(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
27 September 2001 (27.09.2001)

PCT

(10) International Publication Number
WO 01/70979 A2

(51) International Patent Classification[7]: C12N 15/12, C07K 14/47, C12Q 1/68, C07K 16/18, G01N 33/68, 33/574 // A61P 15/08, 35/00

(21) International Application Number: PCT/US01/09126

(22) International Filing Date: 21 March 2001 (21.03.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/191,031	21 March 2000 (21.03.2000)	US
60/207,124	25 May 2000 (25.05.2000)	US
60/211,940	15 June 2000 (15.06.2000)	US
60/216,820	7 July 2000 (07.07.2000)	US
60/220,661	25 July 2000 (25.07.2000)	US
60/257,672	21 December 2000 (21.12.2000)	US

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(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:
— *without international search report and to be republished upon receipt of that report*
— *with sequence listing part of description published separately in electronic form and available upon request from the International Bureau*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 01/70979 A2

(54) Title: NOVEL GENES, COMPOSITIONS, KITS, AND METHOD FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF OVARIAN CANCER

(57) Abstract: The invention relates to compositions, kits, and methods for detecting, characterizing, preventing, and treating human ovarian cancers. A variety of novel markers are provided, wherein changes in the levels of expression of one or more of the markers is correlated with the presence of ovarian cancer.

NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF OVARIAN CANCER

RELATED APPLICATIONS

The present application claims priority to U.S. provisional patent application serial no. 60/191,031 filed on March 21, 2000, U.S. provisional patent application serial no. 60/207,124, filed on May 25, 2000, U.S. provisional patent application serial no. 60/211,940, filed on June 15, 2000, U.S. provisional patent application serial no. 60/216,820, filed on July 7, 2000, U.S. provisional patent application serial no. 60/220,661, filed on July 25, 2000, and U.S. provisional patent application serial no. 60/257,672, filed on December 21, 2000, all of which are expressly incorporated by reference.

FIELD OF THE INVENTION

The field of the invention is ovarian cancer, including diagnosis, characterization, management, and therapy of ovarian cancer.

BACKGROUND OF THE INVENTION

Ovarian cancer is responsible for significant morbidity and mortality in populations around the world. Ovarian cancer is classified, on the basis of clinical and pathological features, in three groups, namely epithelial ovarian cancer (EOC; >90% of ovarian cancer in Western countries), germ cell tumors (*circa* 2-3% of ovarian cancer), and stromal ovarian cancer (*circa* 5% of ovarian cancer; Ozols *et al.*, 1997, *Cancer Principles and Practice of Oncology*, 5th ed., DeVita *et al.*, Eds. pp. 1502). Relative to EOC, germ cell tumors and stromal ovarian cancers are more easily detected and treated at an early stage, translating into higher/better survival rates for patients afflicted with these two types of ovarian cancer.

There are numerous types of ovarian tumors, some of which are benign, and others of which are malignant. Treatment (including non-treatment) options and predictions of patient outcome depend on accurate classification of the ovarian cancer. Ovarian cancers are named according to the type of cells from which the cancer is

derived and whether the ovarian cancer is benign or malignant. Recognized histological tumor types include, for example, serous, mucinous, endometrioid, and clear cell tumors. In addition, ovarian cancers are classified according to recognized grade and stage scales.

In grade I, the tumor tissue is well differentiated from normal ovarian tissue. In grade II, tumor tissue is moderately well differentiated. In grade III, the tumor tissue is poorly differentiated from normal tissue, and this grade correlates with a less favorable prognosis than grades I and II. Stage I is generally confined within the capsule surrounding one (stage IA) or both (stage IB) ovaries, although in some stage I (*i.e.* stage IC) cancers, malignant cells may be detected in ascites, in peritoneal rinse fluid, or on the surface of the ovaries. Stage II involves extension or metastasis of the tumor from one or both ovaries to other pelvic structures. In stage IIA, the tumor extends or has metastasized to the uterus, the fallopian tubes, or both. Stage IIB involves extension of the tumor to the pelvis. Stage IIC is stage IIA or IIB in which malignant cells may be detected in ascites, in peritoneal rinse fluid, or on the surface of the ovaries. In stage III, the tumor comprises at least one malignant extension to the small bowel or the omentum, has formed extrapelvic peritoneal implants of microscopic (stage IIIA) or macroscopic (< 2 centimeter diameter, stage IIIB; > 2 centimeter diameter, stage IIIC) size, or has metastasized to a retroperitoneal or inguinal lymph node (an alternate indicator of stage IIIC). In stage IV, distant (*i.e.* non-peritoneal) metastases of the tumor can be detected.

The durations of the various stages of ovarian cancer are not presently known, but are believed to be at least about a year each (Richart *et al.*, 1969, *Am. J. Obstet. Gynecol.* 105:386). Prognosis declines with increasing stage designation. For example, 5-year survival rates for patients diagnosed with stage I, II, III, and IV ovarian cancer are 80%, 57%, 25%, and 8%, respectively.

Despite being the third most prevalent gynecological cancer, ovarian cancer is the leading cause of death among those afflicted with gynecological cancers. The disproportionate mortality of ovarian cancer is attributable to a substantial absence of symptoms among those afflicted with early-stage ovarian cancer and to difficulty diagnosing ovarian cancer at an early stage. Patients afflicted with ovarian cancer most often present with non-specific complaints, such as abnormal vaginal bleeding,

gastrointestinal symptoms, urinary tract symptoms, lower abdominal pain, and generalized abdominal distension. These patients rarely present with paraneoplastic symptoms or with symptoms which clearly indicate their affliction. Presently, less than about 40% of patients afflicted with ovarian cancer present with stage I or stage II. Management of ovarian cancer would be significantly enhanced if the disease could be detected at an earlier stage, when treatments are much more generally efficacious.

Ovarian cancer may be diagnosed, in part, by collecting a routine medical history from a patient and by performing physical examination, x-ray examination, and chemical and hematological studies on the patient. Hematological tests which may be indicative of ovarian cancer in a patient include analyses of serum levels of proteins designated CA125 and DF3 and plasma levels of lysophosphatidic acid (LPA). Palpation of the ovaries and ultrasound techniques (particularly including endovaginal ultrasound and color Doppler flow ultrasound techniques) can aid detection of ovarian tumors and differentiation of ovarian cancer from benign ovarian cysts. However, a definitive diagnosis of ovarian cancer typically requires performing exploratory laparotomy of the patient.

Potential tests for the detection of ovarian cancer (*e.g.*, screening, reflex or monitoring) may be characterized by a number of factors. The "sensitivity" of an assay refers to the probability that the test will yield a positive result in an individual afflicted with ovarian cancer. The "specificity" of an assay refers to the probability that the test will yield a negative result in an individual not afflicted with ovarian cancer. The "positive predictive value" (PPV) of an assay is the ratio of true positive results (*i.e.* positive assay results for patients afflicted with ovarian cancer) to all positive results (*i.e.* positive assay results for patients afflicted with ovarian cancer + positive assay results for patients not afflicted with ovarian cancer). It has been estimated that in order for an assay to be an appropriate population-wide screening tool for ovarian cancer the assay must have a PPV of at least about 10% (Rosenthal *et al.*, 1998, *Sem. Oncol.* 25:315-325). It would thus be desirable for a screening assay for detecting ovarian cancer in patients to have a high sensitivity and a high PPV. Monitoring and reflex tests would also require appropriate specifications.

Owing to the cost, limited sensitivity, and limited specificity of known methods of detecting ovarian cancer, screening is not presently performed for the general population. In addition, the need to perform laparotomy in order to diagnose ovarian cancer in patients who screen positive for indications of ovarian cancer limits the desirability of population-wide screening, such that a PPV even greater than 10% would be desirable.

Prior use of serum CA125 level as a diagnostic marker for ovarian cancer indicated that this method exhibited insufficient specificity for use as a general screening method. Use of a refined algorithm for interpreting CA125 levels in serial retrospective samples obtained from patients improved the specificity of the method without shifting detection of ovarian cancer to an earlier stage (Skakes, 1995, *Cancer* 76:2004). Screening for LPA to detect gynecological cancers including ovarian cancer exhibited a sensitivity of about 96% and a specificity of about 89%. However, CA125-based screening methods and LPA-based screening methods are hampered by the presence of CA125 and LPA, respectively, in the serum of patients afflicted with conditions other than ovarian cancer. For example, serum CA125 levels are known to be associated with menstruation, pregnancy, gastrointestinal and hepatic conditions such as colitis and cirrhosis, pericarditis, renal disease, and various non-ovarian malignancies. Serum LPA is known, for example, to be affected by the presence of non-ovarian gynecological malignancies. A screening method having a greater specificity for ovarian cancer than the current screening methods for CA125 and LPA could provide a population-wide screening for early stage ovarian cancer.

Presently greater than about 60% of ovarian cancers diagnosed in patients are stage III or stage IV cancers. Treatment at these stages is largely limited to cytoreductive surgery (when feasible) and chemotherapy, both of which aim to slow the spread and development of metastasized tumor. Substantially all late stage ovarian cancer patients currently undergo combination chemotherapy as primary treatment, usually a combination of a platinum compound and a taxane. Median survival for responding patients is about one year. Combination chemotherapy involving agents such as doxorubicin, cyclophosphamide, cisplatin, hexamethylmelamine, paclitaxel, and methotrexate may improve survival rates in these groups, relative to single-agent therapies. Various recently-developed chemotherapeutic agents and treatment regimens

have also demonstrated usefulness for treatment of advanced ovarian cancer. For example, use of the topoisomerase I inhibitor topectan, use of amifostine to minimize chemotherapeutic side effects, and use of intraperitoneal chemotherapy for patients having peritoneally implanted tumors have demonstrated at least limited utility. Presently, however, the 5-year survival rate for patients afflicted with stage III ovarian cancer is 25%, and the survival rate for patients afflicted with stage IV ovarian cancer is 8%.

In summary, the earlier ovarian cancer is detected, the aggressiveness of therapeutic intervention and the side effects associated with therapeutic intervention are minimized. More importantly, the earlier the cancer is detected, the survival rate and quality of life of ovarian cancer patients is enhanced. Thus, a pressing need exists for methods of detecting ovarian cancer as early as possible. There also exists a need for methods of detecting recurrence of ovarian cancer as well as methods for predicting and monitoring the efficacy of treatment. The present invention satisfies these needs.

SUMMARY OF THE INVENTION

The invention relates to novel genes associated with ovarian cancer as well as methods of assessing whether a patient is afflicted with ovarian cancer. This method comprises the step of comparing the level of expression of a marker in a patient sample, wherein the marker is listed in Tables 1-2, and the normal level of expression of the marker in a control, *e.g.*, a sample from a patient without ovarian cancer. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with ovarian cancer. Preferably, a protein corresponding to the marker is a secreted protein. Alternatively, the marker can correspond to a protein having an extracellular portion, to one which is normally expressed in ovarian tissue at a detectable level, or both.

In one method, the marker(s) are preferably selected such that the positive predictive value of the method is at least about 10%. Also preferred are embodiments of the method wherein the marker is over- or under-expressed by at least two-fold in at least about 20% of stage I ovarian cancer patients, stage II ovarian cancer patients, stage III ovarian cancer patients, stage IV ovarian cancer patients, grade I ovarian cancer patients, grade II ovarian cancer patients, grade III ovarian cancer patients, epithelial

ovarian cancer patients, stromal ovarian cancer patients, germ cell ovarian cancer patients, malignant ovarian cancer patients, benign ovarian patients, serous neoplasm ovarian cancer patients, mucinous neoplasm ovarian cancer patients, endometrioid neoplasm ovarian cancer patients and/or clear cell neoplasm ovarian cancer patients.

In one embodiment of the methods of the present invention, the patient sample is an ovary-associated body fluid. Such fluids include, for example, blood fluids, lymph, ascitic fluids, gynecological fluids, cystic fluids, urine, and fluids collected by peritoneal rinsing. In another embodiment, the sample comprises cells obtained from the patient. In this embodiment, the cells may be found in a fluid selected from the group consisting of a fluid collected by peritoneal rinsing, a fluid collected by uterine rinsing, a uterine fluid, a uterine exudate, a pleural fluid, and an ovarian exudate. In another embodiment, the patient sample is *in vivo*.

In accordance with the methods of the present invention, the level of expression of the marker in a sample can be assessed, for example, by detecting the presence in the sample of :

- a protein corresponding to the marker or fragment of the protein (*e.g.* using a reagent, such as an antibody, an antibody derivative, or an antibody fragment, which binds specifically with the protein)
- a transcribed polynucleotide (*e.g.* an mRNA or a cDNA), or fragment thereof, having at least a portion with which the marker is substantially homologous (*e.g.* by contacting a mixture of transcribed polynucleotides obtained from the sample with a substrate having one or more of the markers listed in Tables 1-2 fixed thereto at selected positions)
- a transcribed polynucleotide or fragment thereof, wherein the polynucleotide anneals with the marker under stringent hybridization conditions.
- a metabolite which is produced directly (*i.e.*, catalyzed) or indirectly by a protein corresponding to the marker

The methods of the present invention are particularly useful for patients with an identified pelvic mass or symptoms associated with ovarian cancer. The methods of the present invention can also be of particular use with patients having an enhanced risk of developing ovarian cancer (*e.g.*, patients having a familial history of ovarian cancer,

patients identified as having a mutant oncogene, and patients at least about 50 years of age). The methods of the present invention may further be of particular use in monitoring the efficacy of treatment of an ovarian cancer patient (*e.g.* the efficacy of chemotherapy).

The methods of the present invention may be performed using a plurality (*e.g.* 2, 3, 5, or 10 or more) of markers. According to a method involving a plurality of markers, the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-2 is compared with the normal level of expression of each of the plurality of markers in samples of the same type obtained from control humans not afflicted with ovarian cancer. The markers of Tables 1-2 may also be used in combination with known ovarian cancer markers in the methods of the present invention.

In a preferred method of assessing whether a patient is afflicted with ovarian cancer (*e.g.,* new detection ("screening"), detection of recurrence, reflex testing), the method comprises comparing:

a) the level of expression of a marker in a patient sample, wherein at least one marker is selected from the markers of Tables 1-2, and

b) the normal level of expression of the marker in a control non-ovarian cancer sample.

A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with ovarian cancer.

The methods of the present invention further include a method of assessing the efficacy of a test compound for inhibiting ovarian cancer in a patient. This method comprises comparing:

a) expression of a marker in a first sample obtained from the patient and maintained in the presence of the test compound, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and

b) expression of the marker in a second sample obtained from the patient and maintained in the absence of the test compound.

A significant difference between the level of expression of the marker in the first sample, relative to the second sample, is an indication that the test compound is efficacious for inhibiting ovarian cancer in the patient. For example, the first and second samples can be portions of a single sample obtained from the patient or portions of pooled samples obtained from the patient.

The invention further relates to a method of assessing the efficacy of a therapy for inhibiting ovarian cancer in a patient. This method comprises comparing:

a) expression of a marker in a first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and

b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy.

A significant difference between the level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting ovarian cancer in the patient.

It will be appreciated that in these methods the "therapy" may be any traditional therapy for treating ovarian cancer including, but not limited to, chemotherapy, radiation therapy and surgical removal of tissue, *e.g.,* an ovarian tumor. Thus, the methods of the invention may be used to evaluate a patient before, during and after thereapy, for example, to evaluate the reduction in tumor burden.

The present invention therefore further comprises a method for monitoring the progression of ovarian cancer in a patient, the method comprising:

a) detecting in a patient sample at a first time point, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2;

b) repeating step a) at a subsequent time point in time; and

c) comparing the level of expression detected in steps a) and b), and therefrom monitoring the progression of ovarian cancer in the patient.

The invention also includes a method of selecting a composition for inhibiting ovarian cancer in a patient. This method comprises the steps of:

a) obtaining a sample comprising cancer cells from the patient;

b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;

c) comparing expression of a marker listed in Tables 1-2 in each of the aliquots; and

d) selecting one of the test compositions which alters the level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

In addition, the invention includes a method of inhibiting ovarian cancer in a patient. This method comprises the steps of:

a) obtaining a sample comprising cancer cells from the patient;

b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;

c) comparing expression of a marker listed in Tables 1-2 in each of the aliquots; and

d) administering to the patient at least one of the test compositions which alters the level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

The invention also includes a kit for assessing whether a patient is afflicted with ovarian cancer. This kit comprises reagents for assessing expression of a marker listed in Tables 1-2.

In another aspect, the invention relates to a kit for assessing the suitability of each of a plurality of compounds for inhibiting an ovarian cancer in a patient. The kit comprises a reagent for assessing expression of a marker listed in Tables 1-2, and may also comprise a plurality of compounds.

In another aspect, the invention relates to a kit for assessing the presence of ovarian cancer cells. This kit comprises an antibody, wherein the antibody binds specifically with a protein corresponding to a marker listed in Tables 1-2. The kit may also comprise a plurality of antibodies, wherein the plurality binds specifically with a protein corresponding to a different marker listed in Tables 1-2.

The invention also includes a kit for assessing the presence of ovarian cancer cells, wherein the kit comprises a nucleic acid probe. The probe binds specifically with a transcribed polynucleotide corresponding to a marker listed in Tables 1-2. The kit

may also comprise a plurality of probes, wherein each of the probes binds specifically with a transcribed polynucleotide corresponding to a different marker listed in Tables 1-2.

The invention further relates to a method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with ovarian cancer. The method comprises isolating a protein corresponding to a marker listed in Tables 1-2, immunizing a mammal using the isolated protein, isolating splenocytes from the immunized mammal, fusing the isolated splenocytes with an immortalized cell line to form hybridomas, and screening individual hybridomas for production of an antibody which specifically binds with the protein to isolate the hybridoma. The invention also includes an antibody produced by this method.

The invention further includes a method of assessing the ovarian carcinogenic potential of a test compound. This method comprises the steps of:

a) maintaining separate aliquots of ovarian cells in the presence and absence of the test compound; and

b) comparing expression of a marker in each of the aliquots.

The marker is selected from those listed in Tables 1-2. A significantly altered level of expression of the marker in the aliquot maintained in the presence of (or exposed to) the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound possesses ovarian carcinogenic potential.

Additionally, the invention includes a kit for assessing the ovarian carcinogenic potential of a test compound. The kit comprises ovarian cells and a reagent for assessing expression of a marker in each of the aliquots. The marker is selected from those listed in Tables 1-2.

The invention further relates to a method of treating a patient afflicted with ovarian cancer or at risk of developing ovarian cancer. This method comprises enhancing expression of a marker listed in Tables 1-2 or providing to cells of the patient a protein corresponding to a marker listed in Tables 1-2, wherein the marker is underexpressed in patients afflicted with ovarian cancer. The protein can be provided to the cells, for example, by providing a vector comprising a polynucleotide encoding the protein to the cells.

The invention includes another method of treating a patient afflicted with ovarian cancer or at risk of developing ovarian cancer. This method comprises inhibiting expression or overexpression of a marker listed in Tables 1-2 by, *e.g.*, providing to cells of the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker listed in Tables 1-2, wherein the marker is overexpressed in patients afflicted with ovarian cancer.

It will be appreciated that the methods and kits of the present invention may also include known cancer markers including known ovarian cancer markers. It will further be appreciated that the methods and kits may be used to identify cancers other than ovarian cancer.

DETAILED DESCRIPTION OF THE INVENTION

The invention relates to newly discovered genes associated with the cancerous state of ovarian cells. It has been discovered that the level of expression of individual genes, also referred to as markers, and combinations of these genes, correlates with the presence of ovarian cancer in a patient. Methods are provided for detecting the presence of ovarian cancer in a sample, the absence of ovarian cancer in a sample, the stage of an ovarian cancer, and with other characteristics of ovarian cancer that are relevant to prevention, diagnosis, characterization, and therapy of ovarian cancer in a patient.

Definitions

As used herein, each of the following terms has the meaning associated with it in this section.

The articles "a" and "an" are used herein to refer to one or to more than one (*i.e.* to at least one) of the grammatical object of the article. By way of example, "an element" means one element or more than one element.

A "marker" is a naturally-occurring polymer corresponding to at least one of the novel nucleic acids listed in Tables 1-2. For example, markers include, without limitation, sense and anti-sense strands of genomic DNA (*i.e.* including any introns occurring therein), RNA generated by transcription of genomic DNA (*i.e.* prior to splicing), RNA generated by splicing of RNA transcribed from genomic DNA, and proteins generated by translation of spliced RNA (*i.e.* including proteins both before and

after cleavage of normally cleaved regions such as transmembrane signal sequences). As used herein, "marker" may also include a cDNA made by reverse transcription of an RNA generated by transcription of genomic DNA (including spliced RNA).

The term "probe" refers to any molecule which is capable of selectively binding to a specifically intended target molecule, for example a marker of the invention. Probes can be either synthesized by one skilled in the art, or derived from appropriate biological preparations. For purposes of detection of the target molecule, probes may be specifically designed to be labeled, as described herein. Examples of molecules that can be utilized as probes include, but are not limited to, RNA, DNA, proteins, antibodies, and organic monomers.

An "ovary-associated" body fluid is a fluid which, when in the body of a patient, contacts or passes through ovarian cells or into which cells or proteins shed from ovarian cells *e.g,.* ovarian epithelium, are capable of passing. Exemplary ovary-associated body fluids include blood fluids, lymph, ascites, gynecological fluids, cystic fluid, urine, and fluids collected by peritoneal rinsing.

The "normal" level of expression of a marker is the level of expression of the marker in ovarian cells of a patient, *e.g.* a human, not afflicted with ovarian cancer.

"Over-expression" and "under-expression" of a marker refer to expression of the marker of a patient at a greater or lesser level, respectively, than normal level of expression of the marker (*e.g.* at least two-fold greater or lesser level).

As used herein, the term "promoter/regulatory sequence" means a nucleic acid sequence which is required for expression of a gene product operably linked to the promoter/regulatory sequence. In some instances, this sequence may be the core promoter sequence and in other instances, this sequence may also include an enhancer sequence and other regulatory elements which are required for expression of the gene product. The promoter/regulatory sequence may, for example, be one which expresses the gene product in a tissue-specific manner.

A "constitutive" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell under most or all physiological conditions of the cell.

An "inducible" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only when an inducer which corresponds to the promoter is present in the cell.

A "tissue-specific" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only if the cell is a cell of the tissue type corresponding to the promoter.

A "transcribed polynucleotide" is a polynucleotide (*e.g.* an RNA, a cDNA, or an analog of one of an RNA or cDNA) which is complementary to or homologous with all or a portion of a mature RNA made by transcription of a genomic DNA corresponding to a marker of the invention and normal post-transcriptional processing (*e.g.* splicing), if any, of the transcript.

"Complementary" refers to the broad concept of sequence complementarity between regions of two nucleic acid strands or between two regions of the same nucleic acid strand. It is known that an adenine residue of a first nucleic acid region is capable of forming specific hydrogen bonds ("base pairing") with a residue of a second nucleic acid region which is antiparallel to the first region if the residue is thymine or uracil. Similarly, it is known that a cytosine residue of a first nucleic acid strand is capable of base pairing with a residue of a second nucleic acid strand which is antiparallel to the first strand if the residue is guanine. A first region of a nucleic acid is complementary to a second region of the same or a different nucleic acid if, when the two regions are arranged in an antiparallel fashion, at least one nucleotide residue of the first region is capable of base pairing with a residue of the second region. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, when the first and second portions are arranged in an antiparallel fashion, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion. More preferably, all nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion.

"Homologous" as used herein, refers to nucleotide sequence similarity between two regions of the same nucleic acid strand or between regions of two different nucleic acid strands. When a nucleotide residue position in both regions is occupied by the same nucleotide residue, then the regions are homologous at that position. A first region is homologous to a second region if at least one nucleotide residue position of each region is occupied by the same residue. Homology between two regions is expressed in terms of the proportion of nucleotide residue positions of the two regions that are occupied by the same nucleotide residue. By way of example, a region having the nucleotide sequence 5'-ATTGCC-3' and a region having the nucleotide sequence 5'-TATGGC-3' share 50% homology. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residue positions of each of the portions are occupied by the same nucleotide residue. More preferably, all nucleotide residue positions of each of the portions are occupied by the same nucleotide residue.

A marker is "fixed" to a substrate if it is covalently or non-covalently associated with the substrate such the substrate can be rinsed with a fluid (*e.g.* standard saline citrate, pH 7.4) without a substantial fraction of the marker dissociating from the substrate.

As used herein, a "naturally-occurring" nucleic acid molecule refers to an RNA or DNA molecule having a nucleotide sequence that occurs in nature (*e.g.* encodes a natural protein).

Expression of a marker in a patient is "significantly" higher or lower than the normal level of expression of a marker if the level of expression of the marker is greater or less, respectively, than the normal level by an amount greater than the standard error of the assay employed to assess expression, and preferably at least twice, and more preferably three, four, five or ten times that amount. Alternately, expression of the marker in the patient can be considered "significantly" higher or lower than the normal level of expression if the level of expression is at least about two, and preferably at least about three, four, or five times, higher or lower, respectively, than the normal level of expression of the marker.

Ovarian cancer is "inhibited" if at least one symptom of the cancer is alleviated, terminated, slowed, or prevented. As used herein, ovarian cancer is also "inhibited" if recurrence or metastasis of the cancer is reduced, slowed, delayed, or prevented.

A kit is any manufacture (*e.g.* a package or container) comprising at least one reagent, *e.g.* a probe, for specifically detecting a marker of the invention, the manufacture being promoted, distributed, or sold as a unit for performing the methods of the present invention.

Description

The present invention is based, in part, on identification of novel markers which are over-expressed in ovarian cancer cells as compared to their expression in normal (*i.e.* non- cancerous) ovarian cells. The markers of the invention correspond to DNA, RNA, and polypeptide molecules which can be detected in one or both of normal and cancerous ovarian cells. The enhanced expression of one or more of these markers in ovarian cells is herein correlated with the cancerous state of the tissue. The invention thus includes compositions, kits, and methods for assessing the cancerous state of ovarian cells (*e.g.* cells obtained from a human, cultured human cells, archived or preserved human cells and *in vivo* cells).

The compositions, kits, and methods of the invention have the following uses, among others:

1) assessing whether a patient is afflicted with ovarian cancer;
2) assessing the stage of ovarian cancer in a human patient;
3) assessing the grade of ovarian cancer in a patient;
4) assessing the benign or malignant nature of ovarian cancer in a patient;
5) assessing the histological type of neoplasm (*e.g.* serous, mucinous, endometroid, or clear cell neoplasm) associated with ovarian cancer in a patient;
6) making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with ovarian cancer;
7) assessing the presence of ovarian cancer cells;
8) assessing the efficacy of one or more test compounds for inhibiting ovarian cancer in a patient;

9) assessing the efficacy of a therapy for inhibiting ovarian cancer in a patient;

10) monitoring the progression of ovarian cancer in a patient;

11) selecting a composition or therapy for inhibiting ovarian cancer in a patient;

12) treating a patient afflicted with ovarian cancer;

13) inhibiting ovarian cancer in a patient;

14) assessing the ovarian carcinogenic potential of a test compound; and

15) inhibiting an ovarian cancer in a patient at risk for developing ovarian cancer.

The invention thus includes a method of assessing whether a patient is afflicted with ovarian cancer. This method comprises comparing the level of expression of a marker in a patient sample and the normal level of expression of the marker in a control, *e.g.*, a non-ovarian cancer sample. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with ovarian cancer. The marker is selected from the group consisting of the markers listed in Tables 1-2.

The polynucleotides set forth in Tables 1-2 represent previously unidentified nucleotide sequences. These nucleotide sequences were identified through subtracted library experiments described herein. Also provided by this invention are polynucleotides that correspond to the polynucleotides of Tables 1-2. In one embodiment, these polynucleotides are obtained by identification of a larger fragment or full-length coding sequence of these polynucleotides. Gene delivery vehicles, host cells, compositions and databases (all described herein) containing these polynucleotides are also provided by this invention.

Any marker or combination of markers listed in Tables 1-2, as well as any known markers in combination with the markers set forth in Tables 1-2, may be used in the compositions, kits, and methods of the present invention. In general, it is preferable to use markers for which the difference between the level of expression of the marker in ovarian cancer cells and the level of expression of the same marker in normal ovarian

cells is as great as possible. Although this difference can be as small as the limit of detection of the method for assessing expression of the marker, it is preferred that the difference be at least greater than the standard error of the assessment method, and preferably a difference of at least 2-, 3-, 4-, 5-, 6-, 7-, 8-, 9-, 10-, 15-, 20-, 25-, 100-, 500-, 1000-fold or greater.

It is recognized that certain markers correspond to proteins which are secreted from ovarian cells (*i.e.* one or both of normal and cancerous cells) to the extracellular space surrounding the cells. These markers are preferably used in certain embodiments of the compositions, kits, and methods of the invention, owing to the fact that the protein corresponding to each of these markers can be detected in an ovary-associated body fluid sample, which may be more easily collected from a human patient than a tissue biopsy sample. In addition, preferred *in vivo* techniques for detection of a protein corresponding to a marker of the invention include introducing into a subject a labeled antibody directed against the protein. For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

It is a simple matter for the skilled artisan to determine whether any particular marker corresponds to a secreted protein. In order to make this determination, the protein corresponding to a marker is expressed in a test cell (*e.g.* a cell of an ovarian cell line), extracellular fluid is collected, and the presence or absence of the protein in the extracellular fluid is assessed (*e.g.* using a labeled antibody which binds specifically with the protein).

The following is an example of a method which can be used to detect secretion of a protein corresponding to a marker of the invention. About 8×10^5 293T cells are incubated at 37°C in wells containing growth medium (Dulbecco's modified Eagle's medium {DMEM} supplemented with 10% fetal bovine serum) under a 5% (v/v) CO_2, 95% air atmosphere to about 60-70% confluence. The cells are then transfected using a standard transfection mixture comprising 2 micrograms of DNA comprising an expression vector encoding the protein and 10 microliters of LipofectAMINE™ (GIBCO/BRL Catalog no. 18342-012) per well. The transfection mixture is maintained for about 5 hours, and then replaced with fresh growth medium and maintained in an air atmosphere. Each well is gently rinsed twice with DMEM which does not contain

methionine or cysteine (DMEM-MC; ICN Catalog no. 16-424- 54). About 1 milliliter of DMEM-MC and about 50 microcuries of Trans-^{35}S™ reagent (ICN Catalog no. 51006) are added to each well. The wells are maintained under the 5% CO_2 atmosphere described above and incubated at 37°C for a selected period. Following incubation, 150 microliters of conditioned medium is removed and centrifuged to remove floating cells and debris. The presence of the protein in the supernatant is an indication that the protein is secreted.

Examples of ovary-associated body fluids include blood fluids (*e.g.* whole blood, blood serum, blood having platelets removed therefrom, etc.), lymph, ascitic fluids, gynecological fluids (*e.g.* ovarian, fallopian, and uterine secretions, menses, vaginal douching fluids, fluids used to rinse cervical cell samples, etc.), cystic fluid, urine, and fluids collected by peritoneal rinsing (*e.g.* fluids applied and collected during laparoscopy or fluids instilled into and withdrawn from the peritoneal cavity of a human patient). In these embodiments, the level of expression of the marker can be assessed by assessing the amount (*e.g.* absolute amount or concentration) of the marker in an ovary-associated body fluid obtained from a patient. The fluid can, of course, be subjected to a variety of well-known post-collection preparative and storage techniques (*e.g.* storage, freezing, ultrafiltration, concentration, evaporation, centrifugation, etc.) prior to assessing the amount of the marker in the fluid.

Many ovary-associated body fluids (*i.e.* usually excluding urine) can have ovarian cells, *e.g.* ovarian epithelium, therein, particularly when the ovarian cells are cancerous, and, more particularly, when the ovarian cancer is metastasizing. Cell-containing fluids which can contain ovarian cancer cells include, but are not limited to, peritoneal ascites, fluids collected by peritoneal rinsing, fluids collected by uterine rinsing, uterine fluids such as uterine exudate and menses, pleural fluid, and ovarian exudates. Thus, the compositions, kits, and methods of the invention can be used to detect expression of markers corresponding to proteins having at least one portion which is displayed on the surface of cells which express it. Examples of such proteins are indicated in the Tables herein. Although not every protein having at least one cell-surface portion is indicated in the Tables, it is a simple matter for the skilled artisan to determine whether the protein corresponding to any particular marker comprises a cell-surface protein. For example, immunological methods may be used to detect such

proteins on whole cells, or well known computer-based sequence analysis methods (*e.g.* the SIGNALP program; Nielsen *et al.*, 1997, *Protein Engineering* 10:1-6) may be used to predict the presence of at least one extracellular domain (*i.e.* including both secreted proteins and proteins having at least one cell-surface domain). Expression of a marker corresponding to a protein having at least one portion which is displayed on the surface of a cell which expresses it may be detected without necessarily lysing the cell (*e.g.* using a labeled antibody which binds specifically with a cell-surface domain of the protein).

Expression of a marker of the invention may be assessed by any of a wide variety of well known methods for detecting expression of a transcribed molecule or protein. Non-limiting examples of such methods include immunological methods for detection of secreted, cell-surface, cytoplasmic, or nuclear proteins, protein purification methods, protein function or activity assays, nucleic acid hybridization methods, nucleic acid reverse transcription methods, and nucleic acid amplification methods.

In a preferred embodiment, expression of a marker is assessed using an antibody (*e.g.* a radio-labeled, chromophore-labeled, fluorophore-labeled, or enzyme-labeled antibody), an antibody derivative (*e.g.* an antibody conjugated with a substrate or with the protein or ligand of a protein-ligand pair {*e.g.* biotin-streptavidin}), or an antibody fragment (*e.g.* a single-chain antibody, an isolated antibody hypervariable domain, etc.) which binds specifically with a protein corresponding to the marker, such as the protein encoded by the open reading frame corresponding to the marker or such a protein which has undergone all or a portion of its normal post-translational modification.

In another preferred embodiment, expression of a marker is assessed by preparing mRNA/cDNA (*i.e.* a transcribed polynucleotide) from cells in a patient sample, and by hybridizing the mRNA/cDNA with a reference polynucleotide which is a complement of a polynucleotide comprising the marker, and fragments thereof. cDNA can, optionally, be amplified using any of a variety of polymerase chain reaction methods prior to hybridization with the reference polynucleotide; preferably, it is not amplified. Expression of one or more markers can likewise be detected using quantitative PCR to assess the level of expression of the marker(s). Alternatively, any of the many known methods of detecting mutations or variants (*e.g.* single nucleotide

polymorphisms, deletions, etc.) of a marker of the invention may be used to detect occurrence of a marker in a patient.

In a related embodiment, a mixture of transcribed polynucleotides obtained from the sample is contacted with a substrate having fixed thereto a polynucleotide complementary to or homologous with at least a portion (*e.g.* at least 7, 10, 15, 20, 25, 30, 40, 50, 100, 500, or more nucleotide residues) of a marker of the invention. If polynucleotides complementary to or homologous with are differentially detectable on the substrate (*e.g.* detectable using different chromophores or fluorophores, or fixed to different selected positions), then the levels of expression of a plurality of markers can be assessed simultaneously using a single substrate (*e.g.* a "gene chip" microarray of polynucleotides fixed at selected positions). When a method of assessing marker expression is used which involves hybridization of one nucleic acid with another, it is preferred that the hybridization be performed under stringent hybridization conditions.

Because the compositions, kits, and methods of the invention rely on detection of a difference in expression levels of one or more markers of the invention, it is preferable that the level of expression of the marker is significantly greater than the minimum detection limit of the method used to assess expression in at least one of normal ovarian cells and cancerous ovarian cells.

It is understood that by routine screening of additional patient samples using one or more of the markers of the invention, it will be realized that certain of the markers are over- or under-expressed in cancers of various types, including specific ovarian cancers, as well as other cancers such as breast cancer, cervical cancer, etc. For example, it will be confirmed that some of the markers of the invention are over- or under-expressed in most (*i.e.* 50% or more) or substantially all (*i.e.* 80% or more) of ovarian cancer. Furthermore, it will be confirmed that certain of the markers of the invention are associated with ovarian cancer of various stages (*i.e.* stage I, II, III, and IV ovarian cancers, as well as subclassifications IA, IB, IC, IIA, IIB, IIC, IIIA, IIIB, and IIIC, using the FIGO Stage Grouping system for primary carcinoma of the ovary; 1987, *Am. J. Obstet. Gynecol.* 156:236), of various histologic subtypes (*e.g.* serous, mucinous, endometroid, and clear cell subtypes, as well as subclassifications and alternate classifications adenocarcinoma, papillary adenocarcinoma, papillary cystadenocarcinoma, surface papillary carcinoma, malignant adenofibroma,

cystadenofibroma, adenocarcinoma, cystadenocarcinoma, adenoacanthoma, endometrioid stromal sarcoma, mesodermal (Müllerian) mixed tumor, mesonephroid tumor, malignant carcinoma, Brenner tumor, mixed epithelial tumor, and undifferentiated carcinoma, using the WHO/FIGO system for classification of malignant ovarian tumors; Scully, *Atlas of Tumor Pathology*, 3d series, Washington DC), and various grades (*i.e.* grade I {well differentiated} , grade II {moderately well differentiated}, and grade III {poorly differentiated from surrounding normal tissue}). In addition, as a greater number of patient samples are assessed for expression of the markers of the invention and the outcomes of the individual patients from whom the samples were obtained are correlated, it will also be confirmed that altered expression of certain of the markers of the invention are strongly correlated with malignant cancers and that altered expression of other markers of the invention are strongly correlated with benign tumors. The compositions, kits, and methods of the invention are thus useful for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of ovarian cancer in patients. In addition, these compositions, kits, and methods can be used to detect and differentiate epithelial, stromal, and germ cell ovarian cancers.

When the compositions, kits, and methods of the invention are used for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of ovarian cancer in a patient, it is preferred that the marker or panel of markers of the invention is selected such that a positive result is obtained in at least about 20%, and preferably at least about 40%, 60%, or 80%, and more preferably in substantially all patients afflicted with an ovarian cancer of the corresponding stage, grade, histological type, or benign/malignant nature. Preferably, the marker or panel of markers of the invention is selected such that a PPV of greater than about 10% is obtained for the general population (more preferably coupled with an assay specificity greater than 99.5%).

When a plurality of markers of the invention are used in the compositions, kits, and methods of the invention, the level of expression of each marker in a patient sample can be compared with the normal level of expression of each of the plurality of markers in non-cancerous samples of the same type, either in a single reaction mixture (*i.e.* using reagents, such as different fluorescent probes, for each marker) or in individual reaction mixtures corresponding to one or more of the markers. In one embodiment, a

significantly enhanced level of expression of more than one of the plurality of markers in the sample, relative to the corresponding normal levels, is an indication that the patient is afflicted with ovarian cancer. In another embodiment, a significantly lower level of expression in the sample of each of the plurality of markers, relative to the corresponding normal levels, is an indication that the patient is afflicted with ovarian cancer. In yet another embodiment, a significantly enhanced level of expression of one or more marks and a significantly lower level of expression of one or more markers in a sample relative to the corresponding normal levels, is an indication that the patient is afflicted with ovarian cancer. When a plurality of markers is used, it is preferred that 2, 3, 4, 5, 8, 10, 12, 15, 20, 30, or 50 or more individual markers be used, wherein fewer markers are preferred.

In order to maximize the sensitivity of the compositions, kits, and methods of the invention (*i.e.* by interference attributable to cells of non-ovarian origin in a patient sample), it is preferable that the marker of the invention used therein be a marker which has a restricted tissue distribution, *e.g.,* normally not expressed in a non-epithelial tissue, and more preferably a marker which is normally not expressed in a non-ovarian tissue.

Only a small number of markers are known to be associated with ovarian cancers (*e.g. AKT2*, *Ki-RAS*, *ERBB2*, *c-MYC*, *RB1*, and *TP53*; Lynch, *supra*). These markers are not, of course, included among the markers of the invention, although they may be used together with one or more markers of the invention in a panel of markers, for example. It is well known that certain types of genes, such as oncogenes, tumor suppressor genes, growth factor-like genes, protease-like genes, and protein kinase-like genes are often involved with development of cancers of various types. Thus, among the markers of the invention, use of those which correspond to proteins which resemble known proteins encoded by known oncogenes and tumor suppressor genes, and those which correspond to proteins which resemble growth factors, proteases, and protein kinases are preferred.

Known oncogenes and tumor suppressor genes include, for example, *abl*, *abr*, *akt2*, *apc*, *bcl2α*, *bcl2β*, *bcl3*, *bcr*, *brca1*, *brca2*, *cbl*, *ccnd1*, *cdc42*, *cdk4*, *crk- II*, *csf1r/fms*, *dbl*, *dcc*, *dpc4/smad4*, *e-cad*, *e2f1/rbap*, *egfr/erbb-1*, *elk1*, *elk3*, *eph*, *erg*, *ets1*, *ets2*, *fer*, *fgr/src2*, *fli1/ergb2*, *fos*, *fps/fes*, *fra1*, *fra2*, *fyn*, *hck*, *hek*, *her2/erbb- 2/neu*, *her3/erbb-3*, *her4/erbb-4*, *hras1*, *hst2*, *hstf1*, *igfbp2*, *ink4a*, *ink4b*, *int2/fgf3*, *jun*, *junb*, *jund*, *kip2*, *kit*, *kras2a*, *kras2b*, *lck*, *lyn*, *mas*, *max*, *mcc*, *mdm2*, *met*, *mlh1*, *mmp10*, *mos*,

msh2, *msh3*, *msh6*, *myb*, *myba*, *mybb*, *myc*, *mycl1*, *mycn*, *nf1*, *nf2*, *nme2*, *nras*, *p53*, *pdgfb*, *phb*, *pim1*, *pms1*, *pms2*, *ptc*, *pten*, *raf1*, *rap1a*, *rb1*, *rel*, *ret*, *ros1*, *ski*, *src1*, *tal1*, *tgfbr2*, *tgfb3*, *tgfbr3*, *thra1*, *thrb*, *tiam1*, *timp3*, *tjp1*, *tp53*, *trk*, *vav*, *vhl*, *vil2*, *waf1*, *wnt1*, *wnt2*, *wt1*, and *yes1* (Hesketh, 1997, In: *The Oncogene and Tumour Suppressor Gene Facts Book*, 2nd Ed., Academic Press; Fishel *et al.*, 1994, *Science* 266:1403-1405).

Known growth factors include platelet-derived growth factor alpha, platelet-derived growth factor beta (simian sarcoma viral {v-sis} oncogene homolog), thrombopoietin (myeloproliferative leukemia virus oncogene ligand, megakaryocyte growth and development factor), erythropoietin, B cell growth factor, macrophage stimulating factor 1 (hepatocyte growth factor-like protein), hepatocyte growth factor (hepapoietin A), insulin-like growth factor 1 (somatomedia C), hepatoma-derived growth factor, amphiregulin (schwannoma-derived growth factor), bone morphogenetic proteins 1, 2, 3, 3 beta, and 4, bone morphogenetic protein 7 (osteogenic protein 1), bone morphogenetic protein 8 (osteogenic protein 2), connective tissue growth factor, connective tissue activation peptide 3, epidermal growth factor (EGF), teratocarcinoma-derived growth factor 1, endothelin, endothelin 2, endothelin 3, stromal cell-derived factor 1, vascular endothelial growth factor (VEGF), VEGF-B, VEGF-C, placental growth factor (vascular endothelial growth factor-related protein), transforming growth factor alpha, transforming growth factor beta 1 and its precursors, transforming growth factor beta 2 and its precursors, fibroblast growth factor 1 (acidic), fibroblast growth factor 2 (basic), fibroblast growth factor 5 and its precursors, fibroblast growth factor 6 and its precursors, fibroblast growth factor 7 (keratinocyte growth factor), fibroblast growth factor 8 (androgen-induced), fibroblast growth factor 9 (glia-activating factor), pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1), brain-derived neurotrophic factor, and recombinant glial growth factor 2.

Known proteases include interleukin-1 beta convertase and its precursors, Mch6 and its precursors, Mch2 isoform alpha, Mch4, Cpp32 isoform alpha, Lice2 gamma cysteine protease, Ich-1S, Ich-1L, Ich-2 and its precursors, TY protease, matrix metalloproteinase 1 (interstitial collagenase), matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IV collagenase), matrix metalloproteinase 7 (matrilysin), matrix metalloproteinase 8 (neutrophil collagenase), matrix metalloproteinase 12 (macrophage elastase), matrix metalloproteinase 13 (collagenase 3), metallopeptidase 1,

cysteine-rich metalloprotease (disintegrin) and its precursors, subtilisin-like protease Pc8 and its precursors, chymotrypsin, snake venom-like protease, cathepsin l, cathepsin D (lysosomal aspartyl protease), stromelysin, aminopeptidase N, plasminogen, tissue plasminogen activator, plasminogen activator inhibitor type II, and urokinase-type plasminogen activator.

Known protein kinases include DAP kinase, serine/threonine protein kinases NIK, PK428, Krs-2, SAK, and EMK, interferon-inducible double stranded RNA dependent protein kinase, FAST kinase, AIM1, IPL1-like midbody-associated protein kinase-1, NIMA-like protein kinase 1 (NLK1), the cyclin-dependent kinases (cdk1-10), checkpoint kinase Chk1, Nek3 protein kinase, BMK1 beta kinase, Clk1, Clk2, Clk3, extracellular signal-regulated kinases 1, 3, and 6, cdc28 protein kinase 1, cdc28 protein kinase 2, pLK, Myt1, c-Jun N-terminal kinase 2, Cam kinase 1, the MAP kinases, insulin-stimulated protein kinase 1, beta-adrenergic receptor kinase 2, ribosomal protein S6 kinase, kinase suppressor of ras-1 (KSR1), putative serine/threonine protein kinase Prk, PkB kinase, cAMP-dependent protein kinase, cGMP-dependent protein kinase, type II cGMP-dependent protein kinase, protein kinases Dyrk2, Dyrk3, and Dyrk4, Rho-associated coiled-coil containing protein kinase p160ROCK, protein tyrosine kinase t-Ror1, Ste20-related kinases, cell adhesion kinase beta, protein kinase 3, stress-activated protein kinase 4, protein kinase Zpk, serine kinase hPAK65, dual specificity mitogen-activated protein kinases 1 and 2, casein kinase I gamma 2, p21-activated protein kinase Pak1, lipid-activated protein kinase PRK2, focal adhesion kinase, dual-specificity tyrosine-phosphorylation regulated kinase, myosin light chain kinase, serine kinases SRPK2, TESK1, and VRK2, B lymphocyte serine/threonine protein kinase, stress-activated protein kinases JNK1 and JNK2, phosphorylase kinase, protein tyrosine kinase Tec, Jak2 kinase, protein kinase Ndr, MEK kinase 3, SHB adaptor protein (a Src homology 2 protein), agammaglobulinaemia protein-tyrosine kinase (Atk), protein kinase ATR, guanylate kinase 1, thrombopoeitin receptor and its precursors, DAG kinase epsilon, and kinases encoded by oncogenes or viral oncogenes such as v-fgr (Gardner-Rasheed), v-abl (Abelson murine leukemia viral oncogene homolog 1), v-arg (Abelson murine leukemia viral oncogene homolog, Abelson-related gene), v-fes and v-fps (feline sarcoma viral oncogene and Fujinami avian sarcoma viral oncogene homologs), proto-oncogene c-*cot*, oncogene *pim*-1, and oncogene *mas1*.

It is recognized that the compositions, kits, and methods of the invention will be of particular utility to patients having an enhanced risk of developing ovarian cancer and their medical advisors. Patients recognized as having an enhanced risk of developing ovarian cancer include, for example, patients having a familial history of ovarian cancer, patients identified as having a mutant oncogene (*i.e.* at least one allele), and patients of advancing age (*i.e.* women older than about 50 or 60 years).

The level of expression of a marker in normal (*i.e.* non-cancerous) human ovarian tissue can be assessed in a variety of ways. In one embodiment, this normal level of expression is assessed by assessing the level of expression of the marker in a portion of ovarian cells which appears to be non-cancerous and by comparing this normal level of expression with the level of expression in a portion of the ovarian cells which is suspected of being cancerous. For example, when laparoscopy or other medical procedure, reveals the presence of a lump on one portion of a patient's ovary, but not on another portion of the same ovary or on the other ovary, the normal level of expression of a marker may be assessed using one or both or the non-affected ovary and a non-affected portion of the affected ovary, and this normal level of expression may be compared with the level of expression of the same marker in an affected portion (*i.e.* the lump) of the affected ovary. Alternately, and particularly as further information becomes available as a result of routine performance of the methods described herein, population-average values for normal expression of the markers of the invention may be used. In other embodiments, the 'normal' level of expression of a marker may be determined by assessing expression of the marker in a patient sample obtained from a non-cancer-afflicted patient, from a patient sample obtained from a patient before the suspected onset of ovarian cancer in the patient, from archived patient samples, and the like.

The invention includes compositions, kits, and methods for assessing the presence of ovarian cancer cells in a sample (*e.g.* an archived tissue sample or a sample obtained from a patient). These compositions, kits, and methods are substantially the same as those described above, except that, where necessary, the compositions, kits, and methods are adapted for use with samples other than patient samples. For example, when the sample to be used is a parafinized, archived human tissue sample, it can be necessary to adjust the ratio of compounds in the compositions of the invention, in the

kits of the invention, or the methods used to assess levels of marker expression in the sample. Such methods are well known in the art and within the skill of the ordinary artisan.

The invention includes a kit for assessing the presence of ovarian cancer cells (*e.g.* in a sample such as a patient sample). The kit comprises a plurality of reagents, each of which is capable of binding specifically with a nucleic acid or polypeptide corresponding to a marker of the invention. Suitable reagents for binding with a polypeptide corresponding to a marker of the invention include antibodies, antibody derivatives, antibody fragments, and the like. Suitable reagents for binding with a nucleic acid (*e.g.* a genomic DNA, an mRNA, a spliced mRNA, a cDNA, or the like) include complementary nucleic acids. For example, the nucleic acid reagents may include oligonucleotides (labeled or non-labeled) fixed to a substrate, labeled oligonucleotides not bound with a substrate, pairs of PCR primers, molecular beacon probes, and the like.

The kit of the invention may optionally comprise additional components useful for performing the methods of the invention. By way of example, the kit may comprise fluids (*e.g.* SSC buffer) suitable for annealing complementary nucleic acids or for binding an antibody with a protein with which it specifically binds, one or more sample compartments, an instructional material which describes performance of a method of the invention, a sample of normal ovarian cells, a sample of ovarian cancer cells, and the like.

The invention also includes a method of making an isolated hybridoma which produces an antibody useful for assessing whether patient is afflicted with an ovarian cancer. In this method, a protein corresponding to a marker of the invention is isolated (*e.g.* by purification from a cell in which it is expressed or by transcription and translation of a nucleic acid encoding the protein *in vivo* or *in vitro* using known methods). A vertebrate, preferably a mammal such as a mouse, rat, rabbit, or sheep, is immunized using the isolated protein. The vertebrate may optionally (and preferably) be immunized at least one additional time with the isolated protein, so that the vertebrate exhibits a robust immune response to the protein. Splenocytes are isolated from the immunized vertebrate and fused with an immortalized cell line to form hybridomas, using any of a variety of methods well known in the art. Hybridomas formed in this

manner are then screened using standard methods to identify one or more hybridomas which produce an antibody which specifically binds with the protein. The invention also includes hybridomas made by this method and antibodies made using such hybridomas.

The invention also includes a method of assessing the efficacy of a test compound for inhibiting ovarian cancer cells. As described above, differences in the level of expression of the markers of the invention correlate with the cancerous state of ovarian cells. Although it is recognized that changes in the levels of expression of certain of the markers of the invention likely result from the cancerous state of ovarian cells, it is likewise recognized that changes in the levels of expression of other of the markers of the invention induce, maintain, and promote the cancerous state of those cells. Thus, compounds which inhibit an ovarian cancer in a patient will cause the level of expression of one or more of the markers of the invention to change to a level nearer the normal level of expression for that marker (*i.e.* the level of expression for the marker in non-cancerous ovarian cells).

This method thus comprises comparing expression of a marker in a first ovarian cell sample and maintained in the presence of the test compound and expression of the marker in a second ovarian cell sample and maintained in the absence of the test compound. A significant alteration in the level of expression of a marker listed in Tables 1-2 is an indication that the test compound inhibits ovarian cancer. The ovarian cell samples may, for example, be aliquots of a single sample of normal ovarian cells obtained from a patient, pooled samples of normal ovarian cells obtained from a patient, cells of a normal ovarian cell line, aliquots of a single sample of ovarian cancer cells obtained from a patient, pooled samples of ovarian cancer cells obtained from a patient, cells of an ovarian cancer cell line, or the like. In one embodiment, the samples are ovarian cancer cells obtained from a patient and a plurality of compounds known to be effective for inhibiting various ovarian cancers are tested in order to identify the compound which is likely to best inhibit the ovarian cancer in the patient.

This method may likewise be used to assess the efficacy of a therapy for inhibiting ovarian cancer in a patient. In this method, the level of expression of one or more markers of the invention in a pair of samples (one subjected to the therapy, the other not subjected to the therapy) is assessed. As with the method of assessing the

efficacy of test compounds, if the therapy induces a significant alteration in the level of expression of a marker listed in Tables 1-2 then the therapy is efficacious for inhibiting ovarian cancer. As above, if samples from a selected patient are used in this method, then alternative therapies can be assessed *in vitro* in order to select a therapy most likely to be efficacious for inhibiting ovarian cancer in the patient.

As described herein, ovarian cancer in patients is associated with an altereration in the level of expression of one or more markers listed in Tables 1-2. While, as discussed above, some of these changes in expression level result from occurrence of the ovarian cancer, others of these changes induce, maintain, and promote the cancerous state of ovarian cancer cells. Thus, ovarian cancer characterized by an increase in the level of expression of one or more markers listed in either or both of Tables 1-2 can be inhibited by inhibiting expression of those markers.

Expression of a marker listed in Tables 1-2 can be inhibited in a number of ways generally known in the art. For example, an antisense oligonucleotide can be provided to the ovarian cancer cells in order to inhibit transcription, translation, or both, of the marker(s). Alternately, a polynucleotide encoding an antibody, an antibody derivative, or an antibody fragment, and operably linked with an appropriate promoter/regulator region, can be provided to the cell in order to generate intracellular antibodies which will inhibit the function or activity of the protein corresponding to the marker(s). Using the methods described herein, a variety of molecules, particularly including molecules sufficiently small that they are able to cross the cell membrane, can be screened in order to identify molecules which inhibit expression of the marker(s). The compound so identified can be provided to the patient in order to inhibit expression of the marker(s) in the ovarian cancer cells of the patient.

Expression of a marker listed in Tables 1-2 can be enhanced in a number of ways generally known in the art. For example, a polynucleotide encoding the marker and operably linked with an appropriate promoter/regulator region can be provided to ovarian cancer cells of the patient in order to induce enhanced expression of the protein (and mRNA) corresponding to the marker therein. Alternatively, if the protein is capable of crossing the cell membrane, inserting itself in the cell membrane, or is normally a secreted protein, then expression of the protein can be enhanced by providing

the protein (*e.g.* directly or by way of the bloodstream or another ovary-associated fluid) to ovarian cancer cells in the patient.

As described above, the cancerous state of human ovarian cells is correlated with changes in the levels of expression of the markers of the invention. The invention includes a method for assessing the human ovarian cell carcinogenic potential of a test compound. This method comprises maintaining separate aliquots of human ovarian cells in the presence and absence of the test compound. Expression of a marker of the invention in each of the aliquots is compared. A significant alteration in the level of expression of a marker listed in Tables 1-2 in the aliquot maintained in the presence of the test compound (relative to the aliquot maintained in the absence of the test compound) is an indication that the test compound possesses human ovarian cell carcinogenic potential. The relative carcinogenic potentials of various test compounds can be assessed by comparing the degree of enhancement or inhibition of the level of expression of the relevant markers, by comparing the number of markers for which the level of expression is enhanced or inhibited, or by comparing both.

Various aspects of the invention are described in further detail in the following subsections.

I. Isolated Nucleic Acid Molecules

One aspect of the invention pertains to novel isolated nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention or a portion of such a polypeptide. Isolated nucleic acids of the invention also include nucleic acid molecules sufficient for use as hybridization probes to identify nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention, and fragments of such nucleic acid molecules, *e.g.*, those suitable for use as PCR primers for the amplification or mutation of nucleic acid molecules. As used herein, the term "nucleic acid molecule" is intended to include DNA molecules (*e.g.*, cDNA or genomic DNA) and RNA molecules (*e.g.*, mRNA) and analogs of the DNA or RNA generated using nucleotide analogs. The nucleic acid molecule can be single-stranded or double-stranded, but preferably is double-stranded DNA.

An "isolated" nucleic acid molecule is one which is separated from other nucleic acid molecules which are present in the natural source of the nucleic acid molecule. Preferably, an "isolated" nucleic acid molecule is free of sequences (preferably protein-encoding sequences) which naturally flank the nucleic acid (*i.e.*, sequences located at the 5' and 3' ends of the nucleic acid) in the genomic DNA of the organism from which the nucleic acid is derived. For example, in various embodiments, the isolated nucleic acid molecule can contain less than about 5 kB, 4 kB, 3 kB, 2 kB, 1 kB, 0.5 kB or 0.1 kB of nucleotide sequences which naturally flank the nucleic acid molecule in genomic DNA of the cell from which the nucleic acid is derived. Moreover, an "isolated" nucleic acid molecule, such as a cDNA molecule, can be substantially free of other cellular material, or culture medium when produced by recombinant techniques, or substantially free of chemical precursors or other chemicals when chemically synthesized.

A nucleic acid molecule of the present invention can be isolated using standard molecular biology techniques and the sequence information in the database records described herein. Using all or a portion of such nucleic acid sequences, nucleic acid molecules of the invention can be isolated using standard hybridization and cloning techniques (*e.g.*, as described in Sambrook *et al.*, ed., *Molecular Cloning: A Laboratory Manual, 2nd ed.,* Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1989).

A nucleic acid molecule of the invention can be amplified using cDNA, mRNA, or genomic DNA as a template and appropriate oligonucleotide primers according to standard PCR amplification techniques. The nucleic acid so amplified can be cloned into an appropriate vector and characterized by DNA sequence analysis. Furthermore, oligonucleotides corresponding to all or a portion of a nucleic acid molecule of the invention can be prepared by standard synthetic techniques, *e.g.*, using an automated DNA synthesizer.

In another preferred embodiment, an isolated nucleic acid molecule of the invention comprises a nucleic acid molecule which has a nucleotide sequence complementary to the nucleotide sequence of a nucleic acid corresponding to a marker of the invention or to the nucleotide sequence of a nucleic acid encoding a protein which corresponds to a marker of the invention. A nucleic acid molecule which is complementary to a given nucleotide sequence is one which is sufficiently

complementary to the given nucleotide sequence that it can hybridize to the given nucleotide sequence thereby forming a stable duplex.

Moreover, a nucleic acid molecule of the invention can comprise only a portion of a nucleic acid sequence, wherein the full length nucleic acid sequence comprises a marker of the invention or which encodes a polypeptide corresponding to a marker of the invention. Such nucleic acids can be used, for example, as a probe or primer. The probe/primer typically is used as one or more substantially purified oligonucleotides. The oligonucleotide typically comprises a region of nucleotide sequence that hybridizes under stringent conditions to at least about 7, preferably about 15, more preferably about 25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, or 400 or more consecutive nucleotides of a nucleic acid of the invention.

Probes based on the sequence of a nucleic acid molecule of the invention can be used to detect transcripts or genomic sequences corresponding to one or more markers of the invention. The probe comprises a label group attached thereto, *e.g.*, a radioisotope, a fluorescent compound, an enzyme, or an enzyme co-factor. Such probes can be used as part of a diagnostic test kit for identifying cells or tissues which mis-express the protein, such as by measuring levels of a nucleic acid molecule encoding the protein in a sample of cells from a subject, *e.g.*, detecting mRNA levels or determining whether a gene encoding the protein has been mutated or deleted.

The invention further encompasses nucleic acid molecules that differ, due to degeneracy of the genetic code, from the nucleotide sequence of nucleic acids encoding a protein which corresponds to a marker of the invention, and thus encode the same protein.

It will be appreciated by those skilled in the art that DNA sequence polymorphisms that lead to changes in the amino acid sequence can exist within a population (*e.g.*, the human population). Such genetic polymorphisms can exist among individuals within a population due to natural allelic variation. An allele is one of a group of genes which occur alternatively at a given genetic locus. In addition, it will be appreciated that DNA polymorphisms that affect RNA expression levels can also exist that may affect the overall expression level of that gene (*e.g.*, by affecting regulation or degradation).

As used herein, the phrase "allelic variant" refers to a nucleotide sequence which occurs at a given locus or to a polypeptide encoded by the nucleotide sequence.

As used herein, the terms "gene" and "recombinant gene" refer to nucleic acid molecules comprising an open reading frame encoding a polypeptide corresponding to a marker of the invention. Such natural allelic variations can typically result in 1-5% variance in the nucleotide sequence of a given gene. Alternative alleles can be identified by sequencing the gene of interest in a number of different individuals. This can be readily carried out by using hybridization probes to identify the same genetic locus in a variety of individuals. Any and all such nucleotide variations and resulting amino acid polymorphisms or variations that are the result of natural allelic variation and that do not alter the functional activity are intended to be within the scope of the invention.

In another embodiment, an isolated nucleic acid molecule of the invention is at least 7, 15, 20, 25, 30, 40, 60, 80, 100, 150, 200, 250, 300, 350, 400, 450, 550, 650, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000, 3500, 4000, 4500, or more nucleotides in length and hybridizes under stringent conditions to a nucleic acid corresponding to a marker of the invention or to a nucleic acid encoding a protein corresponding to a marker of the invention. As used herein, the term "hybridizes under stringent conditions" is intended to describe conditions for hybridization and washing under which nucleotide sequences at least 75% (80%, 85%, preferably 90%) identical to each other typically remain hybridized to each other. Such stringent conditions are known to those skilled in the art and can be found in sections 6.3.1-6.3.6 of *Current Protocols in Molecular Biology*, John Wiley & Sons, N.Y. (1989). A preferred, non-limiting example of stringent hybridization conditions for annealing two single-stranded DNA each of which is at least about 100 bases in length and/or for annealing a single-stranded DNA and a single-stranded RNA each of which is at least about 100 bases in length, are hybridization in 6X sodium chloride/sodium citrate (SSC) at about 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 50-65°C. Further preferred hybridization conditions are taught in Lockhart, *et al.,* Nature Biotechnology, Volume 14, 1996 August:1675-1680; Breslauer, *et al.,* Proc. Natl. Acad. Sci. USA, Volume 83, 1986 June: 3746-3750; Van Ness, *et al.,* Nucleic Acids Research, Volume 19, No. 19, 1991 September: 5143-5151; McGraw, *et al.,* BioTechniques,

Volume 8, No. 6 1990: 674-678; and Milner, *et al.*, Nature Biotechnology, Volume 15, 1997 June: 537-541, all expressly incorporated by reference.

In addition to naturally-occurring allelic variants of a nucleic acid molecule of the invention that can exist in the population, the skilled artisan will further appreciate that sequence changes can be introduced by mutation thereby leading to changes in the amino acid sequence of the encoded protein, without altering the biological activity of the protein encoded thereby. For example, one can make nucleotide substitutions leading to amino acid substitutions at "non-essential" amino acid residues. A "non-essential" amino acid residue is a residue that can be altered from the wild-type sequence without altering the biological activity, whereas an "essential" amino acid residue is required for biological activity. For example, amino acid residues that are not conserved or only semi-conserved among homologs of various species may be non-essential for activity and thus would be likely targets for alteration. Alternatively, amino acid residues that are conserved among the homologs of various species (*e.g.*, murine and human) may be essential for activity and thus would not be likely targets for alteration.

Accordingly, another aspect of the invention pertains to nucleic acid molecules encoding a polypeptide of the invention that contain changes in amino acid residues that are not essential for activity. Such polypeptides differ in amino acid sequence from the naturally-occurring proteins which correspond to the markers of the invention, yet retain biological activity. In one embodiment, such a protein has an amino acid sequence that is at least about 40% identical, 50%, 60%, 70%, 80%, 90%, 95%, or 98% identical to the amino acid sequence of one of the proteins which correspond to the markers of the invention.

An isolated nucleic acid molecule encoding a variant protein can be created by introducing one or more nucleotide substitutions, additions or deletions into the nucleotide sequence of nucleic acids of the invention, such that one or more amino acid residue substitutions, additions, or deletions are introduced into the encoded protein. Mutations can be introduced by standard techniques, such as site-directed mutagenesis and PCR-mediated mutagenesis. Preferably, conservative amino acid substitutions are made at one or more predicted non-essential amino acid residues. A "conservative amino acid substitution" is one in which the amino acid residue is replaced with an

amino acid residue having a similar side chain. Families of amino acid residues having similar side chains have been defined in the art. These families include amino acids with basic side chains (*e.g.*, lysine, arginine, histidine), acidic side chains (*e.g.*, aspartic acid, glutamic acid), uncharged polar side chains (*e.g.*, glycine, asparagine, glutamine, serine, threonine, tyrosine, cysteine), non-polar side chains (*e.g.*, alanine, valine, leucine, isoleucine, proline, phenylalanine, methionine, tryptophan), beta-branched side chains (*e.g.*, threonine, valine, isoleucine) and aromatic side chains (*e.g.*, tyrosine, phenylalanine, tryptophan, histidine). Alternatively, mutations can be introduced randomly along all or part of the coding sequence, such as by saturation mutagenesis, and the resultant mutants can be screened for biological activity to identify mutants that retain activity. Following mutagenesis, the encoded protein can be expressed recombinantly and the activity of the protein can be determined.

The present invention encompasses antisense nucleic acid molecules, *i.e.*, molecules which are complementary to a sense nucleic acid of the invention, *e.g.*, complementary to the coding strand of a double-stranded cDNA molecule corresponding to a marker of the invention or complementary to an mRNA sequence corresponding to a marker of the invention. Accordingly, an antisense nucleic acid of the invention can hydrogen bond to (*i.e.* anneal with) a sense nucleic acid of the invention. The antisense nucleic acid can be complementary to an entire coding strand, or to only a portion thereof, *e.g.*, all or part of the protein coding region (or open reading frame). An antisense nucleic acid molecule can also be antisense to all or part of a non-coding region of the coding strand of a nucleotide sequence encoding a polypeptide of the invention. The non-coding regions ("5' and 3' untranslated regions") are the 5' and 3' sequences which flank the coding region and are not translated into amino acids.

An antisense oligonucleotide can be, for example, about 5, 10, 15, 20, 25, 30, 35, 40, 45, or 50 or more nucleotides in length. An antisense nucleic acid of the invention can be constructed using chemical synthesis and enzymatic ligation reactions using procedures known in the art. For example, an antisense nucleic acid (*e.g.*, an antisense oligonucleotide) can be chemically synthesized using naturally occurring nucleotides or variously modified nucleotides designed to increase the biological stability of the molecules or to increase the physical stability of the duplex formed between the antisense and sense nucleic acids, *e.g.*, phosphorothioate derivatives and acridine

substituted nucleotides can be used. Examples of modified nucleotides which can be used to generate the antisense nucleic acid include 5-fluorouracil, 5-bromouracil, 5-chlorouracil, 5-iodouracil, hypoxanthine, xanthine, 4-acetylcytosine, 5-(carboxyhydroxylmethyl) uracil, 5-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluracil, dihydrouracil, beta-D-galactosylqueosine, inosine, N6-isopentenyladenine, 1-methylguanine, 1-methylinosine, 2,2-dimethylguanine, 2-methyladenine, 2-methylguanine, 3-methylcytosine, 5-methylcytosine, N6-adenine, 7-methylguanine, 5-methylaminomethyluracil, 5-methoxyaminomethyl-2-thiouracil, beta-D-mannosylqueosine, 5'-methoxycarboxymethyluracil, 5-methoxyuracil, 2-methylthio-N6-isopentenyladenine, uracil-5-oxyacetic acid (v), wybutoxosine, pseudouracil, queosine, 2-thiocytosine, 5-methyl-2-thiouracil, 2-thiouracil, 4-thiouracil, 5-methyluracil, uracil-5-oxyacetic acid methylester, uracil-5-oxyacetic acid (v), 5-methyl-2-thiouracil, 3-(3-amino-3-N-2-carboxypropyl) uracil, (acp3)w, and 2,6-diaminopurine. Alternatively, the antisense nucleic acid can be produced biologically using an expression vector into which a nucleic acid has been sub-cloned in an antisense orientation (*i.e.*, RNA transcribed from the inserted nucleic acid will be of an antisense orientation to a target nucleic acid of interest, described further in the following subsection).

The antisense nucleic acid molecules of the invention are typically administered to a subject or generated *in situ* such that they hybridize with or bind to cellular mRNA and/or genomic DNA encoding a polypeptide corresponding to a selected marker of the invention to thereby inhibit expression of the marker, *e.g.*, by inhibiting transcription and/or translation. The hybridization can be by conventional nucleotide complementarity to form a stable duplex, or, for example, in the case of an antisense nucleic acid molecule which binds to DNA duplexes, through specific interactions in the major groove of the double helix. Examples of a route of administration of antisense nucleic acid molecules of the invention includes direct injection at a tissue site or infusion of the antisense nucleic acid into an ovary-associated body fluid. Alternatively, antisense nucleic acid molecules can be modified to target selected cells and then administered systemically. For example, for systemic administration, antisense molecules can be modified such that they specifically bind to receptors or antigens expressed on a selected cell surface, *e.g.*, by linking the antisense nucleic acid molecules

to peptides or antibodies which bind to cell surface receptors or antigens. The antisense nucleic acid molecules can also be delivered to cells using the vectors described herein. To achieve sufficient intracellular concentrations of the antisense molecules, vector constructs in which the antisense nucleic acid molecule is placed under the control of a strong pol II or pol III promoter are preferred.

An antisense nucleic acid molecule of the invention can be an α-anomeric nucleic acid molecule. An α-anomeric nucleic acid molecule forms specific double-stranded hybrids with complementary RNA in which, contrary to the usual α-units, the strands run parallel to each other (Gaultier *et al.*, 1987, *Nucleic Acids Res.* 15:6625-6641). The antisense nucleic acid molecule can also comprise a 2'-o-methylribonucleotide (Inoue *et al.*, 1987, *Nucleic Acids Res.* 15:6131-6148) or a chimeric RNA-DNA analogue (Inoue *et al.*, 1987, *FEBS Lett.* 215:327-330).

The invention also encompasses ribozymes. Ribozymes are catalytic RNA molecules with ribonuclease activity which are capable of cleaving a single-stranded nucleic acid, such as an mRNA, to which they have a complementary region. Thus, ribozymes (*e.g.*, hammerhead ribozymes as described in Haselhoff and Gerlach, 1988, *Nature* 334:585-591) can be used to catalytically cleave mRNA transcripts to thereby inhibit translation of the protein encoded by the mRNA. A ribozyme having specificity for a nucleic acid molecule encoding a polypeptide corresponding to a marker of the invention can be designed based upon the nucleotide sequence of a cDNA corresponding to the marker. For example, a derivative of a *Tetrahymena* L-19 IVS RNA can be constructed in which the nucleotide sequence of the active site is complementary to the nucleotide sequence to be cleaved (see Cech *et al.* U.S. Patent No. 4,987,071; and Cech *et al.* U.S. Patent No. 5,116,742). Alternatively, an mRNA encoding a polypeptide of the invention can be used to select a catalytic RNA having a specific ribonuclease activity from a pool of RNA molecules (see, *e.g.*, Bartel and Szostak, 1993, *Science* 261:1411-1418).

The invention also encompasses nucleic acid molecules which form triple helical structures. For example, expression of a polypeptide of the invention can be inhibited by targeting nucleotide sequences complementary to the regulatory region of the gene encoding the polypeptide (*e.g.*, the promoter and/or enhancer) to form triple helical structures that prevent transcription of the gene in target cells. See generally Helene

(1991) *Anticancer Drug Des.* 6(6):569-84; Helene (1992) *Ann. N.Y. Acad. Sci.* 660:27-36; and Maher (1992) *Bioassays* 14(12):807-15.

In various embodiments, the nucleic acid molecules of the invention can be modified at the base moiety, sugar moiety or phosphate backbone to improve, *e.g.*, the stability, hybridization, or solubility of the molecule. For example, the deoxyribose phosphate backbone of the nucleic acids can be modified to generate peptide nucleic acids (see Hyrup *et al.*, 1996, *Bioorganic & Medicinal Chemistry* 4(1): 5-23). As used herein, the terms "peptide nucleic acids" or "PNAs" refer to nucleic acid mimics, *e.g.*, DNA mimics, in which the deoxyribose phosphate backbone is replaced by a pseudopeptide backbone and only the four natural nucleobases are retained. The neutral backbone of PNAs has been shown to allow for specific hybridization to DNA and RNA under conditions of low ionic strength. The synthesis of PNA oligomers can be performed using standard solid phase peptide synthesis protocols as described in Hyrup *et al.* (1996), *supra*; Perry-O'Keefe *et al.* (1996) *Proc. Natl. Acad. Sci. USA* 93:14670-675.

PNAs can be used in therapeutic and diagnostic applications. For example, PNAs can be used as antisense or antigene agents for sequence-specific modulation of gene expression by, *e.g.*, inducing transcription or translation arrest or inhibiting replication. PNAs can also be used, *e.g.*, in the analysis of single base pair mutations in a gene by, *e.g.*, PNA directed PCR clamping; as artificial restriction enzymes when used in combination with other enzymes, *e.g.*, S1 nucleases (Hyrup (1996), *supra*; or as probes or primers for DNA sequence and hybridization (Hyrup, 1996, *supra*; Perry-O'Keefe *et al.*, 1996, *Proc. Natl. Acad. Sci. USA* 93:14670-675).

In another embodiment, PNAs can be modified, *e.g.*, to enhance their stability or cellular uptake, by attaching lipophilic or other helper groups to PNA, by the formation of PNA-DNA chimeras, or by the use of liposomes or other techniques of drug delivery known in the art. For example, PNA-DNA chimeras can be generated which can combine the advantageous properties of PNA and DNA. Such chimeras allow DNA recognition enzymes, *e.g.*, RNASE H and DNA polymerases, to interact with the DNA portion while the PNA portion would provide high binding affinity and specificity. PNA-DNA chimeras can be linked using linkers of appropriate lengths selected in terms of base stacking, number of bonds between the nucleobases, and orientation (Hyrup,

1996, *supra*). The synthesis of PNA-DNA chimeras can be performed as described in Hyrup (1996), *supra,* and Finn *et al.* (1996) *Nucleic Acids Res.* 24(17):3357-63. For example, a DNA chain can be synthesized on a solid support using standard phosphoramidite coupling chemistry and modified nucleoside analogs. Compounds such as 5'-(4-methoxytrityl)amino-5'-deoxy-thymidine phosphoramidite can be used as a link between the PNA and the 5' end of DNA (Mag *et al.,* 1989, *Nucleic Acids Res.* 17:5973-88). PNA monomers are then coupled in a step-wise manner to produce a chimeric molecule with a 5' PNA segment and a 3' DNA segment (Finn *et al.,* 1996, *Nucleic Acids Res.* 24(17):3357-63). Alternatively, chimeric molecules can be synthesized with a 5' DNA segment and a 3' PNA segment (Peterser *et al.,* 1975, *Bioorganic Med. Chem. Lett.* 5:1119-11124).

In other embodiments, the oligonucleotide can include other appended groups such as peptides (*e.g.*, for targeting host cell receptors *in vivo*), or agents facilitating transport across the cell membrane (see, *e.g.*, Letsinger *et al.,* 1989, *Proc. Natl. Acad. Sci. USA* 86:6553-6556; Lemaitre *et al.,* 1987, *Proc. Natl. Acad. Sci. USA* 84:648-652; PCT Publication No. WO 88/09810) or the blood-brain barrier (see, *e.g.*, PCT Publication No. WO 89/10134). In addition, oligonucleotides can be modified with hybridization-triggered cleavage agents (see, *e.g.,* Krol *et al.,* 1988, *Bio/Techniques* 6:958-976) or intercalating agents (see, *e.g.,* Zon, 1988, *Pharm. Res.* 5:539-549). To this end, the oligonucleotide can be conjugated to another molecule, *e.g.*, a peptide, hybridization triggered cross-linking agent, transport agent, hybridization-triggered cleavage agent, etc.

The invention also includes molecular beacon nucleic acids having at least one region which is complementary to a nucleic acid of the invention, such that the molecular beacon is useful for quantitating the presence of the nucleic acid of the invention in a sample. A "molecular beacon" nucleic acid is a nucleic acid comprising a pair of complementary regions and having a fluorophore and a fluorescent quencher associated therewith. The fluorophore and quencher are associated with different portions of the nucleic acid in such an orientation that when the complementary regions are annealed with one another, fluorescence of the fluorophore is quenched by the quencher. When the complementary regions of the nucleic acid are not annealed with

one another, fluorescence of the fluorophore is quenched to a lesser degree. Molecular beacon nucleic acids are described, for example, in U.S. Patent 5,876,930.

II. Isolated Proteins and Antibodies

One aspect of the invention pertains to isolated proteins which correspond to individual markers of the invention, and biologically active portions thereof, as well as polypeptide fragments suitable for use as immunogens to raise antibodies directed against a polypeptide corresponding to a marker of the invention. In one embodiment, the native polypeptide corresponding to a marker can be isolated from cells or tissue sources by an appropriate purification scheme using standard protein purification techniques. In another embodiment, polypeptides corresponding to a marker of the invention are produced by recombinant DNA techniques. Alternative to recombinant expression, a polypeptide corresponding to a marker of the invention can be synthesized chemically using standard peptide synthesis techniques.

An "isolated" or "purified" protein or biologically active portion thereof is substantially free of cellular material or other contaminating proteins from the cell or tissue source from which the protein is derived, or substantially free of chemical precursors or other chemicals when chemically synthesized. The language "substantially free of cellular material" includes preparations of protein in which the protein is separated from cellular components of the cells from which it is isolated or recombinantly produced. Thus, protein that is substantially free of cellular material includes preparations of protein having less than about 30%, 20%, 10%, or 5% (by dry weight) of heterologous protein (also referred to herein as a "contaminating protein"). When the protein or biologically active portion thereof is recombinantly produced, it is also preferably substantially free of culture medium, *i.e.*, culture medium represents less than about 20%, 10%, or 5% of the volume of the protein preparation. When the protein is produced by chemical synthesis, it is preferably substantially free of chemical precursors or other chemicals, *i.e.*, it is separated from chemical precursors or other chemicals which are involved in the synthesis of the protein. Accordingly such preparations of the protein have less than about 30%, 20%, 10%, 5% (by dry weight) of chemical precursors or compounds other than the polypeptide of interest.

Biologically active portions of a polypeptide corresponding to a marker of the invention include polypeptides comprising amino acid sequences sufficiently identical to or derived from the amino acid sequence of the protein corresponding to the marker, which include fewer amino acids than the full length protein, and exhibit at least one activity of the corresponding full-length protein. Typically, biologically active portions comprise a domain or motif with at least one activity of the corresponding protein. A biologically active portion of a protein of the invention can be a polypeptide which is, for example, 10, 25, 50, 100 or more amino acids in length. Moreover, other biologically active portions, in which other regions of the protein are deleted, can be prepared by recombinant techniques and evaluated for one or more of the functional activities of the native form of a polypeptide of the invention.

Preferred polypeptides are encoded by the nucleotide sequences of Tables 1-2. Other useful proteins are substantially identical (*e.g.*, at least about 40%, preferably 50%, 60%, 70%, 80%, 90%, 95%, or 99%) to one of these sequences and retain the functional activity of the protein of the corresponding naturally-occurring protein yet differ in amino acid sequence due to natural allelic variation or mutagenesis.

To determine the percent identity of two amino acid sequences or of two nucleic acids, the sequences are aligned for optimal comparison purposes (*e.g.*, gaps can be introduced in the sequence of a first amino acid or nucleic acid sequence for optimal alignment with a second amino or nucleic acid sequence). The amino acid residues or nucleotides at corresponding amino acid positions or nucleotide positions are then compared. When a position in the first sequence is occupied by the same amino acid residue or nucleotide as the corresponding position in the second sequence, then the molecules are identical at that position. The percent identity between the two sequences is a function of the number of identical positions shared by the sequences (*i.e.*, % identity = # of identical positions/total # of positions (*e.g.*, overlapping positions) x100). In one embodiment the two sequences are the same length.

The determination of percent identity between two sequences can be accomplished using a mathematical algorithm. A preferred, non-limiting example of a mathematical algorithm utilized for the comparison of two sequences is the algorithm of Karlin and Altschul (1990) *Proc. Natl. Acad. Sci. USA* 87:2264-2268, modified as in Karlin and Altschul (1993) *Proc. Natl. Acad. Sci. USA* 90:5873-5877. Such an

algorithm is incorporated into the NBLAST and XBLAST programs of Altschul, *et al.* (1990) *J. Mol. Biol.* 215:403-410. BLAST nucleotide searches can be performed with the NBLAST program, score = 100, wordlength = 12 to obtain nucleotide sequences homologous to a nucleic acid molecules of the invention. BLAST protein searches can be performed with the XBLAST program, score = 50, wordlength = 3 to obtain amino acid sequences homologous to a protein molecules of the invention. To obtain gapped alignments for comparison purposes, Gapped BLAST can be utilized as described in Altschul *et al.* (1997) *Nucleic Acids Res.* 25:3389-3402. Alternatively, PSI-Blast can be used to perform an iterated search which detects distant relationships between molecules. When utilizing BLAST, Gapped BLAST, and PSI-Blast programs, the default parameters of the respective programs (*e.g.*, XBLAST and NBLAST) can be used. See http://www.ncbi.nlm.nih.gov. Another preferred, non-limiting example of a mathematical algorithm utilized for the comparison of sequences is the algorithm of Myers and Miller, (1988) *CABIOS* 4:11-17. Such an algorithm is incorporated into the ALIGN program (version 2.0) which is part of the GCG sequence alignment software package. When utilizing the ALIGN program for comparing amino acid sequences, a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4 can be used. Yet another useful algorithm for identifying regions of local sequence similarity and alignment is the FASTA algorithm as described in Pearson and Lipman (1988) *Proc. Natl. Acad. Sci. USA* 85:2444-2448. When using the FASTA algorithm for comparing nucleotide or amino acid sequences, a PAM120 weight residue table can, for example, be used with a *k*-tuple value of 2.

The percent identity between two sequences can be determined using techniques similar to those described above, with or without allowing gaps. In calculating percent identity, only exact matches are counted.

The invention also provides chimeric or fusion proteins corresponding to a marker of the invention. As used herein, a "chimeric protein" or "fusion protein" comprises all or part (preferably a biologically active part) of a polypeptide corresponding to a marker of the invention operably linked to a heterologous polypeptide (*i.e.*, a polypeptide other than the polypeptide corresponding to the marker). Within the fusion protein, the term "operably linked" is intended to indicate that the polypeptide of the invention and the heterologous polypeptide are fused in-frame to each

other. The heterologous polypeptide can be fused to the amino-terminus or the carboxyl-terminus of the polypeptide of the invention.

One useful fusion protein is a GST fusion protein in which a polypeptide corresponding to a marker of the invention is fused to the carboxyl terminus of GST sequences. Such fusion proteins can facilitate the purification of a recombinant polypeptide of the invention.

In another embodiment, the fusion protein contains a heterologous signal sequence at its amino terminus. For example, the native signal sequence of a polypeptide corresponding to a marker of the invention can be removed and replaced with a signal sequence from another protein. For example, the gp67 secretory sequence of the baculovirus envelope protein can be used as a heterologous signal sequence (Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, NY, 1992). Other examples of eukaryotic heterologous signal sequences include the secretory sequences of melittin and human placental alkaline phosphatase (Stratagene; La Jolla, California). In yet another example, useful prokaryotic heterologous signal sequences include the phoA secretory signal (Sambrook *et al., supra*) and the protein A secretory signal (Pharmacia Biotech; Piscataway, New Jersey).

In yet another embodiment, the fusion protein is an immunoglobulin fusion protein in which all or part of a polypeptide corresponding to a marker of the invention is fused to sequences derived from a member of the immunoglobulin protein family. The immunoglobulin fusion proteins of the invention can be incorporated into pharmaceutical compositions and administered to a subject to inhibit an interaction between a ligand (soluble or membrane-bound) and a protein on the surface of a cell (receptor), to thereby suppress signal transduction *in vivo*. The immunoglobulin fusion protein can be used to affect the bioavailability of a cognate ligand of a polypeptide of the invention. Inhibition of ligand/receptor interaction can be useful therapeutically, both for treating proliferative and differentiative disorders and for modulating (*e.g.* promoting or inhibiting) cell survival. Moreover, the immunoglobulin fusion proteins of the invention can be used as immunogens to produce antibodies directed against a polypeptide of the invention in a subject, to purify ligands and in screening assays to identify molecules which inhibit the interaction of receptors with ligands.

Chimeric and fusion proteins of the invention can be produced by standard recombinant DNA techniques. In another embodiment, the fusion gene can be synthesized by conventional techniques including automated DNA synthesizers. Alternatively, PCR amplification of gene fragments can be carried out using anchor primers which give rise to complementary overhangs between two consecutive gene fragments which can subsequently be annealed and re-amplified to generate a chimeric gene sequence (see, *e.g.*, Ausubel *et al., supra*). Moreover, many expression vectors are commercially available that already encode a fusion moiety (*e.g.*, a GST polypeptide). A nucleic acid encoding a polypeptide of the invention can be cloned into such an expression vector such that the fusion moiety is linked in-frame to the polypeptide of the invention.

A signal sequence can be used to facilitate secretion and isolation of the secreted protein or other proteins of interest. Signal sequences are typically characterized by a core of hydrophobic amino acids which are generally cleaved from the mature protein during secretion in one or more cleavage events. Such signal peptides contain processing sites that allow cleavage of the signal sequence from the mature proteins as they pass through the secretory pathway. Thus, the invention pertains to the described polypeptides having a signal sequence, as well as to polypeptides from which the signal sequence has been proteolytically cleaved (*i.e.*, the cleavage products). In one embodiment, a nucleic acid sequence encoding a signal sequence can be operably linked in an expression vector to a protein of interest, such as a protein which is ordinarily not secreted or is otherwise difficult to isolate. The signal sequence directs secretion of the protein, such as from a eukaryotic host into which the expression vector is transformed, and the signal sequence is subsequently or concurrently cleaved. The protein can then be readily purified from the extracellular medium by art recognized methods. Alternatively, the signal sequence can be linked to the protein of interest using a sequence which facilitates purification, such as with a GST domain.

The present invention also pertains to variants of the polypeptides corresponding to individual markers of the invention. Such variants have an altered amino acid sequence which can function as either agonists (mimetics) or as antagonists. Variants can be generated by mutagenesis, *e.g.*, discrete point mutation or truncation. An agonist can retain substantially the same, or a subset, of the biological activities of the naturally

occurring form of the protein. An antagonist of a protein can inhibit one or more of the activities of the naturally occurring form of the protein by, for example, competitively binding to a downstream or upstream member of a cellular signaling cascade which includes the protein of interest. Thus, specific biological effects can be elicited by treatment with a variant of limited function. Treatment of a subject with a variant having a subset of the biological activities of the naturally occurring form of the protein can have fewer side effects in a subject relative to treatment with the naturally occurring form of the protein.

Variants of a protein of the invention which function as either agonists (mimetics) or as antagonists can be identified by screening combinatorial libraries of mutants, *e.g.*, truncation mutants, of the protein of the invention for agonist or antagonist activity. In one embodiment, a variegated library of variants is generated by combinatorial mutagenesis at the nucleic acid level and is encoded by a variegated gene library. A variegated library of variants can be produced by, for example, enzymatically ligating a mixture of synthetic oligonucleotides into gene sequences such that a degenerate set of potential protein sequences is expressible as individual polypeptides, or alternatively, as a set of larger fusion proteins (*e.g.*, for phage display). There are a variety of methods which can be used to produce libraries of potential variants of the polypeptides of the invention from a degenerate oligonucleotide sequence. Methods for synthesizing degenerate oligonucleotides are known in the art (see, *e.g.*, Narang, 1983, *Tetrahedron* 39:3; Itakura *et al.*, 1984, *Annu. Rev. Biochem.* 53:323; Itakura *et al.*, 1984, *Science* 198:1056; Ike *et al.*, 1983 *Nucleic Acid Res.* 11:477).

In addition, libraries of fragments of the coding sequence of a polypeptide corresponding to a marker of the invention can be used to generate a variegated population of polypeptides for screening and subsequent selection of variants. For example, a library of coding sequence fragments can be generated by treating a double stranded PCR fragment of the coding sequence of interest with a nuclease under conditions wherein nicking occurs only about once per molecule, denaturing the double stranded DNA, renaturing the DNA to form double stranded DNA which can include sense/antisense pairs from different nicked products, removing single stranded portions from reformed duplexes by treatment with S1 nuclease, and ligating the resulting fragment library into an expression vector. By this method, an expression library can be

derived which encodes amino terminal and internal fragments of various sizes of the protein of interest.

Several techniques are known in the art for screening gene products of combinatorial libraries made by point mutations or truncation, and for screening cDNA libraries for gene products having a selected property. The most widely used techniques, which are amenable to high through-put analysis, for screening large gene libraries typically include cloning the gene library into replicable expression vectors, transforming appropriate cells with the resulting library of vectors, and expressing the combinatorial genes under conditions in which detection of a desired activity facilitates isolation of the vector encoding the gene whose product was detected. Recursive ensemble mutagenesis (REM), a technique which enhances the frequency of functional mutants in the libraries, can be used in combination with the screening assays to identify variants of a protein of the invention (Arkin and Yourvan, 1992, *Proc. Natl. Acad. Sci. USA 8*9:7811-7815; Delgrave *et al.*, 1993, *Protein Engineering* 6(3):327- 331).

An isolated polypeptide corresponding to a marker of the invention, or a fragment thereof, can be used as an immunogen to generate antibodies using standard techniques for polyclonal and monoclonal antibody preparation. The full-length polypeptide or protein can be used or, alternatively, the invention provides antigenic peptide fragments for use as immunogens. The antigenic peptide of a protein of the invention comprises at least 8 (preferably 10, 15, 20, or 30 or more) amino acid residues of the amino acid sequence of one of the polypeptides of the invention, and encompasses an epitope of the protein such that an antibody raised against the peptide forms a specific immune complex with a marker of the invention to which the protein corresponds. Preferred epitopes encompassed by the antigenic peptide are regions that are located on the surface of the protein, *e.g.*, hydrophilic regions. Hydrophobicity sequence analysis, hydrophilicity sequence analysis, or similar analyses can be used to identify hydrophilic regions.

An immunogen typically is used to prepare antibodies by immunizing a suitable (*i.e.* immunocompetent) subject such as a rabbit, goat, mouse, or other mammal or vertebrate. An appropriate immunogenic preparation can contain, for example, recombinantly-expressed or chemically-synthesized polypeptide. The preparation can

further include an adjuvant, such as Freund's complete or incomplete adjuvant, or a similar immunostimulatory agent.

Accordingly, another aspect of the invention pertains to antibodies directed against a polypeptide of the invention. The terms "antibody" and "antibody substance" as used interchangeably herein refer to immunoglobulin molecules and immunologically active portions of immunoglobulin molecules, *i.e.*, molecules that contain an antigen binding site which specifically binds an antigen, such as a polypeptide of the invention, e.g., an epitope of a polypeptide of the invention. A molecule which specifically binds to a given polypeptide of the invention is a molecule which binds the polypeptide, but does not substantially bind other molecules in a sample, *e.g.*, a biological sample, which naturally contains the polypeptide. Examples of immunologically active portions of immunoglobulin molecules include F(ab) and $F(ab')_2$ fragments which can be generated by treating the antibody with an enzyme such as pepsin. The invention provides polyclonal and monoclonal antibodies. The term "monoclonal antibody" or "monoclonal antibody composition", as used herein, refers to a population of antibody molecules that contain only one species of an antigen binding site capable of immunoreacting with a particular epitope.

Polyclonal antibodies can be prepared as described above by immunizing a suitable subject with a polypeptide of the invention as an immunogen. Preferred polyclonal antibody compositions are ones that have been selected for antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred polyclonal antibody preparations are ones that contain only antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred immunogen compositions are those that contain no other human proteins such as, for example, immunogen compositions made using a non-human host cell for recombinant expression of a polypeptide of the invention. In such a manner, the only human epitope or epitopes recognized by the resulting antibody compositions raised against this immunogen will be present as part of a polypeptide or polypeptides of the invention.

The antibody titer in the immunized subject can be monitored over time by standard techniques, such as with an enzyme linked immunosorbent assay (ELISA) using immobilized polypeptide. If desired, the antibody molecules can be harvested or isolated from the subject (*e.g.*, from the blood or serum of the subject) and further

purified by well-known techniques, such as protein A chromatography to obtain the IgG fraction. Alternatively, antibodies specific for a protein or polypeptide of the invention can be selected or (*e.g.*, partially purified) or purified by, *e.g.*, affinity chromatography. For example, a recombinantly expressed and purified (or partially purified) protein of the invention is produced as described herein, and covalently or non-covalently coupled to a solid support such as, for example, a chromatography column. The column can then be used to affinity purify antibodies specific for the proteins of the invention from a sample containing antibodies directed against a large number of different epitopes, thereby generating a substantially purified antibody composition, *i.e.*, one that is substantially free of contaminating antibodies. By a substantially purified antibody composition is meant, in this context, that the antibody sample contains at most only 30% (by dry weight) of contaminating antibodies directed against epitopes other than those of the desired protein or polypeptide of the invention, and preferably at most 20%, yet more preferably at most 10%, and most preferably at most 5% (by dry weight) of the sample is contaminating antibodies. A purified antibody composition means that at least 99% of the antibodies in the composition are directed against the desired protein or polypeptide of the invention.

At an appropriate time after immunization, *e.g.*, when the specific antibody titers are highest, antibody-producing cells can be obtained from the subject and used to prepare monoclonal antibodies by standard techniques, such as the hybridoma technique originally described by Kohler and Milstein (1975) *Nature* 256:495-497, the human B cell hybridoma technique (see Kozbor *et al.*, 1983, *Immunol. Today* 4:72), the EBV-hybridoma technique (see Cole *et al.*, pp. 77-96 In *Monoclonal Antibodies and Cancer Therapy*, Alan R. Liss, Inc., 1985) or trioma techniques. The technology for producing hybridomas is well known (see generally *Current Protocols in Immunology,* Coligan *et al.* ed., John Wiley & Sons, New York, 1994). Hybridoma cells producing a monoclonal antibody of the invention are detected by screening the hybridoma culture supernatants for antibodies that bind the polypeptide of interest, *e.g.*, using a standard ELISA assay.

Alternative to preparing monoclonal antibody-secreting hybridomas, a monoclonal antibody directed against a polypeptide of the invention can be identified and isolated by screening a recombinant combinatorial immunoglobulin library (*e.g.*, an

antibody phage display library) with the polypeptide of interest. Kits for generating and screening phage display libraries are commercially available (*e.g.*, the Pharmacia *Recombinant Phage Antibody System*, Catalog No. 27-9400-01; and the Stratagene *SurfZAP Phage Display Kit*, Catalog No. 240612). Additionally, examples of methods and reagents particularly amenable for use in generating and screening antibody display library can be found in, for example, U.S. Patent No. 5,223,409; PCT Publication No. WO 92/18619; PCT Publication No. WO 91/17271; PCT Publication No. WO 92/20791; PCT Publication No. WO 92/15679; PCT Publication No. WO 93/01288; PCT Publication No. WO 92/01047; PCT Publication No. WO 92/09690; PCT Publication No. WO 90/02809; Fuchs *et al.* (1991) *Bio/Technology* 9:1370-1372; Hay *et al.* (1992) *Hum. Antibod. Hybridomas* 3:81-85; Huse *et al.* (1989) *Science* 246:1275-1281; Griffiths *et al.* (1993) *EMBO J.* 12:725-734.

Additionally, recombinant antibodies, such as chimeric and humanized monoclonal antibodies, comprising both human and non-human portions, which can be made using standard recombinant DNA techniques, are within the scope of the invention. A chimeric antibody is a molecule in which different portions are derived from different animal species, such as those having a variable region derived from a murine mAb and a human immunoglobulin constant region. (See, *e.g.,* Cabilly et al., U.S. Patent No. 4,816,567; and Boss et al., U.S. Patent No. 4,816,397, which are incorporated herein by reference in their entirety.) Humanized antibodies are antibody molecules from non-human species having one or more complementarily determining regions (CDRs) from the non-human species and a framework region from a human immunoglobulin molecule. (See, *e.g.,* Queen, U.S. Patent No. 5,585,089, which is incorporated herein by reference in its entirety.) Such chimeric and humanized monoclonal antibodies can be produced by recombinant DNA techniques known in the art, for example using methods described in PCT Publication No. WO 87/02671; European Patent Application 184,187; European Patent Application 171,496; European Patent Application 173,494; PCT Publication No. WO 86/01533; U.S. Patent No. 4,816,567; European Patent Application 125,023; Better *et al.* (1988) *Science* 240:1041-1043; Liu *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:3439-3443; Liu *et al.* (1987) *J. Immunol.* 139:3521- 3526; Sun *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:214-218; Nishimura *et al.* (1987) *Cancer Res.* 47:999-1005; Wood *et al.* (1985) *Nature* 314:446-

449; and Shaw *et al.* (1988) *J. Natl. Cancer Inst.* 80:1553-1559); Morrison (1985) *Science* 229:1202-1207; Oi *et al.* (1986) *Bio/Techniques* 4:214; U.S. Patent 5,225,539; Jones *et al.* (1986) *Nature* 321:552-525; Verhoeyan *et al.* (1988) *Science* 239:1534; and Beidler *et al.* (1988) *J. Immunol.* 141:4053-4060.

Antibodies of the invention may be used as therapeutic agents in treating cancers. In a preferred embodiment, completely human antibodies of the invention are used for therapeutic treatment of human cancer patients, particularly those having an ovarian cancer. Such antibodies can be produced, for example, using transgenic mice which are incapable of expressing endogenous immunoglobulin heavy and light chains genes, but which can express human heavy and light chain genes. The transgenic mice are immunized in the normal fashion with a selected antigen, *e.g.*, all or a portion of a polypeptide corresponding to a marker of the invention. Monoclonal antibodies directed against the antigen can be obtained using conventional hybridoma technology. The human immunoglobulin transgenes harbored by the transgenic mice rearrange during B cell differentiation, and subsequently undergo class switching and somatic mutation. Thus, using such a technique, it is possible to produce therapeutically useful IgG, IgA and IgE antibodies. For an overview of this technology for producing human antibodies, see Lonberg and Huszar (1995) *Int. Rev. Immunol.* 13:65-93). For a detailed discussion of this technology for producing human antibodies and human monoclonal antibodies and protocols for producing such antibodies, see, *e.g.*, U.S. Patent 5,625,126; U.S. Patent 5,633,425; U.S. Patent 5,569,825; U.S. Patent 5,661,016; and U.S. Patent 5,545,806. In addition, companies such as Abgenix, Inc. (Freemont, CA), can be engaged to provide human antibodies directed against a selected antigen using technology similar to that described above.

Completely human antibodies which recognize a selected epitope can be generated using a technique referred to as "guided selection." In this approach a selected non-human monoclonal antibody, *e.g.*, a murine antibody, is used to guide the selection of a completely human antibody recognizing the same epitope (Jespers *et al.*, 1994, *Bio/technology* 12:899-903).

An antibody directed against a polypeptide corresponding to a marker of the invention (*e.g.*, a monoclonal antibody) can be used to isolate the polypeptide by standard techniques, such as affinity chromatography or immunoprecipitation.

Moreover, such an antibody can be used to detect the marker (*e.g.*, in a cellular lysate or cell supernatant) in order to evaluate the level and pattern of expression of the marker. The antibodies can also be used diagnostically to monitor protein levels in tissues or body fluids (*e.g.* in an ovary-associated body fluid) as part of a clinical testing procedure, *e.g.*, to, for example, determine the efficacy of a given treatment regimen. Detection can be facilitated by coupling the antibody to a detectable substance. Examples of detectable substances include various enzymes, prosthetic groups, fluorescent materials, luminescent materials, bioluminescent materials, and radioactive materials. Examples of suitable enzymes include horseradish peroxidase, alkaline phosphatase, β-galactosidase, or acetylcholinesterase; examples of suitable prosthetic group complexes include streptavidin/biotin and avidin/biotin; examples of suitable fluorescent materials include umbelliferone, fluorescein, fluorescein isothiocyanate, rhodamine, dichlorotriazinylamine fluorescein, dansyl chloride or phycoerythrin; an example of a luminescent material includes luminol; examples of bioluminescent materials include luciferase, luciferin, and aequorin, and examples of suitable radioactive material include ^{125}I, ^{131}I, ^{35}S or ^{3}H.

Further, an antibody (or fragment thereof) can be conjugated to a therapeutic moiety such as a cytotoxin, a therapeutic agent or a radioactive metal ion. A cytotoxin or cytotoxic agent includes any agent that is detrimental to cells. Examples include taxol, cytochalasin B, gramicidin D, ethidium bromide, emetine, mitomycin, etoposide, tenoposide, vincristine, vinblastine, colchicin, doxorubicin, daunorubicin, dihydroxy anthracin dione, mitoxantrone, mithramycin, actinomycin D, 1-dehydrotestosterone, glucocorticoids, procaine, tetracaine, lidocaine, propranolol, and puromycin and analogs or homologs thereof. Therapeutic agents include, but are not limited to, antimetabolites (*e.g.*, methotrexate, 6-mercaptopurine, 6-thioguanine, cytarabine, 5-fluorouracil decarbazine), alkylating agents (*e.g.*, mechlorethamine, thioepa chlorambucil, melphalan, carmustine (BSNU) and lomustine (CCNU), cyclothosphamide, busulfan, dibromomannitol, streptozotocin, mitomycin C, and cis-dichlorodiamine platinum (II) (DDP) cisplatin), anthracyclines (*e.g.*, daunorubicin (formerly daunomycin) and doxorubicin), antibiotics *(e.g.*, dactinomycin (formerly actinomycin), bleomycin, mithramycin, and anthramycin (AMC)), and anti-mitotic agents (*e.g.*, vincristine and vinblastine).

The conjugates of the invention can be used for modifying a given biological response, the drug moiety is not to be construed as limited to classical chemical therapeutic agents. For example, the drug moiety may be a protein or polypeptide possessing a desired biological activity. Such proteins may include, for example, a toxin such as abrin, ricin A, pseudomonas exotoxin, or diphtheria toxin; a protein such as tumor necrosis factor, .alpha.-interferon, .beta.-interferon, nerve growth factor, platelet derived growth factor, tissue plasminogen activator; or, biological response modifiers such as, for example, lymphokines, interleukin-1 ("IL-1"), interleukin-2 ("IL-2"), interleukin-6 ("IL-6"), granulocyte macrophase colony stimulating factor ("GM-CSF"), granulocyte colony stimulating factor ("G-CSF"), or other growth factors.

Techniques for conjugating such therapeutic moiety to antibodies are well known, see, *e.g.*, Arnon et al., "Monoclonal Antibodies For Immunotargeting Of Drugs In Cancer Therapy", in Monoclonal Antibodies And Cancer Therapy, Reisfeld et al. (eds.), pp. 243-56 (Alan R. Liss, Inc. 1985); Hellstrom et al., "Antibodies For Drug Delivery", in Controlled Drug Delivery (2nd Ed.), Robinson et al. (eds.), pp. 623-53 (Marcel Dekker, Inc. 1987); Thorpe, "Antibody Carriers Of Cytotoxic Agents In Cancer Therapy: A Review", in Monoclonal Antibodies '84: Biological And Clinical Applications, Pinchera et al. (eds.), pp. 475-506 (1985); "Analysis, Results, And Future Prospective Of The Therapeutic Use Of Radiolabeled Antibody In Cancer Therapy", in Monoclonal Antibodies For Cancer Detection And Therapy, Baldwin et al. (eds.), pp. 303-16 (Academic Press 1985), and Thorpe et al., "The Preparation And Cytotoxic Properties Of Antibody-Toxin Conjugates", Immunol. Rev., 62:119-58 (1982).

Alternatively, an antibody can be conjugated to a second antibody to form an antibody heteroconjugate as described by Segal in U.S. Patent No. 4,676,980.

Accordingly, in one aspect, the invention provides substantially purified antibodies or fragments thereof, and non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the

ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. In various embodiments, the substantially purified antibodies of the invention, or fragments thereof, can be human, non-human, chimeric and/or humanized antibodies.

In another aspect, the invention provides non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of: the amino acid sequence of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. Such non-human antibodies can be goat, mouse, sheep, horse, chicken, rabbit, or rat antibodies. Alternatively, the non-human antibodies of the invention can be chimeric and/or humanized antibodies. In addition, the non-human antibodies of the invention can be polyclonal antibodies or monoclonal antibodies.

In still a further aspect, the invention provides monoclonal antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to an amino acid sequence of the present invention (wherein the percent

identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. The monoclonal antibodies can be human, humanized, chimeric and/or non-human antibodies.

The substantially purified antibodies or fragments thereof may specifically bind to a signal peptide, a secreted sequence, an extracellular domain, a transmembrane or a cytoplasmic domain or cytoplasmic membrane of a polypeptide of the invention. In a particularly preferred embodiment, the substantially purified antibodies or fragments thereof, the non-human antibodies or fragments thereof, and/or the monoclonal antibodies or fragments thereof, of the invention specifically bind to a secreted sequence or an extracellular domain of the amino acid sequences of the present invention.

Any of the antibodies of the invention can be conjugated to a therapeutic moiety or to a detectable substance. Non-limiting examples of detectable substances that can be conjugated to the antibodies of the invention are an enzyme, a prosthetic group, a fluorescent material, a luminescent material, a bioluminescent material, and a radioactive material.

The invention also provides a kit containing an antibody of the invention conjugated to a detectable substance, and instructions for use. Still another aspect of the invention is a pharmaceutical composition comprising an antibody of the invention and a pharmaceutically acceptable carrier. In preferred embodiments, the pharmaceutical composition contains an antibody of the invention, a therapeutic moiety, and a pharmaceutically acceptable carrier.

Still another aspect of the invention is a method of making an antibody that specifically recognizes a polypeptide of the present invention, the method comprising immunizing a mammal with a polypeptide. The polypeptide used as an immungen comprises an amino acid sequence selected from the group consisting of the amino acid sequence of the present invention, an amino acid sequence encoded by the cDNA of the nucleic acid molecules of the present invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence

which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C.

After immunization, a sample is collected from the mammal that contains an antibody that specifically recognizes the polypeptide. Preferably, the polypeptide is recombinantly produced using a non-human host cell. Optionally, the antibodies can be further purified from the sample using techniques well known to those of skill in the art. The method can further comprise producing a monoclonal antibody- producing cell from the cells of the mammal. Optionally, antibodies are collected from the antibody-producing cell.

III. Recombinant Expression Vectors and Host Cells

Another aspect of the invention pertains to vectors, preferably expression vectors, containing a nucleic acid encoding a polypeptide corresponding to a marker of the invention (or a portion of such a polypeptide). As used herein, the term "vector" refers to a nucleic acid molecule capable of transporting another nucleic acid to which it has been linked. One type of vector is a "plasmid", which refers to a circular double stranded DNA loop into which additional DNA segments can be ligated. Another type of vector is a viral vector, wherein additional DNA segments can be ligated into the viral genome. Certain vectors are capable of autonomous replication in a host cell into which they are introduced (*e.g.*, bacterial vectors having a bacterial origin of replication and episomal mammalian vectors). Other vectors (*e.g.*, non-episomal mammalian vectors) are integrated into the genome of a host cell upon introduction into the host cell, and thereby are replicated along with the host genome. Moreover, certain vectors, namely expression vectors, are capable of directing the expression of genes to which they are operably linked. In general, expression vectors of utility in recombinant DNA techniques are often in the form of plasmids (vectors). However, the invention is intended to include such other forms of expression vectors, such as viral vectors (*e.g.*,

replication defective retroviruses, adenoviruses and adeno-associated viruses), which serve equivalent functions.

The recombinant expression vectors of the invention comprise a nucleic acid of the invention in a form suitable for expression of the nucleic acid in a host cell. This means that the recombinant expression vectors include one or more regulatory sequences, selected on the basis of the host cells to be used for expression, which is operably linked to the nucleic acid sequence to be expressed. Within a recombinant expression vector, "operably linked" is intended to mean that the nucleotide sequence of interest is linked to the regulatory sequence(s) in a manner which allows for expression of the nucleotide sequence (*e.g.*, in an *in vitro* transcription/translation system or in a host cell when the vector is introduced into the host cell). The term "regulatory sequence" is intended to include promoters, enhancers and other expression control elements (*e.g.*, polyadenylation signals). Such regulatory sequences are described, for example, in Goeddel, *Methods in Enzymology: Gene Expression Technology* vol.185, Academic Press, San Diego, CA (1991). Regulatory sequences include those which direct constitutive expression of a nucleotide sequence in many types of host cell and those which direct expression of the nucleotide sequence only in certain host cells (*e.g.*, tissue-specific regulatory sequences). It will be appreciated by those skilled in the art that the design of the expression vector can depend on such factors as the choice of the host cell to be transformed, the level of expression of protein desired, and the like. The expression vectors of the invention can be introduced into host cells to thereby produce proteins or peptides, including fusion proteins or peptides, encoded by nucleic acids as described herein.

The recombinant expression vectors of the invention can be designed for expression of a polypeptide corresponding to a marker of the invention in prokaryotic (*e.g.*, *E. coli*) or eukaryotic cells (*e.g.*, insect cells {using baculovirus expression vectors}, yeast cells or mammalian cells). Suitable host cells are discussed further in Goeddel, *supra*. Alternatively, the recombinant expression vector can be transcribed and translated *in vitro*, for example using T7 promoter regulatory sequences and T7 polymerase.

Expression of proteins in prokaryotes is most often carried out in *E. coli* with vectors containing constitutive or inducible promoters directing the expression of either fusion or non-fusion proteins. Fusion vectors add a number of amino acids to a protein encoded therein, usually to the amino terminus of the recombinant protein. Such fusion vectors typically serve three purposes: 1) to increase expression of recombinant protein; 2) to increase the solubility of the recombinant protein; and 3) to aid in the purification of the recombinant protein by acting as a ligand in affinity purification. Often, in fusion expression vectors, a proteolytic cleavage site is introduced at the junction of the fusion moiety and the recombinant protein to enable separation of the recombinant protein from the fusion moiety subsequent to purification of the fusion protein. Such enzymes, and their cognate recognition sequences, include Factor Xa, thrombin and enterokinase. Typical fusion expression vectors include pGEX (Pharmacia Biotech Inc; Smith and Johnson, 1988, *Gene* 67:31-40), pMAL (New England Biolabs, Beverly, MA) and pRIT5 (Pharmacia, Piscataway, NJ) which fuse glutathione S-transferase (GST), maltose E binding protein, or protein A, respectively, to the target recombinant protein.

Examples of suitable inducible non-fusion *E. coli* expression vectors include pTrc (Amann *et al.*, 1988, *Gene* 69:301-315) and pET 11d (Studier *et al.*, p. 60-89, In *Gene Expression Technology: Methods in Enzymology* vol.185, Academic Press, San Diego, CA, 1991). Target gene expression from the pTrc vector relies on host RNA polymerase transcription from a hybrid trp-lac fusion promoter. Target gene expression from the pET 11d vector relies on transcription from a T7 gn10-lac fusion promoter mediated by a co-expressed viral RNA polymerase (T7 gn1). This viral polymerase is supplied by host strains BL21(DE3) or HMS174(DE3) from a resident prophage harboring a T7 gn1 gene under the transcriptional control of the lacUV 5 promoter.

One strategy to maximize recombinant protein expression in *E. coli* is to express the protein in a host bacteria with an impaired capacity to proteolytically cleave the recombinant protein (Gottesman, p. 119-128, In *Gene Expression Technology: Methods in Enzymology* vol. 185, Academic Press, San Diego, CA, 1990. Another strategy is to alter the nucleic acid sequence of the nucleic acid to be inserted into an expression vector so that the individual codons for each amino acid are those preferentially utilized in *E. coli* (Wada *et al.*, 1992, *Nucleic Acids Res.* 20:2111-2118). Such alteration of

nucleic acid sequences of the invention can be carried out by standard DNA synthesis techniques.

In another embodiment, the expression vector is a yeast expression vector. Examples of vectors for expression in yeast *S. cerevisiae* include pYepSec1 (Baldari *et al.*, 1987, *EMBO J.* 6:229-234), pMFa (Kurjan and Herskowitz, 1982, *Cell* 30:933-943), pJRY88 (Schultz *et al.*, 1987, *Gene* 54:113-123), pYES2 (Invitrogen Corporation, San Diego, CA), and pPicZ (Invitrogen Corp, San Diego, CA).

Alternatively, the expression vector is a baculovirus expression vector. Baculovirus vectors available for expression of proteins in cultured insect cells (*e.g.*, Sf 9 cells) include the pAc series (Smith *et al.*, 1983, *Mol. Cell Biol.* 3:2156-2165) and the pVL series (Lucklow and Summers, 1989, *Virology* 170:31-39).

In yet another embodiment, a nucleic acid of the invention is expressed in mammalian cells using a mammalian expression vector. Examples of mammalian expression vectors include pCDM8 (Seed, 1987, *Nature* 329:840) and pMT2PC (Kaufman *et al.*, 1987, *EMBO J.* 6:187-195). When used in mammalian cells, the expression vector's control functions are often provided by viral regulatory elements. For example, commonly used promoters are derived from polyoma, Adenovirus 2, cytomegalovirus and Simian Virus 40. For other suitable expression systems for both prokaryotic and eukaryotic cells see chapters 16 and 17 of Sambrook *et al.*, *supra.*

In another embodiment, the recombinant mammalian expression vector is capable of directing expression of the nucleic acid preferentially in a particular cell type (*e.g.*, tissue-specific regulatory elements are used to express the nucleic acid). Tissue-specific regulatory elements are known in the art. Non-limiting examples of suitable tissue-specific promoters include the albumin promoter (liver-specific; Pinkert *et al.*, 1987, *Genes Dev.* 1:268-277), lymphoid-specific promoters (Calame and Eaton, 1988, *Adv. Immunol.* 43:235-275), in particular promoters of T cell receptors (Winoto and Baltimore, 1989, *EMBO J.* 8:729-733) and immunoglobulins (Banerji *et al.*, 1983, *Cell* 33:729-740; Queen and Baltimore, 1983, *Cell* 33:741-748), neuron-specific promoters (*e.g.*, the neurofilament promoter; Byrne and Ruddle, 1989, *Proc. Natl. Acad. Sci. USA* 86:5473-5477), pancreas-specific promoters (Edlund *et al.*, 1985, *Science* 230:912-916), and mammary gland-specific promoters (*e.g.*, milk whey promoter; U.S. Patent No. 4,873,316 and European Application Publication No. 264,166). Developmentally-

regulated promoters are also encompassed, for example the murine hox promoters (Kessel and Gruss, 1990, *Science* 249:374-379) and the α-fetoprotein promoter (Camper and Tilghman, 1989, *Genes Dev.* 3:537-546).

The invention further provides a recombinant expression vector comprising a DNA molecule of the invention cloned into the expression vector in an antisense orientation. That is, the DNA molecule is operably linked to a regulatory sequence in a manner which allows for expression (by transcription of the DNA molecule) of an RNA molecule which is antisense to the mRNA encoding a polypeptide of the invention. Regulatory sequences operably linked to a nucleic acid cloned in the antisense orientation can be chosen which direct the continuous expression of the antisense RNA molecule in a variety of cell types, for instance viral promoters and/or enhancers, or regulatory sequences can be chosen which direct constitutive, tissue-specific or cell type specific expression of antisense RNA. The antisense expression vector can be in the form of a recombinant plasmid, phagemid, or attenuated virus in which antisense nucleic acids are produced under the control of a high efficiency regulatory region, the activity of which can be determined by the cell type into which the vector is introduced. For a discussion of the regulation of gene expression using antisense genes see Weintraub *et al.*, 1986, *Trends in Genetics*, Vol. 1(1).

Another aspect of the invention pertains to host cells into which a recombinant expression vector of the invention has been introduced. The terms "host cell" and "recombinant host cell" are used interchangeably herein. It is understood that such terms refer not only to the particular subject cell but to the progeny or potential progeny of such a cell. Because certain modifications may occur in succeeding generations due to either mutation or environmental influences, such progeny may not, in fact, be identical to the parent cell, but are still included within the scope of the term as used herein.

A host cell can be any prokaryotic (*e.g.*, *E. coli*) or eukaryotic cell (*e.g.*, insect cells, yeast or mammalian cells).

Vector DNA can be introduced into prokaryotic or eukaryotic cells via conventional transformation or transfection techniques. As used herein, the terms "transformation" and "transfection" are intended to refer to a variety of art-recognized techniques for introducing foreign nucleic acid into a host cell, including calcium

phosphate or calcium chloride co-precipitation, DEAE-dextran-mediated transfection, lipofection, or electroporation. Suitable methods for transforming or transfecting host cells can be found in Sambrook, *et al.* (*supra*), and other laboratory manuals.

For stable transfection of mammalian cells, it is known that, depending upon the expression vector and transfection technique used, only a small fraction of cells may integrate the foreign DNA into their genome. In order to identify and select these integrants, a gene that encodes a selectable marker (*e.g.*, for resistance to antibiotics) is generally introduced into the host cells along with the gene of interest. Preferred selectable markers include those which confer resistance to drugs, such as G418, hygromycin and methotrexate. Cells stably transfected with the introduced nucleic acid can be identified by drug selection (*e.g.*, cells that have incorporated the selectable marker gene will survive, while the other cells die).

A host cell of the invention, such as a prokaryotic or eukaryotic host cell in culture, can be used to produce a polypeptide corresponding to a marker of the invention. Accordingly, the invention further provides methods for producing a polypeptide corresponding to a marker of the invention using the host cells of the invention. In one embodiment, the method comprises culturing the host cell of invention (into which a recombinant expression vector encoding a polypeptide of the invention has been introduced) in a suitable medium such that the marker is produced. In another embodiment, the method further comprises isolating the marker polypeptide from the medium or the host cell.

The host cells of the invention can also be used to produce nonhuman transgenic animals. For example, in one embodiment, a host cell of the invention is a fertilized oocyte or an embryonic stem cell into which a sequences encoding a polypeptide corresponding to a marker of the invention have been introduced. Such host cells can then be used to create non-human transgenic animals in which exogenous sequences encoding a marker protein of the invention have been introduced into their genome or homologous recombinant animals in which endogenous gene(s) encoding a polypeptide corresponding to a marker of the invention sequences have been altered. Such animals are useful for studying the function and/or activity of the polypeptide corresponding to the marker and for identifying and/or evaluating modulators of polypeptide activity. As used herein, a "transgenic animal" is a non-human animal, preferably a mammal, more

preferably a rodent such as a rat or mouse, in which one or more of the cells of the animal includes a transgene. Other examples of transgenic animals include non-human primates, sheep, dogs, cows, goats, chickens, amphibians, etc. A transgene is exogenous DNA which is integrated into the genome of a cell from which a transgenic animal develops and which remains in the genome of the mature animal, thereby directing the expression of an encoded gene product in one or more cell types or tissues of the transgenic animal. As used herein, an "homologous recombinant animal" is a non-human animal, preferably a mammal, more preferably a mouse, in which an endogenous gene has been altered by homologous recombination between the endogenous gene and an exogenous DNA molecule introduced into a cell of the animal, *e.g.*, an embryonic cell of the animal, prior to development of the animal.

A transgenic animal of the invention can be created by introducing a nucleic acid encoding a polypeptide corresponding to a marker of the invention into the male pronuclei of a fertilized oocyte, *e.g.*, by microinjection, retroviral infection, and allowing the oocyte to develop in a pseudopregnant female foster animal. Intronic sequences and polyadenylation signals can also be included in the transgene to increase the efficiency of expression of the transgene. A tissue-specific regulatory sequence(s) can be operably linked to the transgene to direct expression of the polypeptide of the invention to particular cells. Methods for generating transgenic animals via embryo manipulation and microinjection, particularly animals such as mice, have become conventional in the art and are described, for example, in U.S. Patent Nos. 4,736,866 and 4,870,009, U.S. Patent No. 4,873,191 and in Hogan, *Manipulating the Mouse Embryo*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., 1986. Similar methods are used for production of other transgenic animals. A transgenic founder animal can be identified based upon the presence of the transgene in its genome and/or expression of mRNA encoding the transgene in tissues or cells of the animals. A transgenic founder animal can then be used to breed additional animals carrying the transgene. Moreover, transgenic animals carrying the transgene can further be bred to other transgenic animals carrying other transgenes.

To create an homologous recombinant animal, a vector is prepared which contains at least a portion of a gene encoding a polypeptide corresponding to a marker of the invention into which a deletion, addition or substitution has been introduced to

thereby alter, *e.g.*, functionally disrupt, the gene. In a preferred embodiment, the vector is designed such that, upon homologous recombination, the endogenous gene is functionally disrupted (*i.e.*, no longer encodes a functional protein; also referred to as a "knock out" vector). Alternatively, the vector can be designed such that, upon homologous recombination, the endogenous gene is mutated or otherwise altered but still encodes functional protein (*e.g.*, the upstream regulatory region can be altered to thereby alter the expression of the endogenous protein). In the homologous recombination vector, the altered portion of the gene is flanked at its 5' and 3' ends by additional nucleic acid of the gene to allow for homologous recombination to occur between the exogenous gene carried by the vector and an endogenous gene in an embryonic stem cell. The additional flanking nucleic acid sequences are of sufficient length for successful homologous recombination with the endogenous gene. Typically, several kilobases of flanking DNA (both at the 5' and 3' ends) are included in the vector (see, *e.g.*, Thomas and Capecchi, 1987, *Cell* 51:503 for a description of homologous recombination vectors). The vector is introduced into an embryonic stem cell line (*e.g.*, by electroporation) and cells in which the introduced gene has homologously recombined with the endogenous gene are selected (see, *e.g.*, Li *et al.*, 1992, *Cell* 69:915). The selected cells are then injected into a blastocyst of an animal (*e.g.*, a mouse) to form aggregation chimeras (see, *e.g.*, Bradley, *Teratocarcinomas and Embryonic Stem Cells: A Practical Approach*, Robertson, Ed., IRL, Oxford, 1987, pp. 113-152). A chimeric embryo can then be implanted into a suitable pseudopregnant female foster animal and the embryo brought to term. Progeny harboring the homologously recombined DNA in their germ cells can be used to breed animals in which all cells of the animal contain the homologously recombined DNA by germline transmission of the transgene. Methods for constructing homologous recombination vectors and homologous recombinant animals are described further in Bradley (1991) *Current Opinion in Bio/Technology* 2:823-829 and in PCT Publication NOS. WO 90/11354, WO 91/01140, WO 92/0968, and WO 93/04169.

In another embodiment, transgenic non-human animals can be produced which contain selected systems which allow for regulated expression of the transgene. One example of such a system is the *cre/loxP* recombinase system of bacteriophage P1. For a description of the *cre/loxP* recombinase system, see, *e.g.*, Lakso *et al.* (1992) *Proc.*

Natl. Acad. Sci. USA 89:6232-6236. Another example of a recombinase system is the FLP recombinase system of *Saccharomyces cerevisiae* (O'Gorman *et al.*, 1991, *Science* 251:1351-1355). If a *cre/loxP* recombinase system is used to regulate expression of the transgene, animals containing transgenes encoding both the *Cre* recombinase and a selected protein are required. Such animals can be provided through the construction of "double" transgenic animals, *e.g.*, by mating two transgenic animals, one containing a transgene encoding a selected protein and the other containing a transgene encoding a recombinase.

Clones of the non-human transgenic animals described herein can also be produced according to the methods described in Wilmut *et al.* (1997) *Nature* 385:810-813 and PCT Publication NOS. WO 97/07668 and WO 97/07669.

IV. Pharmaceutical Compositions

The nucleic acid molecules, polypeptides, and antibodies (also referred to herein as "active compounds") corresponding to a marker of the invention can be incorporated into pharmaceutical compositions suitable for administration. Such compositions typically comprise the nucleic acid molecule, protein, or antibody and a pharmaceutically acceptable carrier. As used herein the language "pharmaceutically acceptable carrier" is intended to include any and all solvents, dispersion media, coatings, antibacterial and antifungal agents, isotonic and absorption delaying agents, and the like, compatible with pharmaceutical administration. The use of such media and agents for pharmaceutically active substances is well known in the art. Except insofar as any conventional media or agent is incompatible with the active compound, use thereof in the compositions is contemplated. Supplementary active compounds can also be incorporated into the compositions.

The invention includes methods for preparing pharmaceutical compositions for modulating the expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such methods comprise formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such compositions can further include additional active agents. Thus, the invention further includes methods for preparing a pharmaceutical composition by formulating a pharmaceutically

acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention and one or more additional active compounds.

The invention also provides methods (also referred to herein as "screening assays") for identifying modulators, *i.e.,* candidate or test compounds or agents (*e.g.,* peptides, peptidomimetics, peptoids, small molecules or other drugs) which (a) bind to the marker, or (b) have a modulatory (*e.g.,* stimulatory or inhibitory) effect on the activity of the marker or, more specifically, (c) have a modulatory effect on the interactions of the marker with one or more of its natural substrates (*e.g.,* peptide, protein, hormone, co-factor, or nucleic acid), or (d) have a modulatory effect on the expression of the marker. Such assays typically comprise a reaction between the marker and one or more assay components. The other components may be either the test compound itself, or a combination of test compound and a natural binding partner of the marker.

The test compounds of the present invention may be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. Test compounds may also be obtained by any of the numerous approaches in combinatorial library methods known in the art, including: biological libraries; peptoid libraries (libraries of molecules having the functionalities of peptides, but with a novel, non-peptide backbone which are resistant to enzymatic degradation but which nevertheless remain bioactive; see, *e.g.,* Zuckermann *et al.*, 1994, *J. Med. Chem.* 37:2678-85); spatially addressable parallel solid phase or solution phase libraries; synthetic library methods requiring deconvolution; the 'one-bead one-compound' library method; and synthetic library methods using affinity chromatography selection. The biological library and peptoid library approaches are limited to peptide libraries, while the other four approaches are applicable to peptide, non-peptide oligomer or small molecule libraries of compounds (Lam, 1997, *Anticancer Drug Des.* 12:145).

Examples of methods for the synthesis of molecular libraries can be found in the art, for example in: DeWitt *et al.* (1993) *Proc. Natl. Acad. Sci. U.S.A.* 90:6909; Erb *et al.* (1994) *Proc. Natl. Acad. Sci. USA* 91:11422; Zuckermann *et al.* (1994). *J. Med. Chem.* 37:2678; Cho *et al.* (1993) *Science* 261:1303; Carrell *et al.* (1994) *Angew. Chem.*

Int. Ed. Engl. 33:2059; Carell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2061; and in Gallop *et al.* (1994) *J. Med. Chem.* 37:1233.

Libraries of compounds may be presented in solution (*e.g.,* Houghten, 1992, *Biotechniques* 13:412-421), or on beads (Lam, 1991, *Nature* 354:82-84), chips (Fodor, 1993, *Nature* 364:555-556), bacteria and/or spores, (Ladner, USP 5,223,409), plasmids (Cull *et al*, 1992, *Proc Natl Acad Sci USA* 89:1865-1869) or on phage (Scott and Smith, 1990, *Science* 249:386-390; Devlin, 1990, *Science* 249:404-406; Cwirla *et al,* 1990, *Proc. Natl. Acad. Sci.* 87:6378-6382; Felici, 1991, *J. Mol. Biol.* 222:301-310; Ladner, *supra.*).

In one embodiment, the invention provides assays for screening candidate or test compounds which are substrates of a marker or biologically active portion thereof. In another embodiment, the invention provides assays for screening candidate or test compounds which bind to a marker or biologically active portion thereof. Determining the ability of the test compound to directly bind to a marker can be accomplished, for example, by coupling the compound with a radioisotope or enzymatic label such that binding of the compound to the marker can be determined by detecting the labeled marker compound in a complex. For example, compounds (*e.g.,* marker substrates) can be labeled with ^{125}I, ^{35}S, ^{14}C, or ^{3}H, either directly or indirectly, and the radioisotope detected by direct counting of radioemission or by scintillation counting. Alternatively, assay components can be enzymatically labeled with, for example, horseradish peroxidase, alkaline phosphatase, or luciferase, and the enzymatic label detected by determination of conversion of an appropriate substrate to product.

In another embodiment, the invention provides assays for screening candidate or test compounds which modulate the activity of a marker or a biologically active portion thereof. In all likelihood, the marker can, *in vivo*, interact with one or more molecules, such as but not limited to, peptides, proteins, hormones, cofactors and nucleic acids. For the purposes of this discussion, such cellular and extracellular molecules are referred to herein as "binding partners" or marker "substrate".

One necessary embodiment of the invention in order to facilitate such screening is the use of the marker to identify its natural *in vivo* binding partners. There are many ways to accomplish this which are known to one skilled in the art. One example is the use of the marker protein as "bait protein" in a two-hybrid assay or three-hybrid assay

(see, *e.g.,* U.S. Patent No. 5,283,317; Zervos *et al*, 1993, *Cell* 72:223-232; Madura *et al,* 1993, *J. Biol. Chem.* 268:12046-12054; Bartel *et al* ,1993, *Biotechniques* 14:920-924; Iwabuchi *et al*, 1993 *Oncogene* 8:1693-1696; Brent WO94/10300) in order to identify other proteins which bind to or interact with the marker (binding partners) and, therefore, are possibly involved in the natural function of the marker. Such marker binding partners are also likely to be involved in the propagation of signals by the marker or downstream elements of a marker-mediated signaling pathway. Alternatively, such marker binding partners may also be found to be inhibitors of the marker.

The two-hybrid system is based on the modular nature of most transcription factors, which consist of separable DNA-binding and activation domains. Briefly, the assay utilizes two different DNA constructs. In one construct, the gene that encodes a marker protein fused to a gene encoding the DNA binding domain of a known transcription factor (*e.g.,* GAL-4). In the other construct, a DNA sequence, from a library of DNA sequences, that encodes an unidentified protein ("prey" or "sample") is fused to a gene that codes for the activation domain of the known transcription factor. If the "bait" and the "prey" proteins are able to interact, *in vivo,* forming a marker-dependent complex, the DNA-binding and activation domains of the transcription factor are brought into close proximity. This proximity allows transcription of a reporter gene (*e.g.,* LacZ) which is operably linked to a transcriptional regulatory site responsive to the transcription factor. Expression of the reporter gene can be readily detected and cell colonies containing the functional transcription factor can be isolated and used to obtain the cloned gene which encodes the protein which interacts with the marker protein.

In a further embodiment, assays may be devised through the use of the invention for the purpose of identifying compounds which modulate (*e.g.,* affect either positively or negatively) interactions between a marker and its substrates and/or binding partners. Such compounds can include, but are not limited to, molecules such as antibodies, peptides, hormones, oligonucleotides, nucleic acids, and analogs thereof. Such compounds may also be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. The preferred assay components for use in this embodiment is an ovarian cancer marker identified herein, the known binding partner and/or substrate of same, and the test compound. Test compounds can be supplied from any source.

The basic principle of the assay systems used to identify compounds that interfere with the interaction between the marker and its binding partner involves preparing a reaction mixture containing the marker and its binding partner under conditions and for a time sufficient to allow the two products to interact and bind, thus forming a complex. In order to test an agent for inhibitory activity, the reaction mixture is prepared in the presence and absence of the test compound. The test compound can be initially included in the reaction mixture, or can be added at a time subsequent to the addition of the marker and its binding partner. Control reaction mixtures are incubated without the test compound or with a placebo. The formation of any complexes between the marker and its binding partner is then detected. The formation of a complex in the control reaction, but less or no such formation in the reaction mixture containing the test compound, indicates that the compound interferes with the interaction of the marker and its binding partner. Conversely, the formation of more complex in the presence of compound than in the control reaction indicates that the compound may enhance interaction of the marker and its binding partner.

The assay for compounds that interfere with the interaction of the marker with its binding partner may be conducted in a heterogeneous or homogeneous format. Heterogeneous assays involve anchoring either the marker or its binding partner onto a solid phase and detecting complexes anchored to the solid phase at the end of the reaction. In homogeneous assays, the entire reaction is carried out in a liquid phase. In either approach, the order of addition of reactants can be varied to obtain different information about the compounds being tested. For example, test compounds that interfere with the interaction between the markers and the binding partners (*e.g.,* by competition) can be identified by conducting the reaction in the presence of the test substance, *i.e.,* by adding the test substance to the reaction mixture prior to or simultaneously with the marker and its interactive binding partner. Alternatively, test compounds that disrupt preformed complexes, *e.g.,* compounds with higher binding constants that displace one of the components from the complex, can be tested by adding the test compound to the reaction mixture after complexes have been formed. The various formats are briefly described below.

In a heterogeneous assay system, either the marker or its binding partner is anchored onto a solid surface or matrix, while the other corresponding non-anchored component may be labeled, either directly or indirectly. In practice, microtitre plates are often utilized for this approach. The anchored species can be immobilized by a number of methods, either non-covalent or covalent, that are typically well known to one who practices the art. Non-covalent attachment can often be accomplished simply by coating the solid surface with a solution of the marker or its binding partner and drying. Alternatively, an immobilized antibody specific for the assay component to be anchored can be used for this purpose. Such surfaces can often be prepared in advance and stored.

In related embodiments, a fusion protein can be provided which adds a domain that allows one or both of the assay components to be anchored to a matrix. For example, glutathione-S-transferase/marker fusion proteins or glutathione-S-transferase/binding partner can be adsorbed onto glutathione sepharose beads (Sigma Chemical, St. Louis, MO) or glutathione derivatized microtiter plates, which are then combined with the test compound or the test compound and either the non-adsorbed marker or its binding partner, and the mixture incubated under conditions conducive to complex formation (*e.g.,* physiological conditions). Following incubation, the beads or microtiter plate wells are washed to remove any unbound assay components, the immobilized complex assessed either directly or indirectly, for example, as described above. Alternatively, the complexes can be dissociated from the matrix, and the level of marker binding or activity determined using standard techniques.

Other techniques for immobilizing proteins on matrices can also be used in the screening assays of the invention. For example, either a marker or a marker binding partner can be immobilized utilizing conjugation of biotin and streptavidin. Biotinylated marker protein or target molecules can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.,* biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the protein-immobilized surfaces can be prepared in advance and stored.

In order to conduct the assay, the corresponding partner of the immobilized assay component is exposed to the coated surface with or without the test compound. After the reaction is complete, unreacted assay components are removed (*e.g.,* by washing)

and any complexes formed will remain immobilized on the solid surface. The detection of complexes anchored on the solid surface can be accomplished in a number of ways. Where the non-immobilized component is pre-labeled, the detection of label immobilized on the surface indicates that complexes were formed. Where the non-immobilized component is not pre-labeled, an indirect label can be used to detect complexes anchored on the surface; *e.g.*, using a labeled antibody specific for the initially non-immobilized species (the antibody, in turn, can be directly labeled or indirectly labeled with, *e.g.,* a labeled anti-Ig antibody). Depending upon the order of addition of reaction components, test compounds which modulate (inhibit or enhance) complex formation or which disrupt preformed complexes can be detected.

In an alternate embodiment of the invention, a homogeneous assay may be used. This is typically a reaction, analogous to those mentioned above, which is conducted in a liquid phase in the presence or absence of the test compound. The formed complexes are then separated from unreacted components, and the amount of complex formed is determined. As mentioned for heterogeneous assay systems, the order of addition of reactants to the liquid phase can yield information about which test compounds modulate (inhibit or enhance) complex formation and which disrupt preformed complexes.

In such a homogeneous assay, the reaction products may be separated from unreacted assay components by any of a number of standard techniques, including but not limited to: differential centrifugation, chromatography, electrophoresis and immunoprecipitation. In differential centrifugation, complexes of molecules may be separated from uncomplexed molecules through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and densities (see, for example, Rivas, G., and Minton, A.P., *Trends Biochem Sci* 1993 Aug;18(8):284-7). Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the relatively different charge properties of the complex as compared to the uncomplexed molecules may be exploited to differentially separate the complex from

the remaining individual reactants, for example through the use of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, *e.g.,* Heegaard, 1998, *J Mol. Recognit.* 11:141-148; Hage and Tweed, 1997, *J. Chromatogr. B. Biomed. Sci. Appl.,* 699:499-525). Gel electrophoresis may also be employed to separate complexed molecules from unbound species (see, *e.g.,* Ausubel *et al* (eds.), In: Current Protocols in Molecular Biology, J. Wiley & Sons, New York. 1999). In this technique, protein or nucleic acid complexes are separated based on size or charge, for example. In order to maintain the binding interaction during the electrophoretic process, nondenaturing gels in the absence of reducing agent are typically preferred, but conditions appropriate to the particular interactants will be well known to one skilled in the art. Immunoprecipitation is another common technique utilized for the isolation of a protein-protein complex from solution (see, *e.g.,* Ausubel *et al* (eds.), In: Current Protocols in Molecular Biology, J. Wiley & Sons, New York. 1999). In this technique, all proteins binding to an antibody specific to one of the binding molecules are precipitated from solution by conjugating the antibody to a polymer bead that may be readily collected by centrifugation. The bound assay components are released from the beads (through a specific proteolysis event or other technique well known in the art which will not disturb the protein-protein interaction in the complex), and a second immunoprecipitation step is performed, this time utilizing antibodies specific for the correspondingly different interacting assay component. In this manner, only formed complexes should remain attached to the beads. Variations in complex formation in both the presence and the absence of a test compound can be compared, thus offering information about the ability of the compound to modulate interactions between the marker and its binding partner.

Also within the scope of the present invention are methods for direct detection of interactions between the marker and its natural binding partner and/or a test compound in a homogeneous or heterogeneous assay system without further sample manipulation. For example, the technique of fluorescence energy transfer may be utilized (see, *e.g.,* Lakowicz *et al,* U.S. Patent No. 5,631,169; Stavrianopoulos *et al,* U.S. Patent No. 4,868,103). Generally, this technique involves the addition of a fluorophore label on a first 'donor' molecule (*e.g.,* marker or test compound) such that its emitted fluorescent energy will be absorbed by a fluorescent label on a second, 'acceptor' molecule (*e.g.,*

marker or test compound), which in turn is able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter). A test substance which either enhances or hinders participation of one of the species in the preformed complex will result in the generation of a signal variant to that of background. In this way, test substances that modulate interactions between a marker and its binding partner can be identified in controlled assays.

In another embodiment, modulators of marker expression are identified in a method wherein a cell is contacted with a candidate compound and the expression of mRNA or protein, corresponding to a marker in the cell, is determined. The level of expression of mRNA or protein in the presence of the candidate compound is compared to the level of expression of mRNA or protein in the absence of the candidate compound. The candidate compound can then be identified as a modulator of marker expression based on this comparison. For example, when expression of marker mRNA or protein is greater (statistically significantly greater) in the presence of the candidate compound than in its absence, the candidate compound is identified as a stimulator of marker mRNA or protein expression. Conversely, when expression of marker mRNA or protein is less (statistically significantly less) in the presence of the candidate compound than in its absence, the candidate compound is identified as an inhibitor of marker mRNA or protein expression. The level of marker mRNA or protein expression in the cells can be determined by methods described herein for detecting marker mRNA or protein.

In another aspect, the invention pertains to a combination of two or more of the assays described herein. For example, a modulating agent can be identified using a cell-based or a cell free assay, and the ability of the agent to modulate the activity of a

marker protein can be further confirmed *in vivo*, *e.g.*, in a whole animal model for cellular transformation and/or tumorigenesis.

This invention further pertains to novel agents identified by the above-described screening assays. Accordingly, it is within the scope of this invention to further use an agent identified as described herein in an appropriate animal model. For example, an agent identified as described herein (*e.g.*, an marker modulating agent, an antisense marker nucleic acid molecule, an marker-specific antibody, or an marker-binding partner) can be used in an animal model to determine the efficacy, toxicity, or side effects of treatment with such an agent. Alternatively, an agent identified as described herein can be used in an animal model to determine the mechanism of action of such an agent. Furthermore, this invention pertains to uses of novel agents identified by the above-described screening assays for treatments as described herein.

It is understood that appropriate doses of small molecule agents and protein or polypeptide agents depends upon a number of factors within the knowledge of the ordinarily skilled physician, veterinarian, or researcher. The dose(s) of these agents will vary, for example, depending upon the identity, size, and condition of the subject or sample being treated, further depending upon the route by which the composition is to be administered, if applicable, and the effect which the practitioner desires the agent to have upon the nucleic acid or polypeptide of the invention. Exemplary doses of a small molecule include milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 500 milligrams per kilogram, about 100 micrograms per kilogram to about 5 milligrams per kilogram, or about 1 microgram per kilogram to about 50 micrograms per kilogram). Exemplary doses of a protein or polypeptide include gram, milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 5 grams per kilogram, about 100 micrograms per kilogram to about 500 milligrams per kilogram, or about 1 milligram per kilogram to about 50 milligrams per kilogram). It is furthermore understood that appropriate doses of one of these agents depend upon the potency of the agent with respect to the expression or activity to be modulated. Such appropriate doses can be determined using the assays described herein. When one or more of these agents is to be administered to an animal (*e.g.* a human) in order to modulate expression or activity of a polypeptide or nucleic acid of the invention, a physician, veterinarian, or

researcher can, for example, prescribe a relatively low dose at first, subsequently increasing the dose until an appropriate response is obtained. In addition, it is understood that the specific dose level for any particular animal subject will depend upon a variety of factors including the activity of the specific agent employed, the age, body weight, general health, gender, and diet of the subject, the time of administration, the route of administration, the rate of excretion, any drug combination, and the degree of expression or activity to be modulated.

A pharmaceutical composition of the invention is formulated to be compatible with its intended route of administration. Examples of routes of administration include parenteral, *e.g.*, intravenous, intradermal, subcutaneous, oral (*e.g.*, inhalation), transdermal (topical), transmucosal, and rectal administration. Solutions or suspensions used for parenteral, intradermal, or subcutaneous application can include the following components: a sterile diluent such as water for injection, saline solution, fixed oils, polyethylene glycols, glycerine, propylene glycol or other synthetic solvents; antibacterial agents such as benzyl alcohol or methyl parabens; antioxidants such as ascorbic acid or sodium bisulfite; chelating agents such as ethylenediamine-tetraacetic acid; buffers such as acetates, citrates or phosphates and agents for the adjustment of tonicity such as sodium chloride or dextrose. pH can be adjusted with acids or bases, such as hydrochloric acid or sodium hydroxide. The parenteral preparation can be enclosed in ampules, disposable syringes or multiple dose vials made of glass or plastic.

Pharmaceutical compositions suitable for injectable use include sterile aqueous solutions (where water soluble) or dispersions and sterile powders for the extemporaneous preparation of sterile injectable solutions or dispersions. For intravenous administration, suitable carriers include physiological saline, bacteriostatic water, Cremophor EL (BASF; Parsippany, NJ) or phosphate buffered saline (PBS). In all cases, the composition must be sterile and should be fluid to the extent that easy syringability exists. It must be stable under the conditions of manufacture and storage and must be preserved against the contaminating action of microorganisms such as bacteria and fungi. The carrier can be a solvent or dispersion medium containing, for example, water, ethanol, polyol (for example, glycerol, propylene glycol, and liquid polyethylene glycol, and the like), and suitable mixtures thereof. The proper fluidity can be maintained, for example, by the use of a coating such as lecithin, by the maintenance

of the required particle size in the case of dispersion and by the use of surfactants. Prevention of the action of microorganisms can be achieved by various antibacterial and antifungal agents, for example, parabens, chlorobutanol, phenol, ascorbic acid, thimerosal, and the like. In many cases, it will be preferable to include isotonic agents, for example, sugars, polyalcohols such as mannitol, sorbitol, or sodium chloride in the composition. Prolonged absorption of the injectable compositions can be brought about by including in the composition an agent which delays absorption, for example, aluminum monostearate and gelatin.

Sterile injectable solutions can be prepared by incorporating the active compound (*e.g.*, a polypeptide or antibody) in the required amount in an appropriate solvent with one or a combination of ingredients enumerated above, as required, followed by filtered sterilization. Generally, dispersions are prepared by incorporating the active compound into a sterile vehicle which contains a basic dispersion medium, and then incorporating the required other ingredients from those enumerated above. In the case of sterile powders for the preparation of sterile injectable solutions, the preferred methods of preparation are vacuum drying and freeze-drying which yields a powder of the active ingredient plus any additional desired ingredient from a previously sterile-filtered solution thereof.

Oral compositions generally include an inert diluent or an edible carrier. They can be enclosed in gelatin capsules or compressed into tablets. For the purpose of oral therapeutic administration, the active compound can be incorporated with excipients and used in the form of tablets, troches, or capsules. Oral compositions can also be prepared using a fluid carrier for use as a mouthwash, wherein the compound in the fluid carrier is applied orally and swished and expectorated or swallowed.

Pharmaceutically compatible binding agents, and/or adjuvant materials can be included as part of the composition. The tablets, pills, capsules, troches, and the like can contain any of the following ingredients, or compounds of a similar nature: a binder such as microcrystalline cellulose, gum tragacanth or gelatin; an excipient such as starch or lactose, a disintegrating agent such as alginic acid, Primogel, or corn starch; a lubricant such as magnesium stearate or Sterotes; a glidant such as colloidal silicon dioxide; a sweetening agent such as sucrose or saccharin; or a flavoring agent such as peppermint, methyl salicylate, or orange flavoring.

For administration by inhalation, the compounds are delivered in the form of an aerosol spray from a pressurized container or dispenser which contains a suitable propellant, *e.g.*, a gas such as carbon dioxide, or a nebulizer.

Systemic administration can also be by transmucosal or transdermal means. For transmucosal or transdermal administration, penetrants appropriate to the barrier to be permeated are used in the formulation. Such penetrants are generally known in the art, and include, for example, for transmucosal administration, detergents, bile salts, and fusidic acid derivatives. Transmucosal administration can be accomplished through the use of nasal sprays or suppositories. For transdermal administration, the active compounds are formulated into ointments, salves, gels, or creams as generally known in the art.

The compounds can also be prepared in the form of suppositories (*e.g.*, with conventional suppository bases such as cocoa butter and other glycerides) or retention enemas for rectal delivery.

In one embodiment, the active compounds are prepared with carriers that will protect the compound against rapid elimination from the body, such as a controlled release formulation, including implants and microencapsulated delivery systems. Biodegradable, biocompatible polymers can be used, such as ethylene vinyl acetate, polyanhydrides, polyglycolic acid, collagen, polyorthoesters, and polylactic acid. Methods for preparation of such formulations will be apparent to those skilled in the art. The materials can also be obtained commercially from Alza Corporation and Nova Pharmaceuticals, Inc. Liposomal suspensions (including liposomes having monoclonal antibodies incorporated therein or thereon) can also be used as pharmaceutically acceptable carriers. These can be prepared according to methods known to those skilled in the art, for example, as described in U.S. Patent No. 4,522,811.

It is especially advantageous to formulate oral or parenteral compositions in dosage unit form for ease of administration and uniformity of dosage. Dosage unit form as used herein refers to physically discrete units suited as unitary dosages for the subject to be treated; each unit containing a predetermined quantity of active compound calculated to produce the desired therapeutic effect in association with the required pharmaceutical carrier. The specification for the dosage unit forms of the invention are dictated by and directly dependent on the unique characteristics of the active compound

and the particular therapeutic effect to be achieved, and the limitations inherent in the art of compounding such an active compound for the treatment of individuals.

For antibodies, the preferred dosage is 0.1 mg/kg to 100 mg/kg of body weight (generally 10 mg/kg to 20 mg/kg). If the antibody is to act in the brain, a dosage of 50 mg/kg to 100 mg/kg is usually appropriate. Generally, partially human antibodies and fully human antibodies have a longer half-life within the human body than other antibodies. Accordingly, lower dosages and less frequent administration is often possible. Modifications such as lipidation can be used to stabilize antibodies and to enhance uptake and tissue penetration (*e.g.*, into the ovarian epithelium). A method for lipidation of antibodies is described by Cruikshank *et al.* (1997) *J. Acquired Immune Deficiency Syndromes and Human Retrovirology* 14:193.

The nucleic acid molecules corresponding to a marker of the invention can be inserted into vectors and used as gene therapy vectors. Gene therapy vectors can be delivered to a subject by, for example, intravenous injection, local administration (U.S. Patent 5,328,470), or by stereotactic injection (see, *e.g.,* Chen *et al.*, 1994, *Proc. Natl. Acad. Sci. USA* 91:3054-3057). The pharmaceutical preparation of the gene therapy vector can include the gene therapy vector in an acceptable diluent, or can comprise a slow release matrix in which the gene delivery vehicle is imbedded. Alternatively, where the complete gene delivery vector can be produced intact from recombinant cells, *e.g.* retroviral vectors, the pharmaceutical preparation can include one or more cells which produce the gene delivery system.

The pharmaceutical compositions can be included in a container, pack, or dispenser together with instructions for administration.

V. Predictive Medicine

The present invention pertains to the field of predictive medicine in which diagnostic assays, prognostic assays, pharmacogenomics, and monitoring clinical trails are used for prognostic (predictive) purposes to thereby treat an individual prophylactically. Accordingly, one aspect of the present invention relates to diagnostic assays for determining the level of expression of polypeptides or nucleic acids corresponding to one or more markers of the invention, in order to determine whether an individual is at risk of developing ovarian cancer. Such assays can be used for

prognostic or predictive purposes to thereby prophylactically treat an individual prior to the onset of the cancer.

Yet another aspect of the invention pertains to monitoring the influence of agents (*e.g.*, drugs or other compounds administered either to inhibit ovarian cancer or to treat or prevent any other disorder {*i.e.* in order to understand any ovarian carcinogenic effects that such treatment may have}) on the expression or activity of a marker of the invention in clinical trials. These and other agents are described in further detail in the following sections.

A. Diagnostic Assays

An exemplary method for detecting the presence or absence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample involves obtaining a biological sample (*e.g.* an ovary-associated body fluid) from a test subject and contacting the biological sample with a compound or an agent capable of detecting the polypeptide or nucleic acid (*e.g.*, mRNA, genomic DNA, or cDNA). The detection methods of the invention can thus be used to detect mRNA, protein, cDNA, or genomic DNA, for example, in a biological sample *in vitro* as well as *in vivo*. For example, *in vitro* techniques for detection of mRNA include Northern hybridizations and *in situ* hybridizations. *In vitro* techniques for detection of a polypeptide corresponding to a marker of the invention include enzyme linked immunosorbent assays (ELISAs), Western blots, immunoprecipitations and immunofluorescence. *In vitro* techniques for detection of genomic DNA include Southern hybridizations. Furthermore, *in vivo* techniques for detection of a polypeptide corresponding to a marker of the invention include introducing into a subject a labeled antibody directed against the polypeptide. For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

A general principle of such diagnostic and prognostic assays involves preparing a sample or reaction mixture that may contain a marker, and a probe, under appropriate conditions and for a time sufficient to allow the marker and probe to interact and bind, thus forming a complex that can be removed and/or detected in the reaction mixture. These assays can be conducted in a variety of ways.

For example, one method to conduct such an assay would involve anchoring the marker or probe onto a solid phase support, also referred to as a substrate, and detecting target marker/probe complexes anchored on the solid phase at the end of the reaction. In one embodiment of such a method, a sample from a subject, which is to be assayed for presence and/or concentration of marker, can be anchored onto a carrier or solid phase support. In another embodiment, the reverse situation is possible, in which the probe can be anchored to a solid phase and a sample from a subject can be allowed to react as an unanchored component of the assay.

There are many established methods for anchoring assay components to a solid phase. These include, without limitation, marker or probe molecules which are immobilized through conjugation of biotin and streptavidin. Such biotinylated assay components can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the surfaces with immobilized assay components can be prepared in advance and stored.

Other suitable carriers or solid phase supports for such assays include any material capable of binding the class of molecule to which the marker or probe belongs. Well-known supports or carriers include, but are not limited to, glass, polystyrene, nylon, polypropylene, nylon, polyethylene, dextran, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

In order to conduct assays with the above mentioned approaches, the non-immobilized component is added to the solid phase upon which the second component is anchored. After the reaction is complete, uncomplexed components may be removed (*e.g.*, by washing) under conditions such that any complexes formed will remain immobilized upon the solid phase. The detection of marker/probe complexes anchored to the solid phase can be accomplished in a number of methods outlined herein.

In a preferred embodiment, the probe, when it is the unanchored assay component, can be labeled for the purpose of detection and readout of the assay, either directly or indirectly, with detectable labels discussed herein and which are well-known to one skilled in the art.

It is also possible to directly detect marker/probe complex formation without further manipulation or labeling of either component (marker or probe), for example by utilizing the technique of fluorescence energy transfer (see, for example, Lakowicz *et al.*, U.S. Patent No. 5,631,169; Stavrianopoulos, *et al.*, U.S. Patent No. 4,868,103). A fluorophore label on the first, 'donor' molecule is selected such that, upon excitation with incident light of appropriate wavelength, its emitted fluorescent energy will be absorbed by a fluorescent label on a second 'acceptor' molecule, which in turn is able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter).

In another embodiment, determination of the ability of a probe to recognize a marker can be accomplished without labeling either assay component (probe or marker) by utilizing a technology such as real-time Biomolecular Interaction Analysis (BIA) (see, *e.g.*, Sjolander, S. and Urbaniczky, C., 1991, *Anal. Chem.* 63:2338-2345 and Szabo *et al.*, 1995, *Curr. Opin. Struct. Biol.* 5:699-705). As used herein, "BIA" or "surface plasmon resonance" is a technology for studying biospecific interactions in real time, without labeling any of the interactants (*e.g.*, BIAcore). Changes in the mass at the binding surface (indicative of a binding event) result in alterations of the refractive index of light near the surface (the optical phenomenon of surface plasmon resonance (SPR)), resulting in a detectable signal which can be used as an indication of real-time reactions between biological molecules.

Alternatively, in another embodiment, analogous diagnostic and prognostic assays can be conducted with marker and probe as solutes in a liquid phase. In such an assay, the complexed marker and probe are separated from uncomplexed components by any of a number of standard techniques, including but not limited to: differential centrifugation, chromatography, electrophoresis and immunoprecipitation. In

differential centrifugation, marker/probe complexes may be separated from uncomplexed assay components through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and densities (see, for example, Rivas, G., and Minton, A.P., 1993, *Trends Biochem Sci.* 18(8):284-7). Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the relatively different charge properties of the marker/probe complex as compared to the uncomplexed components may be exploited to differentiate the complex from uncomplexed components, for example through the utilization of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, *e.g.*, Heegaard, N.H., 1998, *J. Mol. Recognit.* Winter 11(1-6):141-8; Hage, D.S., and Tweed, S.A. *J Chromatogr B Biomed Sci Appl* 1997 Oct 10;699(1-2):499-525). Gel electrophoresis may also be employed to separate complexed assay components from unbound components (see, *e.g.*, Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York, 1987-1999). In this technique, protein or nucleic acid complexes are separated based on size or charge, for example. In order to maintain the binding interaction during the electrophoretic process, non-denaturing gel matrix materials and conditions in the absence of reducing agent are typically preferred. Appropriate conditions to the particular assay and components thereof will be well known to one skilled in the art.

In a particular embodiment, the level of mRNA corresponding to the marker can be determined both by *in situ* and by *in vitro* formats in a biological sample using methods known in the art. The term "biological sample" is intended to include tissues, cells, biological fluids and isolates thereof, isolated from a subject, as well as tissues, cells and fluids present within a subject. Many expression detection methods use isolated RNA. For *in vitro* methods, any RNA isolation technique that does not select against the isolation of mRNA can be utilized for the purification of RNA from ovarian cells (see, *e.g.*, Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York 1987-1999). Additionally, large numbers of tissue samples can

readily be processed using techniques well known to those of skill in the art, such as, for example, the single-step RNA isolation process of Chomczynski (1989, U.S. Patent No. 4,843,155).

The isolated mRNA can be used in hybridization or amplification assays that include, but are not limited to, Southern or Northern analyses, polymerase chain reaction analyses and probe arrays. One preferred diagnostic method for the detection of mRNA levels involves contacting the isolated mRNA with a nucleic acid molecule (probe) that can hybridize to the mRNA encoded by the gene being detected. The nucleic acid probe can be, for example, a full-length cDNA, or a portion thereof, such as an oligonucleotide of at least 7, 15, 30, 50, 100, 250 or 500 nucleotides in length and sufficient to specifically hybridize under stringent conditions to a mRNA or genomic DNA encoding a marker of the present invention. Other suitable probes for use in the diagnostic assays of the invention are described herein. Hybridization of an mRNA with the probe indicates that the marker in question is being expressed.

In one format, the mRNA is immobilized on a solid surface and contacted with a probe, for example by running the isolated mRNA on an agarose gel and transferring the mRNA from the gel to a membrane, such as nitrocellulose. In an alternative format, the probe(s) are immobilized on a solid surface and the mRNA is contacted with the probe(s), for example, in an Affymetrix gene chip array. A skilled artisan can readily adapt known mRNA detection methods for use in detecting the level of mRNA encoded by the markers of the present invention.

An alternative method for determining the level of mRNA corresponding to a marker of the present invention in a sample involves the process of nucleic acid amplification, *e.g.*, by rtPCR (the experimental embodiment set forth in Mullis, 1987, U.S. Patent No. 4,683,202), ligase chain reaction (Barany, 1991, *Proc. Natl. Acad. Sci. USA,* 88:189-193), self sustained sequence replication (Guatelli *et al.*, 1990, *Proc. Natl. Acad. Sci. USA* 87:1874-1878), transcriptional amplification system (Kwoh *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:1173-1177), Q-Beta Replicase (Lizardi *et al.*, 1988, *Bio/Technology* 6:1197), rolling circle replication (Lizardi *et al.*, U.S. Patent No. 5,854,033) or any other nucleic acid amplification method, followed by the detection of the amplified molecules using techniques well known to those of skill in the art. These detection schemes are especially useful for the detection of nucleic acid molecules if

such molecules are present in very low numbers. As used herein, amplification primers are defined as being a pair of nucleic acid molecules that can anneal to 5' or 3' regions of a gene (plus and minus strands, respectively, or vice-versa) and contain a short region in between. In general, amplification primers are from about 10 to 30 nucleotides in length and flank a region from about 50 to 200 nucleotides in length. Under appropriate conditions and with appropriate reagents, such primers permit the amplification of a nucleic acid molecule comprising the nucleotide sequence flanked by the primers.

For *in situ* methods, mRNA does not need to be isolated from the ovarian cells prior to detection. In such methods, a cell or tissue sample is prepared/processed using known histological methods. The sample is then immobilized on a support, typically a glass slide, and then contacted with a probe that can hybridize to mRNA that encodes the marker.

As an alternative to making determinations based on the absolute expression level of the marker, determinations may be based on the normalized expression level of the marker. Expression levels are normalized by correcting the absolute expression level of a marker by comparing its expression to the expression of a gene that is not a marker, *e.g.*, a housekeeping gene that is constitutively expressed. Suitable genes for normalization include housekeeping genes such as the actin gene, or epithelial cell-specific genes. This normalization allows the comparison of the expression level in one sample, *e.g.*, a patient sample, to another sample, *e.g.*, a non-ovarian cancer sample, or between samples from different sources.

Alternatively, the expression level can be provided as a relative expression level. To determine a relative expression level of a marker, the level of expression of the marker is determined for 10 or more samples of normal versus cancer cell isolates, preferably 50 or more samples, prior to the determination of the expression level for the sample in question. The mean expression level of each of the genes assayed in the larger number of samples is determined and this is used as a baseline expression level for the marker. The expression level of the marker determined for the test sample (absolute level of expression) is then divided by the mean expression value obtained for that marker. This provides a relative expression level.

Preferably, the samples used in the baseline determination will be from ovarian cancer or from non-ovarian cancer cells of ovarian tissue. The choice of the cell source is dependent on the use of the relative expression level. Using expression found in normal tissues as a mean expression score aids in validating whether the marker assayed is ovarian specific (versus normal cells). In addition, as more data is accumulated, the mean expression value can be revised, providing improved relative expression values based on accumulated data. Expression data from ovarian cells provides a means for grading the severity of the ovarian cancer state.

In another embodiment of the present invention, a polypeptide corresponding to a marker is detected. A preferred agent for detecting a polypeptide of the invention is an antibody capable of binding to a polypeptide corresponding to a marker of the invention, preferably an antibody with a detectable label. Antibodies can be polyclonal, or more preferably, monoclonal. An intact antibody, or a fragment thereof (*e.g.*, Fab or $F(ab')_2$) can be used. The term "labeled", with regard to the probe or antibody, is intended to encompass direct labeling of the probe or antibody by coupling (*i.e.*, physically linking) a detectable substance to the probe or antibody, as well as indirect labeling of the probe or antibody by reactivity with another reagent that is directly labeled. Examples of indirect labeling include detection of a primary antibody using a fluorescently labeled secondary antibody and end-labeling of a DNA probe with biotin such that it can be detected with fluorescently labeled streptavidin.

Proteins from ovarian cells can be isolated using techniques that are well known to those of skill in the art. The protein isolation methods employed can, for example, be such as those described in Harlow and Lane (Harlow and Lane, 1988, *Antibodies: A Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York).

A variety of formats can be employed to determine whether a sample contains a protein that binds to a given antibody. Examples of such formats include, but are not limited to, enzyme immunoassay (EIA), radioimmunoassay (RIA), Western blot analysis and enzyme linked immunoabsorbant assay (ELISA). A skilled artisan can readily adapt known protein/antibody detection methods for use in determining whether ovarian cells express a marker of the present invention.

In one format, antibodies, or antibody fragments, can be used in methods such as Western blots or immunofluorescence techniques to detect the expressed proteins. In such uses, it is generally preferable to immobilize either the antibody or proteins on a solid support. Suitable solid phase supports or carriers include any support capable of binding an antigen or an antibody. Well-known supports or carriers include glass, polystyrene, polypropylene, polyethylene, dextran, nylon, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

One skilled in the art will know many other suitable carriers for binding antibody or antigen, and will be able to adapt such support for use with the present invention. For example, protein isolated from ovarian cells can be run on a polyacrylamide gel electrophoresis and immobilized onto a solid phase support such as nitrocellulose. The support can then be washed with suitable buffers followed by treatment with the detectably labeled antibody. The solid phase support can then be washed with the buffer a second time to remove unbound antibody. The amount of bound label on the solid support can then be detected by conventional means.

The invention also encompasses kits for detecting the presence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample (*e.g.* an ovary-associated body fluid such as a urine sample). Such kits can be used to determine if a subject is suffering from or is at increased risk of developing ovarian cancer. For example, the kit can comprise a labeled compound or agent capable of detecting a polypeptide or an mRNA encoding a polypeptide corresponding to a marker of the invention in a biological sample and means for determining the amount of the polypeptide or mRNA in the sample (*e.g.*, an antibody which binds the polypeptide or an oligonucleotide probe which binds to DNA or mRNA encoding the polypeptide). Kits can also include instructions for interpreting the results obtained using the kit.

For antibody-based kits, the kit can comprise, for example: (1) a first antibody (*e.g.*, attached to a solid support) which binds to a polypeptide corresponding to a marker of the invention; and, optionally, (2) a second, different antibody which binds to either the polypeptide or the first antibody and is conjugated to a detectable label.

For oligonucleotide-based kits, the kit can comprise, for example: (1) an oligonucleotide, *e.g.*, a detectably labeled oligonucleotide, which hybridizes to a nucleic acid sequence encoding a polypeptide corresponding to a marker of the invention or (2)

a pair of primers useful for amplifying a nucleic acid molecule corresponding to a marker of the invention. The kit can also comprise, *e.g.*, a buffering agent, a preservative, or a protein stabilizing agent. The kit can further comprise components necessary for detecting the detectable label (*e.g.*, an enzyme or a substrate). The kit can also contain a control sample or a series of control samples which can be assayed and compared to the test sample. Each component of the kit can be enclosed within an individual container and all of the various containers can be within a single package, along with instructions for interpreting the results of the assays performed using the kit.

B. Pharmacogenomics

Agents or modulators which have a stimulatory or inhibitory effect on expression of a marker of the invention can be administered to individuals to treat (prophylactically or therapeutically) ovarian cancer in the patient. In conjunction with such treatment, the pharmacogenomics (*i.e.*, the study of the relationship between an individual's genotype and that individual's response to a foreign compound or drug) of the individual may be considered. Differences in metabolism of therapeutics can lead to severe toxicity or therapeutic failure by altering the relation between dose and blood concentration of the pharmacologically active drug. Thus, the pharmacogenomics of the individual permits the selection of effective agents (*e.g.*, drugs) for prophylactic or therapeutic treatments based on a consideration of the individual's genotype. Such pharmacogenomics can further be used to determine appropriate dosages and therapeutic regimens. Accordingly, the level of expression of a marker of the invention in an individual can be determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual.

Pharmacogenomics deals with clinically significant variations in the response to drugs due to altered drug disposition and abnormal action in affected persons. See, *e.g.*, Linder (1997) *Clin. Chem.* 43(2):254-266. In general, two types of pharmacogenetic conditions can be differentiated. Genetic conditions transmitted as a single factor altering the way drugs act on the body are referred to as "altered drug action." Genetic conditions transmitted as single factors altering the way the body acts on drugs are referred to as "altered drug metabolism". These pharmacogenetic conditions can occur either as rare defects or as polymorphisms. For example, glucose-6-phosphate

dehydrogenase (G6PD) deficiency is a common inherited enzymopathy in which the main clinical complication is hemolysis after ingestion of oxidant drugs (anti-malarials, sulfonamides, analgesics, nitrofurans) and consumption of fava beans.

As an illustrative embodiment, the activity of drug metabolizing enzymes is a major determinant of both the intensity and duration of drug action. The discovery of genetic polymorphisms of drug metabolizing enzymes (*e.g.*, N-acetyltransferase 2 (NAT 2) and cytochrome P450 enzymes CYP2D6 and CYP2C19) has provided an explanation as to why some patients do not obtain the expected drug effects or show exaggerated drug response and serious toxicity after taking the standard and safe dose of a drug. These polymorphisms are expressed in two phenotypes in the population, the extensive metabolizer (EM) and poor metabolizer (PM). The prevalence of PM is different among different populations. For example, the gene coding for CYP2D6 is highly polymorphic and several mutations have been identified in PM, which all lead to the absence of functional CYP2D6. Poor metabolizers of CYP2D6 and CYP2C19 quite frequently experience exaggerated drug response and side effects when they receive standard doses. If a metabolite is the active therapeutic moiety, a PM will show no therapeutic response, as demonstrated for the analgesic effect of codeine mediated by its CYP2D6-formed metabolite morphine. The other extreme are the so called ultra-rapid metabolizers who do not respond to standard doses. Recently, the molecular basis of ultra-rapid metabolism has been identified to be due to CYP2D6 gene amplification.

Thus, the level of expression of a marker of the invention in an individual can be determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual. In addition, pharmacogenetic studies can be used to apply genotyping of polymorphic alleles encoding drug-metabolizing enzymes to the identification of an individual's drug responsiveness phenotype. This knowledge, when applied to dosing or drug selection, can avoid adverse reactions or therapeutic failure and thus enhance therapeutic or prophylactic efficiency when treating a subject with a modulator of expression of a marker of the invention.

C. Monitoring Clinical Trials

Monitoring the influence of agents (*e.g.*, drug compounds) on the level of expression of a marker of the invention can be applied not only in basic drug screening,

but also in clinical trials. For example, the effectiveness of an agent to affect marker expression can be monitored in clinical trials of subjects receiving treatment for ovarian cancer. In a preferred embodiment, the present invention provides a method for monitoring the effectiveness of treatment of a subject with an agent (*e.g.*, an agonist, antagonist, peptidomimetic, protein, peptide, nucleic acid, small molecule, or other drug candidate) comprising the steps of (i) obtaining a pre-administration sample from a subject prior to administration of the agent; (ii) detecting the level of expression of one or more selected markers of the invention in the pre-administration sample; (iii) obtaining one or more post-administration samples from the subject; (iv) detecting the level of expression of the marker(s) in the post-administration samples; (v) comparing the level of expression of the marker(s) in the pre-administration sample with the level of expression of the marker(s) in the post-administration sample or samples; and (vi) altering the administration of the agent to the subject accordingly. For example, increased administration of the agent can be desirable to increase expression of the marker(s) to higher levels than detected, *i.e.*, to increase the effectiveness of the agent. Alternatively, decreased administration of the agent can be desirable to decrease expression of the marker(s) to lower levels than detected, *i.e.*, to decrease the effectiveness of the agent.

D. Electronic Apparatus Readable Media and Arrays

Electronic apparatus readable media comprising a marker of the present invention is also provided. As used herein, "electronic apparatus readable media" refers to any suitable medium for storing, holding or containing data or information that can be read and accessed directly by an electronic apparatus. Such media can include, but are not limited to: magnetic storage media, such as floppy discs, hard disc storage medium, and magnetic tape; optical storage media such as compact disc; electronic storage media such as RAM, ROM, EPROM, EEPROM and the like; general hard disks and hybrids of these categories such as magnetic/optical storage media. The medium is adapted or configured for having recorded thereon a marker of the present invention.

As used herein, the term "electronic apparatus" is intended to include any suitable computing or processing apparatus or other device configured or adapted for storing data or information. Examples of electronic apparatus suitable for use with the

present invention include stand-alone computing apparatus; networks, including a local area network (LAN), a wide area network (WAN) Internet, Intranet, and Extranet; electronic appliances such as a personal digital assistants (PDAs), cellular phone, pager and the like; and local and distributed processing systems.

As used herein, "recorded" refers to a process for storing or encoding information on the electronic apparatus readable medium. Those skilled in the art can readily adopt any of the presently known methods for recording information on known media to generate manufactures comprising the markers of the present invention.

A variety of software programs and formats can be used to store the marker information of the present invention on the electronic apparatus readable medium. For example, the nucleic acid sequence corresponding to the markers can be represented in a word processing text file, formatted in commercially-available software such as WordPerfect and MicroSoft Word, or represented in the form of an ASCII file, stored in a database application, such as DB2, Sybase, Oracle, or the like, as well as in other forms. Any number of dataprocessor structuring formats (*e.g.*, text file or database) may be employed in order to obtain or create a medium having recorded thereon the the markers of the present invention.

By providing the markers of the invention in readable form, one can routinely access the marker sequence information for a variety of purposes. For example, one skilled in the art can use the nucleotide or amino acid sequences of the present invention in readable form to compare a target sequence or target structural motif with the sequence information stored within the data storage means. Search means are used to identify fragments or regions of the sequences of the invention which match a particular target sequence or target motif.

The present invention therefore provides a medium for holding instructions for performing a method for determining whether a subject has ovarian cancer or a pre-disposition to ovarian cancer, wherein the method comprises the steps of determining the presence or absence of a marker and based on the presence or absence of the marker, determining whether the subject has ovarian cancer or a pre-disposition to ovarian cancer and/or recommending a particular treatment for ovarian cancer or pre-ovarian cancer condition.

The present invention further provides in an electronic system and/or in a network, a method for determining whether a subject has ovarian cancer or a pre-disposition to ovarian cancer associated with a marker wherein the method comprises the steps of determining the presence or absence of the marker, and based on the presence or absence of the marker, determining whether the subject has ovarian cancer or a pre-disposition to ovarian cancer, and/or recommending a particular treatment for the ovarian cancer or pre-ovarian cancer condition. The method may further comprise the step of receiving phenotypic information associated with the subject and/or acquiring from a network phenotypic information associated with the subject.

The present invention also provides in a network, a method for determining whether a subject has ovarian cancer or a pre-disposition to ovarian cancer associated with a marker, said method comprising the steps of receiving information associated with the marker receiving phenotypic information associated with the subject, acquiring information from the network corresponding to the marker and/or ovarian cancer, and based on one or more of the phenotypic information, the marker, and the acquired information, determining whether the subject has a ovarian cancer or a pre-disposition to ovarian cancer. The method may further comprise the step of recommending a particular treatment for the ovarian cancer or pre-ovarian cancer condition.

The present invention also provides a business method for determining whether a subject has ovarian cancer or a pre-disposition to ovarian cancer, said method comprising the steps of receiving information associated with the marker, receiving phenotypic information associated with the subject, acquiring information from the network corresponding to the marker and/or ovarian cancer, and based on one or more of the phenotypic information, the marker, and the acquired information, determining whether the subject has ovarian cancer or a pre-disposition to ovarian cancer. The method may further comprise the step of recommending a particular treatment for the ovarian cancer or pre-ovarian cancer condition.

The invention also includes an array comprising a marker of the present invention. The array can be used to assay expression of one or more genes in the array. In one embodiment, the array can be used to assay gene expression in a tissue to ascertain tissue specificity of genes in the array. In this manner, up to about 7600 genes

can be simultaneously assayed for expression. This allows a profile to be developed showing a battery of genes specifically expressed in one or more tissues.

In addition to such qualitative determination, the invention allows the quantitation of gene expression. Thus, not only tissue specificity, but also the level of expression of a battery of genes in the tissue is ascertainable. Thus, genes can be grouped on the basis of their tissue expression *per se* and level of expression in that tissue. This is useful, for example, in ascertaining the relationship of gene expression between or among tissues. Thus, one tissue can be perturbed and the effect on gene expression in a second tissue can be determined. In this context, the effect of one cell type on another cell type in response to a biological stimulus can be determined. Such a determination is useful, for example, to know the effect of cell-cell interaction at the level of gene expression. If an agent is administered therapeutically to treat one cell type but has an undesirable effect on another cell type, the invention provides an assay to determine the molecular basis of the undesirable effect and thus provides the opportunity to co-administer a counteracting agent or otherwise treat the undesired effect. Similarly, even within a single cell type, undesirable biological effects can be determined at the molecular level. Thus, the effects of an agent on expression of other than the target gene can be ascertained and counteracted.

In another embodiment, the array can be used to monitor the time course of expression of one or more genes in the array. This can occur in various biological contexts, as disclosed herein, for example development of ovarian cancer, progression of ovarian cancer, and processes, such a cellular transformation associated with ovarian cancer.

The array is also useful for ascertaining the effect of the expression of a gene on the expression of other genes in the same cell or in different cells. This provides, for example, for a selection of alternate molecular targets for therapeutic intervention if the ultimate or downstream target cannot be regulated.

The array is also useful for ascertaining differential expression patterns of one or more genes in normal and abnormal cells. This provides a battery of genes that could serve as a molecular target for diagnosis or therapeutic intervention.

E. Surrogate Markers

The markers of the invention may serve as surrogate markers for one or more disorders or disease states or for conditions leading up to disease states, and in particular, ovarian cancer. As used herein, a "surrogate marker" is an objective biochemical marker which correlates with the absence or presence of a disease or disorder, or with the progression of a disease or disorder (*e.g.*, with the presence or absence of a tumor). The presence or quantity of such markers is independent of the disease. Therefore, these markers may serve to indicate whether a particular course of treatment is effective in lessening a disease state or disorder. Surrogate markers are of particular use when the presence or extent of a disease state or disorder is difficult to assess through standard methodologies (*e.g.*, early stage tumors), or when an assessment of disease progression is desired before a potentially dangerous clinical endpoint is reached (*e.g.*, an assessment of cardiovascular disease may be made using cholesterol levels as a surrogate marker, and an analysis of HIV infection may be made using HIV RNA levels as a surrogate marker, well in advance of the undesirable clinical outcomes of myocardial infarction or fully-developed AIDS). Examples of the use of surrogate markers in the art include: Koomen *et al.* (2000) *J. Mass. Spectrom.* 35: 258-264; and James (1994) *AIDS Treatment News Archive* 209.

The markers of the invention are also useful as pharmacodynamic markers. As used herein, a "pharmacodynamic marker" is an objective biochemical marker which correlates specifically with drug effects. The presence or quantity of a pharmacodynamic marker is not related to the disease state or disorder for which the drug is being administered; therefore, the presence or quantity of the marker is indicative of the presence or activity of the drug in a subject. For example, a pharmacodynamic marker may be indicative of the concentration of the drug in a biological tissue, in that the marker is either expressed or transcribed or not expressed or transcribed in that tissue in relationship to the level of the drug. In this fashion, the distribution or uptake of the drug may be monitored by the pharmacodynamic marker. Similarly, the presence or quantity of the pharmacodynamic marker may be related to the presence or quantity of the metabolic product of a drug, such that the presence or quantity of the marker is indicative of the relative breakdown rate of the drug *in vivo*. Pharmacodynamic markers are of particular use in increasing the sensitivity of detection

of drug effects, particularly when the drug is administered in low doses. Since even a small amount of a drug may be sufficient to activate multiple rounds of marker transcription or expression, the amplified marker may be in a quantity which is more readily detectable than the drug itself. Also, the marker may be more easily detected due to the nature of the marker itself; for example, using the methods described herein, antibodies may be employed in an immune-based detection system for a protein marker, or marker-specific radiolabeled probes may be used to detect a mRNA marker. Furthermore, the use of a pharmacodynamic marker may offer mechanism-based prediction of risk due to drug treatment beyond the range of possible direct observations. Examples of the use of pharmacodynamic markers in the art include: Matsuda *et al.* US 6,033,862; Hattis *et al.* (1991) *Env. Health Perspect.* 90: 229-238; Schentag (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S21-S24; and Nicolau (1999) *Am, J. Health-Syst. Pharm.* 56 Suppl. 3: S16-S20.

The markers of the invention are also useful as pharmacogenomic markers. As used herein, a "pharmacogenomic marker" is an objective biochemical marker which correlates with a specific clinical drug response or susceptibility in a subject (see, e.g., McLeod *et al.* (1999) *Eur. J. Cancer* 35(12): 1650-1652). The presence or quantity of the pharmacogenomic marker is related to the predicted response of the subject to a specific drug or class of drugs prior to administration of the drug. By assessing the presence or quantity of one or more pharmacogenomic markers in a subject, a drug therapy which is most appropriate for the subject, or which is predicted to have a greater degree of success, may be selected. For example, based on the presence or quantity of RNA or protein for specific tumor markers in a subject, a drug or course of treatment may be selected that is optimized for the treatment of the specific tumor likely to be present in the subject. Similarly, the presence or absence of a specific sequence mutation in marker DNA may correlate with drug response. The use of pharmacogenomic markers therefore permits the application of the most appropriate treatment for each subject without having to administer the therapy.

VI. Experimental Protocol

A. Subtracted Libraries

Subtracted libraries are generated using a PCR based method that allows the isolation of clones expressed at higher levels in one population of mRNA (tester) compared to another population (driver). Both tester and driver mRNA populations are converted into cDNA by reverse transcription, and then PCR amplified using the SMART PCR kit from Clontech. Tester and driver cDNAs are then hybridized using the PCR-Select cDNA subtraction kit from Clontech. This technique results in both subtraction and normalization, which is an equalization of copy number of low-abundance and high-abundance sequences. After generation of the subtractive libraries, a group of 96 or more clones from each library is tested to confirm differential expression by reverse Southern hybridization.

To create the subtracted libraries, a first group of regular cDNA libraries was constructed. Library johOa was constructed from a pool of 5 normal ovarian epithelial cell cultures. Library johOb was constructed from a pool of 5 ascites short cultured samples from ovarian cancer patients. Library johOc was constructed from a pool of 6 serous late stage (III/IV) tumor samples. Three subtracted libraries were generated from tumor samples. Library johOd was a subtracted ascites library, where the tester was johOb, and the driver was johOa. The johOe and the johOf library were both subtracted stage III/IV serous tumor libraries. The tester for both of these libraries was johOc, and the driver was a pooled RNA from normal tissues. The tissues used for this driver pool were: kidney, small intestine, prostate, lung, heart, muscle, spleen, pancreas, liver, and lymphocyte. Library cMhOg was the same as the johOc and johOf libraries, with the exception that normal ovary was added to the driver. cMhOh, i, j, and k are all stage I/II subtracted libraries made from pooled tumor RNAs of different histological types (h=serous, I-endometriod, j=clear cell, k=mucinous). The driver was the same for these 4 libraries. It consisted of normal ovarian epithelial RNA and PBML RNA. Of the markers listed in Table 1, SEQ ID NOS: 1-129, 916-1029, 1566-1571 and 1607-1865 were identified in library johOa. Markers identified in johOb include SEQ ID NOS: 130-177, 1030-1081, 1572-1574, and 1866-1974. Markers identified in johOc include SEQ ID NOS: 178-269, 1082-1120, 1575-1577, and 1975-2060. Markers identified in johOd include SEQ ID NOS: 270-370, 1121-1304, 1578-1592, and 2061-2244. Markers

identified in johOe include SEQ ID NOS: 371-611, 1305-1416, 1593-1596 and 2245-2487. Markers identified in johOf include SEQ ID NOS: 612-915, 1417-1565, 1597-1606, and 2488-2871. Of the markers listed in Table 1A, SEQ ID NOS: 2872-2976, 3817-3898, 4438-4443 and 4474-4675 were identified in library cMhOg. Markers identified in cMhOh include SEQ ID NOS: 2977-3376, 3899-4072, 4444-4455, and 4676-5303. Markers identified in cMhOi include SEQ ID NOS: 3377-3495, 4073-4158, 4456-4460, and 5304-5637. Markers identified in cMhOj include SEQ ID NOS: 3496-3742, 4195-4390, 4461-4468, and 5638-6197. Markers identified in cMhOk include SEQ ID NOS: 3743-3816, 4391-4437, 4469-4473 and 6198-6398.

VII. Summary Of The Data Provided In The Tables

Tables 1, 1A, 2 and 3 are being filed concurrently herewith on a compact disc in lieu of paper copies. The compact disc submitted is formatted from an IBM-PC and is compatible with MS-Windows. The disc contains the following four (4) files: Table1.text, containing 1,223kb, Table1A.text, containing 1,582kb, Table2.text, containing 10,600kb, and Table3.text, containing 568kb. The material on the compact disc, namely Tables 1, 1A, 2 and 3, is expressly incorporated by reference.

Tables 1 and 1A show 6398 novel nucleotide sequences. These 6398 novel sequences were determined to be novel through various BLAST searches of available databases. Of these novel markers, SEQ ID NOS: 1566 – 1606 and 4438-4473 are preferred, SEQ ID NOS: 916-1565 and 3817-4437 are more preferred, and SEQ ID NOS: 1 – 915 and 2872-3816 are most preferred.

The sequences of Tables 1 and 1A were re-interpreted and vector sequences removed and those sequences are set forth in Table 2.

Table 3 correlates the SEQ ID NOS. from Tables 1 and 1A with those of Table 2.

The contents of all references, patents, published patent applications, and databases cited throughout this application are hereby incorporated by reference.

Other Embodiments

Those skilled in the art will recognize, or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments of the invention

described herein. Such equivalents are intended to be encompassed by the following claims.

What is claimed is:

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Claims

1. An isolated nucleic acid molecule comprising a nucleotide sequence of Tables 1-2, or a complement thereof.

2. A vector which contains the nucleic acid molecule of claim 1.

3. A host cell which contains the nucleic acid molecule of claim 1.

4. An isolated polypeptide which is encoded by a nucleic acid molecule comprising a nucleotide sequence of Tables 1-2.

5. An antibody which selectively binds to a polypeptide of claim 4.

6. A method for producing a polypeptide comprising culturing the host cell of claim 3 under conditions in which the nucleic acid molecule is expressed.

7. A method for detecting the presence of a polypeptide of claim 4 in a sample comprising:

a) contacting the sample with a compound which selectively binds to the polypeptide; and

b) determining whether the compound binds to the polypeptide in the sample to thereby detect the presence of a polypeptide of claim 4 in the sample.

8. A kit comprising a compound which selectively binds to the polypeptide of claim 4.

9. A method for detecting the presence of a nucleic acid molecule of claim 1 in a sample comprising:

a) contacting the sample with a nucleic acid probe or primer which selectively hybridizes to the nucleic acid molecule; and

b) determining whether the nucleic acid probe or primer binds to a nucleic acid molecule in the sample to thereby detect the presence of a nucleic acid molecule of claim 1 in the sample.

10. The method of claim 9, wherein the sample comprises mRNA molecules and is contacted with a nucleic acid probe.

11. The method of claim 9, wherein the sample is isolated from ovarian tissue.

12. The method of claim 9, wherein the sample is a tumor sample.

13. A kit comprising a compound which selectively hybridizes to a nucleic acid molecule of claim 1.

14. A method of assessing whether a patient is afflicted with ovarian cancer, the method comprising comparing:

a) the level of expression of a marker in a patient sample, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and

b) the normal level of expression of the marker in a control non-ovarian cancer sample,

wherein a significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with ovarian cancer.

15. The method of claim 14, wherein the marker corresponds to a secreted protein.

16. The method of claim 14, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

17. The method of claim 14, wherein the sample comprises cells obtained from the patient.

18. The method of claim 17, wherein the sample is an ovarian tissue sample.

19. The method of claim 14, wherein the sample is an ovary-associated body fluid.

20. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a protein or protein fragment corresponding to the marker.

21. The method of claim 20, wherein the presence of the protein or protein fragment is detected using a reagent which specifically binds with the protein or protein fragment.

22. The method of claim 21, wherein the reagent is selected from the group consisting of an antibody, an antibody derivative, and an antibody fragment.

23. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide or portion thereof, wherein the transcribed polynucleotide comprises the marker.

24. The method of claim 23, wherein the transcribed polynucleotide is an mRNA.

25. The method of claim 23, wherein the transcribed polynucleotide is a cDNA.

26. The method of claim 23, wherein the step of detecting further comprises amplifying the transcribed polynucleotide.

27. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide which anneals with the marker or anneals with a portion of a polynucleotide wherein the polynucleotide comprises the marker, under stringent hybridization conditions.

28. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with ovarian cancer by a factor of at least about 2.

29. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with ovarian cancer by a factor of at least about 5.

30. The method of claim 14, comprising comparing:

a) the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-2, and

b) the normal level of expression of each of the plurality of markers in samples of the same type obtained from control humans not afflicted with ovarian cancer,

wherein the level of expression of more than one of the markers is significantly altered, relative to the corresponding normal levels of expression of the markers, is an indication that the patient is afflicted with ovarian cancer.

31. The method of claim 30, wherein the level of expression of each of the markers is significantly altered, relative to the corresponding normal levels of expression of the markers, is an indication that the patient is afflicted with ovarian cancer.

32. The method of claim 30, wherein the plurality comprises at least three of the markers.

33. The method of claim 30, wherein the plurality comprises at least five of the markers.

34. A method for monitoring the progression of ovarian cancer in a patient, the method comprising:

a) detecting in a patient sample at a first point in time, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2;

b) repeating step a) at a subsequent point in time; and

c) comparing the level of expression detected in steps a) and b), and therefrom monitoring the progression of ovarian cancer.

35. The method of claim 34, wherein the marker corresponds to a secreted protein.

36. The method of claim 34, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

37. The method of claim 34, wherein the sample comprises cells obtained from the patient.

38. The method of claim 37, wherein the patient sample is an ovarian tissue sample.

39. The method of claim 34, wherein between the first point in time and the subsequent point in time, the patient has undergone surgery to remove ovarian tissue.

40. A method of assessing the efficacy of a test compound for inhibiting ovarian cancer in a patient, the method comprising comparing:

a) expression of a marker in a first sample obtained from the patient and exposed to the test compound, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and

b) expression of the marker in a second sample obtained from the patient, wherein the sample is not exposed to the test compound,

wherein a significantly lower level of expression of the marker in the first sample, relative to the second sample, is an indication that the test compound is efficacious for inhibiting ovarian cancer in the patient.

41. The method of claim 40, wherein the first and second samples are portions of a single sample obtained from the patient.

42. The method of claim 40, wherein the first and second samples are portions of pooled samples obtained from the patient.

43. A method of assessing the efficacy of a therapy for inhibiting ovarian cancer in a patient, the method comprising comparing:

a) expression of a marker in the first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and

b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy,

wherein a significantly lower level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting ovarian cancer in the patient.

44. A method of selecting a composition for inhibiting ovarian cancer in a patient, the method comprising:

a) obtaining a sample comprising cancer cells from the patient;

b) separately exposing aliquots of the sample in the presence of a plurality of test compositions;

c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2; and

d) selecting one of the test compositions which alters the level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

45. A method of inhibiting ovarian cancer in a patient, the method comprising:

a) obtaining a sample comprising cancer cells from the patient;

b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;

c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2; and

d) administering to the patient at least one of the test compositions which alters the level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

46. A kit for assessing whether a patient is afflicted with ovarian cancer, the kit comprising reagents for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-2.

47. A kit for assessing the presence of ovarian cancer cells, the kit comprising a nucleic acid probe wherein the probe specifically binds with a transcribed polynucleotide corresponding to a marker selected from the group consisting of the markers listed in Tables 1-2.

48. A kit for assessing the suitability of each of a plurality of compounds for inhibiting ovarian cancer in a patient, the kit comprising:

a) the plurality of compounds; and

b) a reagent for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-2.

49. A method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with ovarian cancer, the method comprising:

isolating a protein or protein fragment corresponding to a marker selected from the group consisting of the markers listed in Tables 1-2;

immunizing a mammal using the isolated protein or protein fragment;

isolating splenocytes from the immunized mammal;

fusing the isolated splenocytes with an immortalized cell line to form hybridomas; and

screening individual hybridomas for production of an antibody which specifically binds with the protein or protein fragment to isolate the hybridoma.

50. An antibody produced by a hybridoma made by the method of claim 42.

51. A kit for assessing the presence of human ovarian cancer cells, the kit comprising an antibody, wherein the antibody specifically binds with a protein or protein fragment corresponding to a marker selected from the group consisting of the markers listed in Tables 1-2.

52. A method of assessing the ovarian cell carcinogenic potential of a test compound, the method comprising:

a) maintaining separate aliquots of ovarian cells in the presence and absence of the test compound; and

b) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2,

wherein a significantly altered level of expression of the marker in the aliquot maintained in the presence of the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound possesses human ovarian cell carcinogenic potential.

53. A kit for assessing the ovarian cell carcinogenic potential of a test compound, the kit comprising ovarian cells and a reagent for assessing expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2.

54. A method of inhibiting ovarian cancer in a patient at risk for developing ovarian cancer, the method comprising inhibiting expression of a gene corresponding to a marker selected from the markers listed in Tables 1-2.

55. A method of treating a patient afflicted with ovarian cancer, the method comprising providing to cells of the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker selected from the markers listed in Tables 1-2.

56. A method of inhibiting ovarian cancer in a patient at risk for developing ovarian cancer, the method comprising decreasing expression of a gene corresponding to a marker selected from the markers listed in Tables 1-2.

57. A method for determining whether ovarian cancer has metastasized in a patient, the method comprising comparing:

a) the level of expression of a marker in a patient smaple, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and

b) the normal level or non-metastatic level of expression of the marker in a control sample

wherein a significant difference betweent he level of expression in the patient sample and the normal level or non-metastatic level is an indication that the ovarian cancer has mestastasized.

58. The method of claim 57, wherein the marker corresponds to a secreted protein.

59. The method of claim 57, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

60. The method of claim 57, wherein the sample comprises cells obtained from the patient.

61. The method of claim 60, wherein the patient sample is an ovarian tissue sample.

62. A method for assessing the aggressiveness or indolence of ovarian cancer comprising comparing:

a) the level of expression of a marker in a sample, wherein at least one marker is selected from the markers of Tables 1-2, and

b) the normal level of expression of the marker in a control sample, wherein a significant difference between the level of expression in the sample and the normal level is an indication that the cancer is aggressive or indolent.

63. The method of claim 62, wherein the marker corresponds to a secreted protein.

64. The method of claim 62, wherein marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

65. The method of claim 62, wherein the sample comprises cells obtained from the patient.

66. The method of claim 65, wherein the patient sample is an ovarian tissue sample.

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
27 September 2001 (27.09.2001)

PCT

(10) International Publication Number
WO 01/070979 A3

(51) International Patent Classification[7]: C12N 15/12, C07K 14/47, C12Q 1/68, C07K 16/18, G01N 33/68, 33/574 // A61P 15/08, 35/00

(21) International Application Number: PCT/US01/09126

(22) International Filing Date: 21 March 2001 (21.03.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/191,031	21 March 2000 (21.03.2000)	US
60/207,124	25 May 2000 (25.05.2000)	US
60/211,940	15 June 2000 (15.06.2000)	US
60/216,820	7 July 2000 (07.07.2000)	US
60/220,661	25 July 2000 (25.07.2000)	US
60/257,672	21 December 2000 (21.12.2000)	US

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(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report: 4 July 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 01/070979 A3

(54) Title: GENES, COMPOSITIONS, KITS, AND METHOD FOR IDENTIFICATION, ASSESSMENT, PREVENTION AND THERAPY OF OVARIAN CANCER

(57) Abstract: The invention relates to compositions, kits, and methods for detecting, characterizing, preventing, and treating human ovarian cancers. A variety of novel markers are provided, wherein changes in the levels of expression of one or more of the markers is correlated with the presence of ovarian cancer.

INTERNATIONAL SEARCH REPORT

Interl. nal Application No
PCT/US 01/09126

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N15/12 C07K14/47 C12Q1/68 C07K16/18 G01N33/68
G01N33/574 //A61P15/08,35/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
BIOSIS, EPO-Internal, WPI Data, PAJ, SEQUENCE SEARCH

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EBI [Online] Hinxton, UK; 17 March 1999 (1999-03-17) Database accession no. AI494514; XP002188635 See nucleotides 1-277 ---	1-4
X	DATABASE EBI [Online] Hinxton, UK; 3 August 1999 (1999-08-03) Database accession no. AI934649 XP002188636 See nucleotides: 3-274 ---	1-4
A	DATABASE EBI [Online] Hinxton, UK; 14 February 2000 (2000-02-14) ABOLA ET AL.: Database accession no. AC023176 XP002188634 See nucleotides: 37515-37990 --- -/--	1-4

[X] Further documents are listed in the continuation of box C.

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Date of the actual completion of the international search	Date of mailing of the international search report
31 January 2002	08. 05. 2002

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European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Aslund, J

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Form PCT/ISA/210 (second sheet) (July 1992)

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 01 54472 A (HUMAN GENOME SCIENCES INC ;ROSEN CRAIG A (US); BARASH STEVEN C (US) 2 August 2001 (2001-08-02) Seq Id 23220 -& DATABASE EBI [Online] Hinxton, UK; 6 November 2001 (2001-11-06) Database accession no. AAK68408 XP002188671 ---	1-4
A	WO 00 04149 A (CORIXA CORP) 27 January 2000 (2000-01-27) the whole document ---	5-66
A	DE 198 17 557 A (METAGEN GES FUER GENOMFORSCHUN) 21 October 1999 (1999-10-21) the whole document ---	5-66
A	WANG K ET AL: "Monitoring gene expression profile changes in ovarian carcinomas using cDNA microarray" GENE, ELSEVIER BIOMEDICAL PRESS. AMSTERDAM, NL, vol. 229, no. 1-2, 18 March 1999 (1999-03-18), pages 101-108, XP004161163 ISSN: 0378-1119 the whole document ---	
A	US 5 583 110 A (ALTCHEK ALBERT ET AL) 10 December 1996 (1996-12-10) the whole document -----	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 01/09126

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. [X] Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 45, 54-56 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

2. [ ] Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. [ ] Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. [ ] As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. [ ] As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. [ ] As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. [X] No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

claims 1-66 partly

Remark on Protest

[ ] The additional search fees were accompanied by the applicant's protest.

[ ] No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: Claims 1-66 partly

An isolated nucleic acid molecule comprising the nucleotide sequence shown in SEQ.ID.No. 1 of Table 1; a vector and host comprising said nucleic acid; an isolated peptide encoded by said nucleic acid; an antibody which binds to said polypeptide; a method for producing said polypeptide; a method for detecting said polypeptide or said nucleic acid and their use in the diagnosis and treatment of ovarian cancer and for the screening of compounds which inhibit ovarian cancer.

Inventions 2-15640: Claims 1-66 partly

Idem invention 1, but for SEQ.ID.No. 2 to 15640 respectively, as set forth in Tables 1,2,3, wherein each sequence represents an individual invention, i.e. invention 2 relates to SEQ.ID.No.2,through to invention 15640 representing SEQ.ID.No.15640 based on the numbering given in Table 3.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US 01/09126

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PCT/US 01/09126

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(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
27 September 2001 (27.09.2001)

PCT

(10) International Publication Number
WO 01/070979 A3

(51) International Patent Classification[7]: C12N 15/12, C07K 14/47, C12Q 1/68, C07K 16/18, G01N 33/68, 33/574 // A61P 15/08, 35/00

(21) International Application Number: PCT/US01/09126

(22) International Filing Date: 21 March 2001 (21.03.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/191,031	21 March 2000 (21.03.2000)	US
60/207,124	25 May 2000 (25.05.2000)	US
60/211,940	15 June 2000 (15.06.2000)	US
60/216,820	7 July 2000 (07.07.2000)	US
60/220,661	25 July 2000 (25.07.2000)	US
60/257,672	21 December 2000 (21.12.2000)	US

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(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*

(88) Date of publication of the international search report:
4 July 2002

(48) Date of publication of this corrected version:
1 August 2002

(15) Information about Correction:
see PCT Gazette No. 31/2002 of 1 August 2002, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: GENES, COMPOSITIONS, KITS, AND METHOD FOR IDENTIFICATION, ASSESSMENT, PREVENTION AND THERAPY OF OVARIAN CANCER

(57) Abstract: The invention relates to compositions, kits, and methods for detecting, characterizing, preventing, and treating human ovarian cancers. A variety of novel markers are provided, wherein changes in the levels of expression of one or more of the markers is correlated with the presence of ovarian cancer.

WO 01/070979 A3

COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF OVARIAN CANCER

RELATED APPLICATIONS

The present application claims priority to U.S. provisional patent application serial no. 60/191,031 filed on March 21, 2000, U.S. provisional patent application serial no. 60/207,124, filed on May 25, 2000, U.S. provisional patent application serial no. 60/211,940, filed on June 15, 2000, U.S. provisional patent application serial no. 60/216,820, filed on July 7, 2000, U.S. provisional patent application serial no. 60/220,661, filed on July 25, 2000, and U.S. provisional patent application serial no. 60/257,672, filed on December 21, 2000, all of which are expressly incorporated by reference.

FIELD OF THE INVENTION

The field of the invention is ovarian cancer, including diagnosis, characterization, management, and therapy of ovarian cancer.

BACKGROUND OF THE INVENTION

Ovarian cancer is responsible for significant morbidity and mortality in populations around the world. Ovarian cancer is classified, on the basis of clinical and pathological features, in three groups, namely epithelial ovarian cancer (EOC; >90% of ovarian cancer in Western countries), germ cell tumors (*circa* 2-3% of ovarian cancer), and stromal ovarian cancer (*circa* 5% of ovarian cancer; Ozols *et al.*, 1997, *Cancer Principles and Practice of Oncology*, 5th ed., DeVita *et al.*, Eds. pp. 1502). Relative to EOC, germ cell tumors and stromal ovarian cancers are more easily detected and treated at an early stage, translating into higher/better survival rates for patients afflicted with these two types of ovarian cancer.

There are numerous types of ovarian tumors, some of which are benign, and others of which are malignant. Treatment (including non-treatment) options and predictions of patient outcome depend on accurate classification of the ovarian cancer. Ovarian cancers are named according to the type of cells from which the cancer is

derived and whether the ovarian cancer is benign or malignant. Recognized histological tumor types include, for example, serous, mucinous, endometrioid, and clear cell tumors. In addition, ovarian cancers are classified according to recognized grade and stage scales.

In grade I, the tumor tissue is well differentiated from normal ovarian tissue. In grade II, tumor tissue is moderately well differentiated. In grade III, the tumor tissue is poorly differentiated from normal tissue, and this grade correlates with a less favorable prognosis than grades I and II. Stage I is generally confined within the capsule surrounding one (stage IA) or both (stage IB) ovaries, although in some stage I (*i.e.* stage IC) cancers, malignant cells may be detected in ascites, in peritoneal rinse fluid, or on the surface of the ovaries. Stage II involves extension or metastasis of the tumor from one or both ovaries to other pelvic structures. In stage IIA, the tumor extends or has metastasized to the uterus, the fallopian tubes, or both. Stage IIB involves extension of the tumor to the pelvis. Stage IIC is stage IIA or IIB in which malignant cells may be detected in ascites, in peritoneal rinse fluid, or on the surface of the ovaries. In stage III, the tumor comprises at least one malignant extension to the small bowel or the omentum, has formed extrapelvic peritoneal implants of microscopic (stage IIIA) or macroscopic (< 2 centimeter diameter, stage IIIB; > 2 centimeter diameter, stage IIIC) size, or has metastasized to a retroperitoneal or inguinal lymph node (an alternate indicator of stage IIIC). In stage IV, distant (*i.e.* non-peritoneal) metastases of the tumor can be detected.

The durations of the various stages of ovarian cancer are not presently known, but are believed to be at least about a year each (Richart *et al.*, 1969, *Am. J. Obstet. Gynecol.* 105:386). Prognosis declines with increasing stage designation. For example, 5-year survival rates for patients diagnosed with stage I, II, III, and IV ovarian cancer are 80%, 57%, 25%, and 8%, respectively.

Despite being the third most prevalent gynecological cancer, ovarian cancer is the leading cause of death among those afflicted with gynecological cancers. The disproportionate mortality of ovarian cancer is attributable to a substantial absence of symptoms among those afflicted with early-stage ovarian cancer and to difficulty diagnosing ovarian cancer at an early stage. Patients afflicted with ovarian cancer most often present with non-specific complaints, such as abnormal vaginal bleeding,

gastrointestinal symptoms, urinary tract symptoms, lower abdominal pain, and generalized abdominal distension. These patients rarely present with paraneoplastic symptoms or with symptoms which clearly indicate their affliction. Presently, less than about 40% of patients afflicted with ovarian cancer present with stage I or stage II. Management of ovarian cancer would be significantly enhanced if the disease could be detected at an earlier stage, when treatments are much more generally efficacious.

Ovarian cancer may be diagnosed, in part, by collecting a routine medical history from a patient and by performing physical examination, x-ray examination, and chemical and hematological studies on the patient. Hematological tests which may be indicative of ovarian cancer in a patient include analyses of serum levels of proteins designated CA125 and DF3 and plasma levels of lysophosphatidic acid (LPA). Palpation of the ovaries and ultrasound techniques (particularly including endovaginal ultrasound and color Doppler flow ultrasound techniques) can aid detection of ovarian tumors and differentiation of ovarian cancer from benign ovarian cysts. However, a definitive diagnosis of ovarian cancer typically requires performing exploratory laparotomy of the patient.

Potential tests for the detection of ovarian cancer (*e.g.*, screening, reflex or monitoring) may be characterized by a number of factors. The "sensitivity" of an assay refers to the probability that the test will yield a positive result in an individual afflicted with ovarian cancer. The "specificity" of an assay refers to the probability that the test will yield a negative result in an individual not afflicted with ovarian cancer. The "positive predictive value" (PPV) of an assay is the ratio of true positive results (*i.e.* positive assay results for patients afflicted with ovarian cancer) to all positive results (*i.e.* positive assay results for patients afflicted with ovarian cancer + positive assay results for patients not afflicted with ovarian cancer). It has been estimated that in order for an assay to be an appropriate population-wide screening tool for ovarian cancer the assay must have a PPV of at least about 10% (Rosenthal *et al.*, 1998, *Sem. Oncol.* 25:315-325). It would thus be desirable for a screening assay for detecting ovarian cancer in patients to have a high sensitivity and a high PPV. Monitoring and reflex tests would also require appropriate specifications.

Owing to the cost, limited sensitivity, and limited specificity of known methods of detecting ovarian cancer, screening is not presently performed for the general population. In addition, the need to perform laparotomy in order to diagnose ovarian cancer in patients who screen positive for indications of ovarian cancer limits the desirability of population-wide screening, such that a PPV even greater than 10% would be desirable.

Prior use of serum CA125 level as a diagnostic marker for ovarian cancer indicated that this method exhibited insufficient specificity for use as a general screening method. Use of a refined algorithm for interpreting CA125 levels in serial retrospective samples obtained from patients improved the specificity of the method without shifting detection of ovarian cancer to an earlier stage (Skakes, 1995, *Cancer* 76:2004). Screening for LPA to detect gynecological cancers including ovarian cancer exhibited a sensitivity of about 96% and a specificity of about 89%. However, CA125-based screening methods and LPA-based screening methods are hampered by the presence of CA125 and LPA, respectively, in the serum of patients afflicted with conditions other than ovarian cancer. For example, serum CA125 levels are known to be associated with menstruation, pregnancy, gastrointestinal and hepatic conditions such as colitis and cirrhosis, pericarditis, renal disease, and various non-ovarian malignancies. Serum LPA is known, for example, to be affected by the presence of non-ovarian gynecological malignancies. A screening method having a greater specificity for ovarian cancer than the current screening methods for CA125 and LPA could provide a population-wide screening for early stage ovarian cancer.

Presently greater than about 60% of ovarian cancers diagnosed in patients are stage III or stage IV cancers. Treatment at these stages is largely limited to cytoreductive surgery (when feasible) and chemotherapy, both of which aim to slow the spread and development of metastasized tumor. Substantially all late stage ovarian cancer patients currently undergo combination chemotherapy as primary treatment, usually a combination of a platinum compound and a taxane. Median survival for responding patients is about one year. Combination chemotherapy involving agents such as doxorubicin, cyclophosphamide, cisplatin, hexamethylmelamine, paclitaxel, and methotrexate may improve survival rates in these groups, relative to single-agent therapies. Various recently-developed chemotherapeutic agents and treatment regimens

have also demonstrated usefulness for treatment of advanced ovarian cancer. For example, use of the topoisomerase I inhibitor topectan, use of amifostine to minimize chemotherapeutic side effects, and use of intraperitoneal chemotherapy for patients having peritoneally implanted tumors have demonstrated at least limited utility. Presently, however, the 5-year survival rate for patients afflicted with stage III ovarian cancer is 25%, and the survival rate for patients afflicted with stage IV ovarian cancer is 8%.

In summary, the earlier ovarian cancer is detected, the aggressiveness of therapeutic intervention and the side effects associated with therapeutic intervention are minimized. More importantly, the earlier the cancer is detected, the survival rate and quality of life of ovarian cancer patients is enhanced. Thus, a pressing need exists for methods of detecting ovarian cancer as early as possible. There also exists a need for methods of detecting recurrence of ovarian cancer as well as methods for predicting and monitoring the efficacy of treatment. The present invention satisfies these needs.

SUMMARY OF THE INVENTION

The invention relates to novel genes associated with ovarian cancer as well as methods of assessing whether a patient is afflicted with ovarian cancer. This method comprises the step of comparing the level of expression of a marker in a patient sample, wherein the marker is listed in Tables 1-2, and the normal level of expression of the marker in a control, *e.g.*, a sample from a patient without ovarian cancer. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with ovarian cancer. Preferably, a protein corresponding to the marker is a secreted protein. Alternatively, the marker can correspond to a protein having an extracellular portion, to one which is normally expressed in ovarian tissue at a detectable level, or both.

In one method, the marker(s) are preferably selected such that the positive predictive value of the method is at least about 10%. Also preferred are embodiments of the method wherein the marker is over- or under-expressed by at least two-fold in at least about 20% of stage I ovarian cancer patients, stage II ovarian cancer patients, stage III ovarian cancer patients, stage IV ovarian cancer patients, grade I ovarian cancer patients, grade II ovarian cancer patients, grade III ovarian cancer patients, epithelial

ovarian cancer patients, stromal ovarian cancer patients, germ cell ovarian cancer patients, malignant ovarian cancer patients, benign ovarian patients, serous neoplasm ovarian cancer patients, mucinous neoplasm ovarian cancer patients, endometrioid neoplasm ovarian cancer patients and/or clear cell neoplasm ovarian cancer patients.

In one embodiment of the methods of the present invention, the patient sample is an ovary-associated body fluid. Such fluids include, for example, blood fluids, lymph, ascitic fluids, gynecological fluids, cystic fluids, urine, and fluids collected by peritoneal rinsing. In another embodiment, the sample comprises cells obtained from the patient. In this embodiment, the cells may be found in a fluid selected from the group consisting of a fluid collected by peritoneal rinsing, a fluid collected by uterine rinsing, a uterine fluid, a uterine exudate, a pleural fluid, and an ovarian exudate. In another embodiment, the patient sample is *in vivo*.

In accordance with the methods of the present invention, the level of expression of the marker in a sample can be assessed, for example, by detecting the presence in the sample of :

- a protein corresponding to the marker or fragment of the protein (*e.g.* using a reagent, such as an antibody, an antibody derivative, or an antibody fragment, which binds specifically with the protein)
- a transcribed polynucleotide (*e.g.* an mRNA or a cDNA), or fragment thereof, having at least a portion with which the marker is substantially homologous (*e.g.* by contacting a mixture of transcribed polynucleotides obtained from the sample with a substrate having one or more of the markers listed in Tables 1-2 fixed thereto at selected positions)
- a transcribed polynucleotide or fragment thereof, wherein the polynucleotide anneals with the marker under stringent hybridization conditions.
- a metabolite which is produced directly (*i.e.*, catalyzed) or indirectly by a protein corresponding to the marker

The methods of the present invention are particularly useful for patients with an identified pelvic mass or symptoms associated with ovarian cancer. The methods of the present invention can also be of particular use with patients having an enhanced risk of developing ovarian cancer (*e.g.*, patients having a familial history of ovarian cancer,

patients identified as having a mutant oncogene, and patients at least about 50 years of age). The methods of the present invention may further be of particular use in monitoring the efficacy of treatment of an ovarian cancer patient (*e.g.* the efficacy of chemotherapy).

The methods of the present invention may be performed using a plurality (*e.g.* 2, 3, 5, or 10 or more) of markers. According to a method involving a plurality of markers, the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-2 is compared with the normal level of expression of each of the plurality of markers in samples of the same type obtained from control humans not afflicted with ovarian cancer. The markers of Tables 1-2 may also be used in combination with known ovarian cancer markers in the methods of the present invention.

In a preferred method of assessing whether a patient is afflicted with ovarian cancer (*e.g.*, new detection ("screening"), detection of recurrence, reflex testing), the method comprises comparing:

a) the level of expression of a marker in a patient sample, wherein at least one marker is selected from the markers of Tables 1-2, and

b) the normal level of expression of the marker in a control non-ovarian cancer sample.

A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with ovarian cancer.

The methods of the present invention further include a method of assessing the efficacy of a test compound for inhibiting ovarian cancer in a patient. This method comprises comparing:

a) expression of a marker in a first sample obtained from the patient and maintained in the presence of the test compound, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and

b) expression of the marker in a second sample obtained from the patient and maintained in the absence of the test compound.

A significant difference between the level of expression of the marker in the first sample, relative to the second sample, is an indication that the test compound is efficacious for inhibiting ovarian cancer in the patient. For example, the first and second samples can be portions of a single sample obtained from the patient or portions of pooled samples obtained from the patient.

The invention further relates to a method of assessing the efficacy of a therapy for inhibiting ovarian cancer in a patient. This method comprises comparing:

a) expression of a marker in a first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and

b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy.

A significant difference between the level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting ovarian cancer in the patient.

It will be appreciated that in these methods the "therapy" may be any traditional therapy for treating ovarian cancer including, but not limited to, chemotherapy, radiation therapy and surgical removal of tissue, *e.g.,* an ovarian tumor. Thus, the methods of the invention may be used to evaluate a patient before, during and after thereapy, for example, to evaluate the reduction in tumor burden.

The present invention therefore further comprises a method for monitoring the progression of ovarian cancer in a patient, the method comprising:

a) detecting in a patient sample at a first time point, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2;

b) repeating step a) at a subsequent time point in time; and

c) comparing the level of expression detected in steps a) and b), and therefrom monitoring the progression of ovarian cancer in the patient.

The invention also includes a method of selecting a composition for inhibiting ovarian cancer in a patient. This method comprises the steps of:

a) obtaining a sample comprising cancer cells from the patient;

b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;

c) comparing expression of a marker listed in Tables 1-2 in each of the aliquots; and

d) selecting one of the test compositions which alters the level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

In addition, the invention includes a method of inhibiting ovarian cancer in a patient. This method comprises the steps of:

a) obtaining a sample comprising cancer cells from the patient;

b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;

c) comparing expression of a marker listed in Tables 1-2 in each of the aliquots; and

d) administering to the patient at least one of the test compositions which alters the level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

The invention also includes a kit for assessing whether a patient is afflicted with ovarian cancer. This kit comprises reagents for assessing expression of a marker listed in Tables 1-2.

In another aspect, the invention relates to a kit for assessing the suitability of each of a plurality of compounds for inhibiting an ovarian cancer in a patient. The kit comprises a reagent for assessing expression of a marker listed in Tables 1-2, and may also comprise a plurality of compounds.

In another aspect, the invention relates to a kit for assessing the presence of ovarian cancer cells. This kit comprises an antibody, wherein the antibody binds specifically with a protein corresponding to a marker listed in Tables 1-2. The kit may also comprise a plurality of antibodies, wherein the plurality binds specifically with a protein corresponding to a different marker listed in Tables 1-2.

The invention also includes a kit for assessing the presence of ovarian cancer cells, wherein the kit comprises a nucleic acid probe. The probe binds specifically with a transcribed polynucleotide corresponding to a marker listed in Tables 1-2. The kit

may also comprise a plurality of probes, wherein each of the probes binds specifically with a transcribed polynucleotide corresponding to a different marker listed in Tables 1-2.

The invention further relates to a method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with ovarian cancer. The method comprises isolating a protein corresponding to a marker listed in Tables 1-2, immunizing a mammal using the isolated protein, isolating splenocytes from the immunized mammal, fusing the isolated splenocytes with an immortalized cell line to form hybridomas, and screening individual hybridomas for production of an antibody which specifically binds with the protein to isolate the hybridoma. The invention also includes an antibody produced by this method.

The invention further includes a method of assessing the ovarian carcinogenic potential of a test compound. This method comprises the steps of:

a) maintaining separate aliquots of ovarian cells in the presence and absence of the test compound; and

b) comparing expression of a marker in each of the aliquots.

The marker is selected from those listed in Tables 1-2. A significantly altered level of expression of the marker in the aliquot maintained in the presence of (or exposed to) the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound possesses ovarian carcinogenic potential.

Additionally, the invention includes a kit for assessing the ovarian carcinogenic potential of a test compound. The kit comprises ovarian cells and a reagent for assessing expression of a marker in each of the aliquots. The marker is selected from those listed in Tables 1-2.

The invention further relates to a method of treating a patient afflicted with ovarian cancer or at risk of developing ovarian cancer. This method comprises enhancing expression of a marker listed in Tables 1-2 or providing to cells of the patient a protein corresponding to a marker listed in Tables 1-2, wherein the marker is underexpressed in patients afflicted with ovarian cancer. The protein can be provided to the cells, for example, by providing a vector comprising a polynucleotide encoding the protein to the cells.

The invention includes another method of treating a patient afflicted with ovarian cancer or at risk of developing ovarian cancer. This method comprises inhibiting expression or overexpression of a marker listed in Tables 1-2 by, *e.g.*, providing to cells of the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker listed in Tables 1-2, wherein the marker is overexpressed in patients afflicted with ovarian cancer.

It will be appreciated that the methods and kits of the present invention may also include known cancer markers including known ovarian cancer markers. It will further be appreciated that the methods and kits may be used to identify cancers other than ovarian cancer.

DETAILED DESCRIPTION OF THE INVENTION

The invention relates to newly discovered genes associated with the cancerous state of ovarian cells. It has been discovered that the level of expression of individual genes, also referred to as markers, and combinations of these genes, correlates with the presence of ovarian cancer in a patient. Methods are provided for detecting the presence of ovarian cancer in a sample, the absence of ovarian cancer in a sample, the stage of an ovarian cancer, and with other characteristics of ovarian cancer that are relevant to prevention, diagnosis, characterization, and therapy of ovarian cancer in a patient.

Definitions

As used herein, each of the following terms has the meaning associated with it in this section.

The articles "a" and "an" are used herein to refer to one or to more than one (*i.e.* to at least one) of the grammatical object of the article. By way of example, "an element" means one element or more than one element.

A "marker" is a naturally-occurring polymer corresponding to at least one of the novel nucleic acids listed in Tables 1-2. For example, markers include, without limitation, sense and anti-sense strands of genomic DNA (*i.e.* including any introns occurring therein), RNA generated by transcription of genomic DNA (*i.e.* prior to splicing), RNA generated by splicing of RNA transcribed from genomic DNA, and proteins generated by translation of spliced RNA (*i.e.* including proteins both before and

after cleavage of normally cleaved regions such as transmembrane signal sequences). As used herein, "marker" may also include a cDNA made by reverse transcription of an RNA generated by transcription of genomic DNA (including spliced RNA).

The term "probe" refers to any molecule which is capable of selectively binding to a specifically intended target molecule, for example a marker of the invention. Probes can be either synthesized by one skilled in the art, or derived from appropriate biological preparations. For purposes of detection of the target molecule, probes may be specifically designed to be labeled, as described herein. Examples of molecules that can be utilized as probes include, but are not limited to, RNA, DNA, proteins, antibodies, and organic monomers.

An "ovary-associated" body fluid is a fluid which, when in the body of a patient, contacts or passes through ovarian cells or into which cells or proteins shed from ovarian cells *e.g,*. ovarian epithelium, are capable of passing. Exemplary ovary-associated body fluids include blood fluids, lymph, ascites, gynecological fluids, cystic fluid, urine, and fluids collected by peritoneal rinsing.

The "normal" level of expression of a marker is the level of expression of the marker in ovarian cells of a patient, *e.g.* a human, not afflicted with ovarian cancer.

"Over-expression" and "under-expression" of a marker refer to expression of the marker of a patient at a greater or lesser level, respectively, than normal level of expression of the marker (*e.g.* at least two-fold greater or lesser level).

As used herein, the term "promoter/regulatory sequence" means a nucleic acid sequence which is required for expression of a gene product operably linked to the promoter/regulatory sequence. In some instances, this sequence may be the core promoter sequence and in other instances, this sequence may also include an enhancer sequence and other regulatory elements which are required for expression of the gene product. The promoter/regulatory sequence may, for example, be one which expresses the gene product in a tissue-specific manner.

A "constitutive" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell under most or all physiological conditions of the cell.

An "inducible" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only when an inducer which corresponds to the promoter is present in the cell.

A "tissue-specific" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only if the cell is a cell of the tissue type corresponding to the promoter.

A "transcribed polynucleotide" is a polynucleotide (*e.g.* an RNA, a cDNA, or an analog of one of an RNA or cDNA) which is complementary to or homologous with all or a portion of a mature RNA made by transcription of a genomic DNA corresponding to a marker of the invention and normal post-transcriptional processing (*e.g.* splicing), if any, of the transcript.

"Complementary" refers to the broad concept of sequence complementarity between regions of two nucleic acid strands or between two regions of the same nucleic acid strand. It is known that an adenine residue of a first nucleic acid region is capable of forming specific hydrogen bonds ("base pairing") with a residue of a second nucleic acid region which is antiparallel to the first region if the residue is thymine or uracil. Similarly, it is known that a cytosine residue of a first nucleic acid strand is capable of base pairing with a residue of a second nucleic acid strand which is antiparallel to the first strand if the residue is guanine. A first region of a nucleic acid is complementary to a second region of the same or a different nucleic acid if, when the two regions are arranged in an antiparallel fashion, at least one nucleotide residue of the first region is capable of base pairing with a residue of the second region. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, when the first and second portions are arranged in an antiparallel fashion, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion. More preferably, all nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion.

"Homologous" as used herein, refers to nucleotide sequence similarity between two regions of the same nucleic acid strand or between regions of two different nucleic acid strands. When a nucleotide residue position in both regions is occupied by the same nucleotide residue, then the regions are homologous at that position. A first region is homologous to a second region if at least one nucleotide residue position of each region is occupied by the same residue. Homology between two regions is expressed in terms of the proportion of nucleotide residue positions of the two regions that are occupied by the same nucleotide residue. By way of example, a region having the nucleotide sequence 5'-ATTGCC-3' and a region having the nucleotide sequence 5'-TATGGC-3' share 50% homology. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residue positions of each of the portions are occupied by the same nucleotide residue. More preferably, all nucleotide residue positions of each of the portions are occupied by the same nucleotide residue.

A marker is "fixed" to a substrate if it is covalently or non-covalently associated with the substrate such the substrate can be rinsed with a fluid (*e.g.* standard saline citrate, pH 7.4) without a substantial fraction of the marker dissociating from the substrate.

As used herein, a "naturally-occurring" nucleic acid molecule refers to an RNA or DNA molecule having a nucleotide sequence that occurs in nature (*e.g.* encodes a natural protein).

Expression of a marker in a patient is "significantly" higher or lower than the normal level of expression of a marker if the level of expression of the marker is greater or less, respectively, than the normal level by an amount greater than the standard error of the assay employed to assess expression, and preferably at least twice, and more preferably three, four, five or ten times that amount. Alternately, expression of the marker in the patient can be considered "significantly" higher or lower than the normal level of expression if the level of expression is at least about two, and preferably at least about three, four, or five times, higher or lower, respectively, than the normal level of expression of the marker.

Ovarian cancer is "inhibited" if at least one symptom of the cancer is alleviated, terminated, slowed, or prevented. As used herein, ovarian cancer is also "inhibited" if recurrence or metastasis of the cancer is reduced, slowed, delayed, or prevented.

A kit is any manufacture (*e.g.* a package or container) comprising at least one reagent, *e.g.* a probe, for specifically detecting a marker of the invention, the manufacture being promoted, distributed, or sold as a unit for performing the methods of the present invention.

Description

The present invention is based, in part, on identification of novel markers which are over-expressed in ovarian cancer cells as compared to their expression in normal (*i.e.* non- cancerous) ovarian cells. The markers of the invention correspond to DNA, RNA, and polypeptide molecules which can be detected in one or both of normal and cancerous ovarian cells. The enhanced expression of one or more of these markers in ovarian cells is herein correlated with the cancerous state of the tissue. The invention thus includes compositions, kits, and methods for assessing the cancerous state of ovarian cells (*e.g.* cells obtained from a human, cultured human cells, archived or preserved human cells and *in vivo* cells).

The compositions, kits, and methods of the invention have the following uses, among others:

1) assessing whether a patient is afflicted with ovarian cancer;
2) assessing the stage of ovarian cancer in a human patient;
3) assessing the grade of ovarian cancer in a patient;
4) assessing the benign or malignant nature of ovarian cancer in a patient;
5) assessing the histological type of neoplasm (*e.g.* serous, mucinous, endometroid, or clear cell neoplasm) associated with ovarian cancer in a patient;
6) making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with ovarian cancer;
7) assessing the presence of ovarian cancer cells;
8) assessing the efficacy of one or more test compounds for inhibiting ovarian cancer in a patient;

9) assessing the efficacy of a therapy for inhibiting ovarian cancer in a patient;

10) monitoring the progression of ovarian cancer in a patient;

11) selecting a composition or therapy for inhibiting ovarian cancer in a patient;

12) treating a patient afflicted with ovarian cancer;

13) inhibiting ovarian cancer in a patient;

14) assessing the ovarian carcinogenic potential of a test compound; and

15) inhibiting an ovarian cancer in a patient at risk for developing ovarian cancer.

The invention thus includes a method of assessing whether a patient is afflicted with ovarian cancer. This method comprises comparing the level of expression of a marker in a patient sample and the normal level of expression of the marker in a control, *e.g.*, a non-ovarian cancer sample. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with ovarian cancer. The marker is selected from the group consisting of the markers listed in Tables 1-2.

The polynucleotides set forth in Tables 1-2 represent previously unidentified nucleotide sequences. These nucleotide sequences were identified through subtracted library experiments described herein. Also provided by this invention are polynucleotides that correspond to the polynucleotides of Tables 1-2. In one embodiment, these polynucleotides are obtained by identification of a larger fragment or full-length coding sequence of these polynucleotides. Gene delivery vehicles, host cells, compositions and databases (all described herein) containing these polynucleotides are also provided by this invention.

Any marker or combination of markers listed in Tables 1-2, as well as any known markers in combination with the markers set forth in Tables 1-2, may be used in the compositions, kits, and methods of the present invention. In general, it is preferable to use markers for which the difference between the level of expression of the marker in ovarian cancer cells and the level of expression of the same marker in normal ovarian

cells is as great as possible. Although this difference can be as small as the limit of detection of the method for assessing expression of the marker, it is preferred that the difference be at least greater than the standard error of the assessment method, and preferably a difference of at least 2-, 3-, 4-, 5-, 6-, 7-, 8-, 9-, 10-, 15-, 20-, 25-, 100-, 500-, 1000-fold or greater.

It is recognized that certain markers correspond to proteins which are secreted from ovarian cells (*i.e.* one or both of normal and cancerous cells) to the extracellular space surrounding the cells. These markers are preferably used in certain embodiments of the compositions, kits, and methods of the invention, owing to the fact that the protein corresponding to each of these markers can be detected in an ovary-associated body fluid sample, which may be more easily collected from a human patient than a tissue biopsy sample. In addition, preferred *in vivo* techniques for detection of a protein corresponding to a marker of the invention include introducing into a subject a labeled antibody directed against the protein. For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

It is a simple matter for the skilled artisan to determine whether any particular marker corresponds to a secreted protein. In order to make this determination, the protein corresponding to a marker is expressed in a test cell (*e.g.* a cell of an ovarian cell line), extracellular fluid is collected, and the presence or absence of the protein in the extracellular fluid is assessed (*e.g.* using a labeled antibody which binds specifically with the protein).

The following is an example of a method which can be used to detect secretion of a protein corresponding to a marker of the invention. About 8×10^5 293T cells are incubated at 37°C in wells containing growth medium (Dulbecco's modified Eagle's medium {DMEM} supplemented with 10% fetal bovine serum) under a 5% (v/v) CO_2, 95% air atmosphere to about 60-70% confluence. The cells are then transfected using a standard transfection mixture comprising 2 micrograms of DNA comprising an expression vector encoding the protein and 10 microliters of LipofectAMINE™ (GIBCO/BRL Catalog no. 18342-012) per well. The transfection mixture is maintained for about 5 hours, and then replaced with fresh growth medium and maintained in an air atmosphere. Each well is gently rinsed twice with DMEM which does not contain

methionine or cysteine (DMEM-MC; ICN Catalog no. 16-424- 54). About 1 milliliter of DMEM-MC and about 50 microcuries of Trans-^{35}S™ reagent (ICN Catalog no. 51006) are added to each well. The wells are maintained under the 5% CO_2 atmosphere described above and incubated at 37°C for a selected period. Following incubation, 150 microliters of conditioned medium is removed and centrifuged to remove floating cells and debris. The presence of the protein in the supernatant is an indication that the protein is secreted.

Examples of ovary-associated body fluids include blood fluids (*e.g.* whole blood, blood serum, blood having platelets removed therefrom, etc.), lymph, ascitic fluids, gynecological fluids (*e.g.* ovarian, fallopian, and uterine secretions, menses, vaginal douching fluids, fluids used to rinse cervical cell samples, etc.), cystic fluid, urine, and fluids collected by peritoneal rinsing (*e.g.* fluids applied and collected during laparoscopy or fluids instilled into and withdrawn from the peritoneal cavity of a human patient). In these embodiments, the level of expression of the marker can be assessed by assessing the amount (*e.g.* absolute amount or concentration) of the marker in an ovary-associated body fluid obtained from a patient. The fluid can, of course, be subjected to a variety of well-known post-collection preparative and storage techniques (*e.g.* storage, freezing, ultrafiltration, concentration, evaporation, centrifugation, etc.) prior to assessing the amount of the marker in the fluid.

Many ovary-associated body fluids (*i.e.* usually excluding urine) can have ovarian cells, *e.g.* ovarian epithelium, therein, particularly when the ovarian cells are cancerous, and, more particularly, when the ovarian cancer is metastasizing. Cell-containing fluids which can contain ovarian cancer cells include, but are not limited to, peritoneal ascites, fluids collected by peritoneal rinsing, fluids collected by uterine rinsing, uterine fluids such as uterine exudate and menses, pleural fluid, and ovarian exudates. Thus, the compositions, kits, and methods of the invention can be used to detect expression of markers corresponding to proteins having at least one portion which is displayed on the surface of cells which express it. Examples of such proteins are indicated in the Tables herein. Although not every protein having at least one cell-surface portion is indicated in the Tables, it is a simple matter for the skilled artisan to determine whether the protein corresponding to any particular marker comprises a cell-surface protein. For example, immunological methods may be used to detect such

proteins on whole cells, or well known computer-based sequence analysis methods (*e.g.* the SIGNALP program; Nielsen *et al.*, 1997, *Protein Engineering* 10:1-6) may be used to predict the presence of at least one extracellular domain (*i.e.* including both secreted proteins and proteins having at least one cell-surface domain). Expression of a marker corresponding to a protein having at least one portion which is displayed on the surface of a cell which expresses it may be detected without necessarily lysing the cell (*e.g.* using a labeled antibody which binds specifically with a cell-surface domain of the protein).

Expression of a marker of the invention may be assessed by any of a wide variety of well known methods for detecting expression of a transcribed molecule or protein. Non-limiting examples of such methods include immunological methods for detection of secreted, cell-surface, cytoplasmic, or nuclear proteins, protein purification methods, protein function or activity assays, nucleic acid hybridization methods, nucleic acid reverse transcription methods, and nucleic acid amplification methods.

In a preferred embodiment, expression of a marker is assessed using an antibody (*e.g.* a radio-labeled, chromophore-labeled, fluorophore-labeled, or enzyme-labeled antibody), an antibody derivative (*e.g.* an antibody conjugated with a substrate or with the protein or ligand of a protein-ligand pair {*e.g.* biotin-streptavidin}), or an antibody fragment (*e.g.* a single-chain antibody, an isolated antibody hypervariable domain, etc.) which binds specifically with a protein corresponding to the marker, such as the protein encoded by the open reading frame corresponding to the marker or such a protein which has undergone all or a portion of its normal post-translational modification.

In another preferred embodiment, expression of a marker is assessed by preparing mRNA/cDNA (*i.e.* a transcribed polynucleotide) from cells in a patient sample, and by hybridizing the mRNA/cDNA with a reference polynucleotide which is a complement of a polynucleotide comprising the marker, and fragments thereof. cDNA can, optionally, be amplified using any of a variety of polymerase chain reaction methods prior to hybridization with the reference polynucleotide; preferably, it is not amplified. Expression of one or more markers can likewise be detected using quantitative PCR to assess the level of expression of the marker(s). Alternatively, any of the many known methods of detecting mutations or variants (*e.g.* single nucleotide

polymorphisms, deletions, etc.) of a marker of the invention may be used to detect occurrence of a marker in a patient.

In a related embodiment, a mixture of transcribed polynucleotides obtained from the sample is contacted with a substrate having fixed thereto a polynucleotide complementary to or homologous with at least a portion (*e.g.* at least 7, 10, 15, 20, 25, 30, 40, 50, 100, 500, or more nucleotide residues) of a marker of the invention. If polynucleotides complementary to or homologous with are differentially detectable on the substrate (*e.g.* detectable using different chromophores or fluorophores, or fixed to different selected positions), then the levels of expression of a plurality of markers can be assessed simultaneously using a single substrate (*e.g.* a "gene chip" microarray of polynucleotides fixed at selected positions). When a method of assessing marker expression is used which involves hybridization of one nucleic acid with another, it is preferred that the hybridization be performed under stringent hybridization conditions.

Because the compositions, kits, and methods of the invention rely on detection of a difference in expression levels of one or more markers of the invention, it is preferable that the level of expression of the marker is significantly greater than the minimum detection limit of the method used to assess expression in at least one of normal ovarian cells and cancerous ovarian cells.

It is understood that by routine screening of additional patient samples using one or more of the markers of the invention, it will be realized that certain of the markers are over- or under-expressed in cancers of various types, including specific ovarian cancers, as well as other cancers such as breast cancer, cervical cancer, etc. For example, it will be confirmed that some of the markers of the invention are over- or under-expressed in most (*i.e.* 50% or more) or substantially all (*i.e.* 80% or more) of ovarian cancer. Furthermore, it will be confirmed that certain of the markers of the invention are associated with ovarian cancer of various stages (*i.e.* stage I, II, III, and IV ovarian cancers, as well as subclassifications IA, IB, IC, IIA, IIB, IIC, IIIA, IIIB, and IIIC, using the FIGO Stage Grouping system for primary carcinoma of the ovary; 1987, *Am. J. Obstet. Gynecol.* 156:236), of various histologic subtypes (*e.g.* serous, mucinous, endometroid, and clear cell subtypes, as well as subclassifications and alternate classifications adenocarcinoma, papillary adenocarcinoma, papillary cystadenocarcinoma, surface papillary carcinoma, malignant adenofibroma,

cystadenofibroma, adenocarcinoma, cystadenocarcinoma, adenoacanthoma, endometrioid stromal sarcoma, mesodermal (Müllerian) mixed tumor, mesonephroid tumor, malignant carcinoma, Brenner tumor, mixed epithelial tumor, and undifferentiated carcinoma, using the WHO/FIGO system for classification of malignant ovarian tumors; Scully, *Atlas of Tumor Pathology*, 3d series, Washington DC), and various grades (*i.e.* grade I {well differentiated} , grade II {moderately well differentiated}, and grade III {poorly differentiated from surrounding normal tissue}). In addition, as a greater number of patient samples are assessed for expression of the markers of the invention and the outcomes of the individual patients from whom the samples were obtained are correlated, it will also be confirmed that altered expression of certain of the markers of the invention are strongly correlated with malignant cancers and that altered expression of other markers of the invention are strongly correlated with benign tumors. The compositions, kits, and methods of the invention are thus useful for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of ovarian cancer in patients. In addition, these compositions, kits, and methods can be used to detect and differentiate epithelial, stromal, and germ cell ovarian cancers.

When the compositions, kits, and methods of the invention are used for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of ovarian cancer in a patient, it is preferred that the marker or panel of markers of the invention is selected such that a positive result is obtained in at least about 20%, and preferably at least about 40%, 60%, or 80%, and more preferably in substantially all patients afflicted with an ovarian cancer of the corresponding stage, grade, histological type, or benign/malignant nature. Preferably, the marker or panel of markers of the invention is selected such that a PPV of greater than about 10% is obtained for the general population (more preferably coupled with an assay specificity greater than 99.5%).

When a plurality of markers of the invention are used in the compositions, kits, and methods of the invention, the level of expression of each marker in a patient sample can be compared with the normal level of expression of each of the plurality of markers in non-cancerous samples of the same type, either in a single reaction mixture (*i.e.* using reagents, such as different fluorescent probes, for each marker) or in individual reaction mixtures corresponding to one or more of the markers. In one embodiment, a

significantly enhanced level of expression of more than one of the plurality of markers in the sample, relative to the corresponding normal levels, is an indication that the patient is afflicted with ovarian cancer. In another embodiment, a significantly lower level of expression in the sample of each of the plurality of markers, relative to the corresponding normal levels, is an indication that the patient is afflicted with ovarian cancer. In yet another embodiment, a significantly enhanced level of expression of one or more marks and a significantly lower level of expression of one or more markers in a sample relative to the corresponding normal levels, is an indication that the patient is afflicted with ovarian cancer. When a plurality of markers is used, it is preferred that 2, 3, 4, 5, 8, 10, 12, 15, 20, 30, or 50 or more individual markers be used, wherein fewer markers are preferred.

In order to maximize the sensitivity of the compositions, kits, and methods of the invention (*i.e.* by interference attributable to cells of non-ovarian origin in a patient sample), it is preferable that the marker of the invention used therein be a marker which has a restricted tissue distribution, *e.g.,* normally not expressed in a non-epithelial tissue, and more preferably a marker which is normally not expressed in a non-ovarian tissue.

Only a small number of markers are known to be associated with ovarian cancers (*e.g. AKT2*, *Ki-RAS*, *ERBB2*, *c-MYC*, *RB1*, and *TP53*; Lynch, *supra*). These markers are not, of course, included among the markers of the invention, although they may be used together with one or more markers of the invention in a panel of markers, for example. It is well known that certain types of genes, such as oncogenes, tumor suppressor genes, growth factor-like genes, protease-like genes, and protein kinase-like genes are often involved with development of cancers of various types. Thus, among the markers of the invention, use of those which correspond to proteins which resemble known proteins encoded by known oncogenes and tumor suppressor genes, and those which correspond to proteins which resemble growth factors, proteases, and protein kinases are preferred.

Known oncogenes and tumor suppressor genes include, for example, *abl*, *abr*, *akt2*, *apc*, *bcl2α*, *bcl2β*, *bcl3*, *bcr*, *brca1*, *brca2*, *cbl*, *ccnd1*, *cdc42*, *cdk4*, *crk- II*, *csf1r/fms*, *dbl*, *dcc*, *dpc4/smad4*, *e-cad*, *e2f1/rbap*, *egfr/erbb-1*, *elk1*, *elk3*, *eph*, *erg*, *ets1*, *ets2*, *fer*, *fgr/src2*, *fli1/ergb2*, *fos*, *fps/fes*, *fra1*, *fra2*, *fyn*, *hck*, *hek*, *her2/erbb- 2/neu*, *her3/erbb-3*, *her4/erbb-4*, *hras1*, *hst2*, *hstf1*, *igfbp2*, *ink4a*, *ink4b*, *int2/fgf3*, *jun*, *junb*, *jund*, *kip2*, *kit*, *kras2a*, *kras2b*, *lck*, *lyn*, *mas*, *max*, *mcc*, *mdm2*, *met*, *mlh1*, *mmp10*, *mos*,

msh2, *msh3*, *msh6*, *myb*, *myba*, *mybb*, *myc*, *mycl1*, *mycn*, *nf1*, *nf2*, *nme2*, *nras*, *p53*, *pdgfb*, *phb*, *pim1*, *pms1*, *pms2*, *ptc*, *pten*, *raf1*, *rap1a*, *rb1*, *rel*, *ret*, *ros1*, *ski*, *src1*, *tal1*, *tgfbr2*, *tgfb3*, *tgfbr3*, *thra1*, *thrb*, *tiam1*, *timp3*, *tjp1*, *tp53*, *trk*, *vav*, *vhl*, *vil2*, *waf1*, *wnt1*, *wnt2*, *wt1*, and *yes1* (Hesketh, 1997, In: *The Oncogene and Tumour Suppressor Gene Facts Book*, 2nd Ed., Academic Press; Fishel *et al.*, 1994, *Science* 266:1403-1405).

Known growth factors include platelet-derived growth factor alpha, platelet-derived growth factor beta (simian sarcoma viral {v-sis} oncogene homolog), thrombopoietin (myeloproliferative leukemia virus oncogene ligand, megakaryocyte growth and development factor), erythropoietin, B cell growth factor, macrophage stimulating factor 1 (hepatocyte growth factor-like protein), hepatocyte growth factor (hepapoietin A), insulin-like growth factor 1 (somatomedia C), hepatoma-derived growth factor, amphiregulin (schwannoma-derived growth factor), bone morphogenetic proteins 1, 2, 3, 3 beta, and 4, bone morphogenetic protein 7 (osteogenic protein 1), bone morphogenetic protein 8 (osteogenic protein 2), connective tissue growth factor, connective tissue activation peptide 3, epidermal growth factor (EGF), teratocarcinoma-derived growth factor 1, endothelin, endothelin 2, endothelin 3, stromal cell-derived factor 1, vascular endothelial growth factor (VEGF), VEGF-B, VEGF-C, placental growth factor (vascular endothelial growth factor-related protein), transforming growth factor alpha, transforming growth factor beta 1 and its precursors, transforming growth factor beta 2 and its precursors, fibroblast growth factor 1 (acidic), fibroblast growth factor 2 (basic), fibroblast growth factor 5 and its precursors, fibroblast growth factor 6 and its precursors, fibroblast growth factor 7 (keratinocyte growth factor), fibroblast growth factor 8 (androgen-induced), fibroblast growth factor 9 (glia-activating factor), pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1), brain-derived neurotrophic factor, and recombinant glial growth factor 2.

Known proteases include interleukin-1 beta convertase and its precursors, Mch6 and its precursors, Mch2 isoform alpha, Mch4, Cpp32 isoform alpha, Lice2 gamma cysteine protease, Ich-1S, Ich-1L, Ich-2 and its precursors, TY protease, matrix metalloproteinase 1 (interstitial collagenase), matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IV collagenase), matrix metalloproteinase 7 (matrilysin), matrix metalloproteinase 8 (neutrophil collagenase), matrix metalloproteinase 12 (macrophage elastase), matrix metalloproteinase 13 (collagenase 3), metallopeptidase 1,

cysteine-rich metalloprotease (disintegrin) and its precursors, subtilisin-like protease Pc8 and its precursors, chymotrypsin, snake venom-like protease, cathepsin l, cathepsin D (lysosomal aspartyl protease), stromelysin, aminopeptidase N, plasminogen, tissue plasminogen activator, plasminogen activator inhibitor type II, and urokinase-type plasminogen activator.

Known protein kinases include DAP kinase, serine/threonine protein kinases NIK, PK428, Krs-2, SAK, and EMK, interferon-inducible double stranded RNA dependent protein kinase, FAST kinase, AIM1, IPL1-like midbody-associated protein kinase-1, NIMA-like protein kinase 1 (NLK1), the cyclin-dependent kinases (cdk1-10), checkpoint kinase Chk1, Nek3 protein kinase, BMK1 beta kinase, Clk1, Clk2, Clk3, extracellular signal-regulated kinases 1, 3, and 6, cdc28 protein kinase 1, cdc28 protein kinase 2, pLK, Myt1, c-Jun N-terminal kinase 2, Cam kinase 1, the MAP kinases, insulin-stimulated protein kinase 1, beta-adrenergic receptor kinase 2, ribosomal protein S6 kinase, kinase suppressor of ras-1 (KSR1), putative serine/threonine protein kinase Prk, PkB kinase, cAMP-dependent protein kinase, cGMP-dependent protein kinase, type II cGMP-dependent protein kinase, protein kinases Dyrk2, Dyrk3, and Dyrk4, Rho-associated coiled-coil containing protein kinase p160ROCK, protein tyrosine kinase t-Ror1, Ste20-related kinases, cell adhesion kinase beta, protein kinase 3, stress-activated protein kinase 4, protein kinase Zpk, serine kinase hPAK65, dual specificity mitogen-activated protein kinases 1 and 2, casein kinase I gamma 2, p21-activated protein kinase Pak1, lipid-activated protein kinase PRK2, focal adhesion kinase, dual-specificity tyrosine-phosphorylation regulated kinase, myosin light chain kinase, serine kinases SRPK2, TESK1, and VRK2, B lymphocyte serine/threonine protein kinase, stress-activated protein kinases JNK1 and JNK2, phosphorylase kinase, protein tyrosine kinase Tec, Jak2 kinase, protein kinase Ndr, MEK kinase 3, SHB adaptor protein (a Src homology 2 protein), agammaglobulinaemia protein-tyrosine kinase (Atk), protein kinase ATR, guanylate kinase 1, thrombopoeitin receptor and its precursors, DAG kinase epsilon, and kinases encoded by oncogenes or viral oncogenes such as v-fgr (Gardner-Rasheed), v-abl (Abelson murine leukemia viral oncogene homolog 1), v-arg (Abelson murine leukemia viral oncogene homolog, Abelson-related gene), v-fes and v-fps (feline sarcoma viral oncogene and Fujinami avian sarcoma viral oncogene homologs), proto-oncogene c-*cot*, oncogene *pim*-1, and oncogene *mas1*.

It is recognized that the compositions, kits, and methods of the invention will be of particular utility to patients having an enhanced risk of developing ovarian cancer and their medical advisors. Patients recognized as having an enhanced risk of developing ovarian cancer include, for example, patients having a familial history of ovarian cancer, patients identified as having a mutant oncogene (*i.e.* at least one allele), and patients of advancing age (*i.e.* women older than about 50 or 60 years).

The level of expression of a marker in normal (*i.e.* non-cancerous) human ovarian tissue can be assessed in a variety of ways. In one embodiment, this normal level of expression is assessed by assessing the level of expression of the marker in a portion of ovarian cells which appears to be non-cancerous and by comparing this normal level of expression with the level of expression in a portion of the ovarian cells which is suspected of being cancerous. For example, when laparoscopy or other medical procedure, reveals the presence of a lump on one portion of a patient's ovary, but not on another portion of the same ovary or on the other ovary, the normal level of expression of a marker may be assessed using one or both or the non-affected ovary and a non-affected portion of the affected ovary, and this normal level of expression may be compared with the level of expression of the same marker in an affected portion (*i.e.* the lump) of the affected ovary. Alternately, and particularly as further information becomes available as a result of routine performance of the methods described herein, population-average values for normal expression of the markers of the invention may be used. In other embodiments, the 'normal' level of expression of a marker may be determined by assessing expression of the marker in a patient sample obtained from a non-cancer-afflicted patient, from a patient sample obtained from a patient before the suspected onset of ovarian cancer in the patient, from archived patient samples, and the like.

The invention includes compositions, kits, and methods for assessing the presence of ovarian cancer cells in a sample (*e.g.* an archived tissue sample or a sample obtained from a patient). These compositions, kits, and methods are substantially the same as those described above, except that, where necessary, the compositions, kits, and methods are adapted for use with samples other than patient samples. For example, when the sample to be used is a parafinized, archived human tissue sample, it can be necessary to adjust the ratio of compounds in the compositions of the invention, in the

kits of the invention, or the methods used to assess levels of marker expression in the sample. Such methods are well known in the art and within the skill of the ordinary artisan.

The invention includes a kit for assessing the presence of ovarian cancer cells (*e.g.* in a sample such as a patient sample). The kit comprises a plurality of reagents, each of which is capable of binding specifically with a nucleic acid or polypeptide corresponding to a marker of the invention. Suitable reagents for binding with a polypeptide corresponding to a marker of the invention include antibodies, antibody derivatives, antibody fragments, and the like. Suitable reagents for binding with a nucleic acid (*e.g.* a genomic DNA, an mRNA, a spliced mRNA, a cDNA, or the like) include complementary nucleic acids. For example, the nucleic acid reagents may include oligonucleotides (labeled or non-labeled) fixed to a substrate, labeled oligonucleotides not bound with a substrate, pairs of PCR primers, molecular beacon probes, and the like.

The kit of the invention may optionally comprise additional components useful for performing the methods of the invention. By way of example, the kit may comprise fluids (*e.g.* SSC buffer) suitable for annealing complementary nucleic acids or for binding an antibody with a protein with which it specifically binds, one or more sample compartments, an instructional material which describes performance of a method of the invention, a sample of normal ovarian cells, a sample of ovarian cancer cells, and the like.

The invention also includes a method of making an isolated hybridoma which produces an antibody useful for assessing whether patient is afflicted with an ovarian cancer. In this method, a protein corresponding to a marker of the invention is isolated (*e.g.* by purification from a cell in which it is expressed or by transcription and translation of a nucleic acid encoding the protein *in vivo* or *in vitro* using known methods). A vertebrate, preferably a mammal such as a mouse, rat, rabbit, or sheep, is immunized using the isolated protein. The vertebrate may optionally (and preferably) be immunized at least one additional time with the isolated protein, so that the vertebrate exhibits a robust immune response to the protein. Splenocytes are isolated from the immunized vertebrate and fused with an immortalized cell line to form hybridomas, using any of a variety of methods well known in the art. Hybridomas formed in this

manner are then screened using standard methods to identify one or more hybridomas which produce an antibody which specifically binds with the protein. The invention also includes hybridomas made by this method and antibodies made using such hybridomas.

The invention also includes a method of assessing the efficacy of a test compound for inhibiting ovarian cancer cells. As described above, differences in the level of expression of the markers of the invention correlate with the cancerous state of ovarian cells. Although it is recognized that changes in the levels of expression of certain of the markers of the invention likely result from the cancerous state of ovarian cells, it is likewise recognized that changes in the levels of expression of other of the markers of the invention induce, maintain, and promote the cancerous state of those cells. Thus, compounds which inhibit an ovarian cancer in a patient will cause the level of expression of one or more of the markers of the invention to change to a level nearer the normal level of expression for that marker (*i.e.* the level of expression for the marker in non-cancerous ovarian cells).

This method thus comprises comparing expression of a marker in a first ovarian cell sample and maintained in the presence of the test compound and expression of the marker in a second ovarian cell sample and maintained in the absence of the test compound. A significant alteration in the level of expression of a marker listed in Tables 1-2 is an indication that the test compound inhibits ovarian cancer. The ovarian cell samples may, for example, be aliquots of a single sample of normal ovarian cells obtained from a patient, pooled samples of normal ovarian cells obtained from a patient, cells of a normal ovarian cell line, aliquots of a single sample of ovarian cancer cells obtained from a patient, pooled samples of ovarian cancer cells obtained from a patient, cells of an ovarian cancer cell line, or the like. In one embodiment, the samples are ovarian cancer cells obtained from a patient and a plurality of compounds known to be effective for inhibiting various ovarian cancers are tested in order to identify the compound which is likely to best inhibit the ovarian cancer in the patient.

This method may likewise be used to assess the efficacy of a therapy for inhibiting ovarian cancer in a patient. In this method, the level of expression of one or more markers of the invention in a pair of samples (one subjected to the therapy, the other not subjected to the therapy) is assessed. As with the method of assessing the

efficacy of test compounds, if the therapy induces a significant alteration in the level of expression of a marker listed in Tables 1-2 then the therapy is efficacious for inhibiting ovarian cancer. As above, if samples from a selected patient are used in this method, then alternative therapies can be assessed *in vitro* in order to select a therapy most likely to be efficacious for inhibiting ovarian cancer in the patient.

As described herein, ovarian cancer in patients is associated with an altereration in the level of expression of one or more markers listed in Tables 1-2. While, as discussed above, some of these changes in expression level result from occurrence of the ovarian cancer, others of these changes induce, maintain, and promote the cancerous state of ovarian cancer cells. Thus, ovarian cancer characterized by an increase in the level of expression of one or more markers listed in either or both of Tables 1-2 can be inhibited by inhibiting expression of those markers.

Expression of a marker listed in Tables 1-2 can be inhibited in a number of ways generally known in the art. For example, an antisense oligonucleotide can be provided to the ovarian cancer cells in order to inhibit transcription, translation, or both, of the marker(s). Alternately, a polynucleotide encoding an antibody, an antibody derivative, or an antibody fragment, and operably linked with an appropriate promoter/regulator region, can be provided to the cell in order to generate intracellular antibodies which will inhibit the function or activity of the protein corresponding to the marker(s). Using the methods described herein, a variety of molecules, particularly including molecules sufficiently small that they are able to cross the cell membrane, can be screened in order to identify molecules which inhibit expression of the marker(s). The compound so identified can be provided to the patient in order to inhibit expression of the marker(s) in the ovarian cancer cells of the patient.

Expression of a marker listed in Tables 1-2 can be enhanced in a number of ways generally known in the art. For example, a polynucleotide encoding the marker and operably linked with an appropriate promoter/regulator region can be provided to ovarian cancer cells of the patient in order to induce enhanced expression of the protein (and mRNA) corresponding to the marker therein. Alternatively, if the protein is capable of crossing the cell membrane, inserting itself in the cell membrane, or is normally a secreted protein, then expression of the protein can be enhanced by providing

the protein (*e.g.* directly or by way of the bloodstream or another ovary-associated fluid) to ovarian cancer cells in the patient.

As described above, the cancerous state of human ovarian cells is correlated with changes in the levels of expression of the markers of the invention. The invention includes a method for assessing the human ovarian cell carcinogenic potential of a test compound. This method comprises maintaining separate aliquots of human ovarian cells in the presence and absence of the test compound. Expression of a marker of the invention in each of the aliquots is compared. A significant alteration in the level of expression of a marker listed in Tables 1-2 in the aliquot maintained in the presence of the test compound (relative to the aliquot maintained in the absence of the test compound) is an indication that the test compound possesses human ovarian cell carcinogenic potential. The relative carcinogenic potentials of various test compounds can be assessed by comparing the degree of enhancement or inhibition of the level of expression of the relevant markers, by comparing the number of markers for which the level of expression is enhanced or inhibited, or by comparing both.

Various aspects of the invention are described in further detail in the following subsections.

I. Isolated Nucleic Acid Molecules

One aspect of the invention pertains to novel isolated nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention or a portion of such a polypeptide. Isolated nucleic acids of the invention also include nucleic acid molecules sufficient for use as hybridization probes to identify nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention, and fragments of such nucleic acid molecules, *e.g.*, those suitable for use as PCR primers for the amplification or mutation of nucleic acid molecules. As used herein, the term "nucleic acid molecule" is intended to include DNA molecules (*e.g.*, cDNA or genomic DNA) and RNA molecules (*e.g.*, mRNA) and analogs of the DNA or RNA generated using nucleotide analogs. The nucleic acid molecule can be single-stranded or double-stranded, but preferably is double-stranded DNA.

An "isolated" nucleic acid molecule is one which is separated from other nucleic acid molecules which are present in the natural source of the nucleic acid molecule. Preferably, an "isolated" nucleic acid molecule is free of sequences (preferably protein-encoding sequences) which naturally flank the nucleic acid (*i.e.*, sequences located at the 5' and 3' ends of the nucleic acid) in the genomic DNA of the organism from which the nucleic acid is derived. For example, in various embodiments, the isolated nucleic acid molecule can contain less than about 5 kB, 4 kB, 3 kB, 2 kB, 1 kB, 0.5 kB or 0.1 kB of nucleotide sequences which naturally flank the nucleic acid molecule in genomic DNA of the cell from which the nucleic acid is derived. Moreover, an "isolated" nucleic acid molecule, such as a cDNA molecule, can be substantially free of other cellular material, or culture medium when produced by recombinant techniques, or substantially free of chemical precursors or other chemicals when chemically synthesized.

A nucleic acid molecule of the present invention can be isolated using standard molecular biology techniques and the sequence information in the database records described herein. Using all or a portion of such nucleic acid sequences, nucleic acid molecules of the invention can be isolated using standard hybridization and cloning techniques (*e.g.*, as described in Sambrook *et al.*, ed., *Molecular Cloning: A Laboratory Manual, 2nd ed.*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1989).

A nucleic acid molecule of the invention can be amplified using cDNA, mRNA, or genomic DNA as a template and appropriate oligonucleotide primers according to standard PCR amplification techniques. The nucleic acid so amplified can be cloned into an appropriate vector and characterized by DNA sequence analysis. Furthermore, oligonucleotides corresponding to all or a portion of a nucleic acid molecule of the invention can be prepared by standard synthetic techniques, *e.g.*, using an automated DNA synthesizer.

In another preferred embodiment, an isolated nucleic acid molecule of the invention comprises a nucleic acid molecule which has a nucleotide sequence complementary to the nucleotide sequence of a nucleic acid corresponding to a marker of the invention or to the nucleotide sequence of a nucleic acid encoding a protein which corresponds to a marker of the invention. A nucleic acid molecule which is complementary to a given nucleotide sequence is one which is sufficiently

complementary to the given nucleotide sequence that it can hybridize to the given nucleotide sequence thereby forming a stable duplex.

Moreover, a nucleic acid molecule of the invention can comprise only a portion of a nucleic acid sequence, wherein the full length nucleic acid sequence comprises a marker of the invention or which encodes a polypeptide corresponding to a marker of the invention. Such nucleic acids can be used, for example, as a probe or primer. The probe/primer typically is used as one or more substantially purified oligonucleotides. The oligonucleotide typically comprises a region of nucleotide sequence that hybridizes under stringent conditions to at least about 7, preferably about 15, more preferably about 25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, or 400 or more consecutive nucleotides of a nucleic acid of the invention.

Probes based on the sequence of a nucleic acid molecule of the invention can be used to detect transcripts or genomic sequences corresponding to one or more markers of the invention. The probe comprises a label group attached thereto, *e.g.*, a radioisotope, a fluorescent compound, an enzyme, or an enzyme co-factor. Such probes can be used as part of a diagnostic test kit for identifying cells or tissues which mis-express the protein, such as by measuring levels of a nucleic acid molecule encoding the protein in a sample of cells from a subject, *e.g.*, detecting mRNA levels or determining whether a gene encoding the protein has been mutated or deleted.

The invention further encompasses nucleic acid molecules that differ, due to degeneracy of the genetic code, from the nucleotide sequence of nucleic acids encoding a protein which corresponds to a marker of the invention, and thus encode the same protein.

It will be appreciated by those skilled in the art that DNA sequence polymorphisms that lead to changes in the amino acid sequence can exist within a population (*e.g.*, the human population). Such genetic polymorphisms can exist among individuals within a population due to natural allelic variation. An allele is one of a group of genes which occur alternatively at a given genetic locus. In addition, it will be appreciated that DNA polymorphisms that affect RNA expression levels can also exist that may affect the overall expression level of that gene (*e.g.*, by affecting regulation or degradation).

As used herein, the phrase "allelic variant" refers to a nucleotide sequence which occurs at a given locus or to a polypeptide encoded by the nucleotide sequence.

As used herein, the terms "gene" and "recombinant gene" refer to nucleic acid molecules comprising an open reading frame encoding a polypeptide corresponding to a marker of the invention. Such natural allelic variations can typically result in 1-5% variance in the nucleotide sequence of a given gene. Alternative alleles can be identified by sequencing the gene of interest in a number of different individuals. This can be readily carried out by using hybridization probes to identify the same genetic locus in a variety of individuals. Any and all such nucleotide variations and resulting amino acid polymorphisms or variations that are the result of natural allelic variation and that do not alter the functional activity are intended to be within the scope of the invention.

In another embodiment, an isolated nucleic acid molecule of the invention is at least 7, 15, 20, 25, 30, 40, 60, 80, 100, 150, 200, 250, 300, 350, 400, 450, 550, 650, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000, 3500, 4000, 4500, or more nucleotides in length and hybridizes under stringent conditions to a nucleic acid corresponding to a marker of the invention or to a nucleic acid encoding a protein corresponding to a marker of the invention. As used herein, the term "hybridizes under stringent conditions" is intended to describe conditions for hybridization and washing under which nucleotide sequences at least 75% (80%, 85%, preferably 90%) identical to each other typically remain hybridized to each other. Such stringent conditions are known to those skilled in the art and can be found in sections 6.3.1-6.3.6 of *Current Protocols in Molecular Biology*, John Wiley & Sons, N.Y. (1989). A preferred, non-limiting example of stringent hybridization conditions for annealing two single-stranded DNA each of which is at least about 100 bases in length and/or for annealing a single-stranded DNA and a single-stranded RNA each of which is at least about 100 bases in length, are hybridization in 6X sodium chloride/sodium citrate (SSC) at about 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 50-65°C. Further preferred hybridization conditions are taught in Lockhart, *et al.,* Nature Biotechnology, Volume 14, 1996 August:1675-1680; Breslauer, *et al.,* Proc. Natl. Acad. Sci. USA, Volume 83, 1986 June: 3746-3750; Van Ness, *et al.,* Nucleic Acids Research, Volume 19, No. 19, 1991 September: 5143-5151; McGraw, *et al.,* BioTechniques,

Volume 8, No. 6 1990: 674-678; and Milner, *et al.,* Nature Biotechnology, Volume 15, 1997 June: 537-541, all expressly incorporated by reference.

In addition to naturally-occurring allelic variants of a nucleic acid molecule of the invention that can exist in the population, the skilled artisan will further appreciate that sequence changes can be introduced by mutation thereby leading to changes in the amino acid sequence of the encoded protein, without altering the biological activity of the protein encoded thereby. For example, one can make nucleotide substitutions leading to amino acid substitutions at "non-essential" amino acid residues. A "non-essential" amino acid residue is a residue that can be altered from the wild-type sequence without altering the biological activity, whereas an "essential" amino acid residue is required for biological activity. For example, amino acid residues that are not conserved or only semi-conserved among homologs of various species may be non-essential for activity and thus would be likely targets for alteration. Alternatively, amino acid residues that are conserved among the homologs of various species (*e.g.*, murine and human) may be essential for activity and thus would not be likely targets for alteration.

Accordingly, another aspect of the invention pertains to nucleic acid molecules encoding a polypeptide of the invention that contain changes in amino acid residues that are not essential for activity. Such polypeptides differ in amino acid sequence from the naturally-occurring proteins which correspond to the markers of the invention, yet retain biological activity. In one embodiment, such a protein has an amino acid sequence that is at least about 40% identical, 50%, 60%, 70%, 80%, 90%, 95%, or 98% identical to the amino acid sequence of one of the proteins which correspond to the markers of the invention.

An isolated nucleic acid molecule encoding a variant protein can be created by introducing one or more nucleotide substitutions, additions or deletions into the nucleotide sequence of nucleic acids of the invention, such that one or more amino acid residue substitutions, additions, or deletions are introduced into the encoded protein. Mutations can be introduced by standard techniques, such as site-directed mutagenesis and PCR-mediated mutagenesis. Preferably, conservative amino acid substitutions are made at one or more predicted non-essential amino acid residues. A "conservative amino acid substitution" is one in which the amino acid residue is replaced with an

amino acid residue having a similar side chain. Families of amino acid residues having similar side chains have been defined in the art. These families include amino acids with basic side chains (*e.g.*, lysine, arginine, histidine), acidic side chains (*e.g.*, aspartic acid, glutamic acid), uncharged polar side chains (*e.g.*, glycine, asparagine, glutamine, serine, threonine, tyrosine, cysteine), non-polar side chains (*e.g.*, alanine, valine, leucine, isoleucine, proline, phenylalanine, methionine, tryptophan), beta-branched side chains (*e.g.*, threonine, valine, isoleucine) and aromatic side chains (*e.g.*, tyrosine, phenylalanine, tryptophan, histidine). Alternatively, mutations can be introduced randomly along all or part of the coding sequence, such as by saturation mutagenesis, and the resultant mutants can be screened for biological activity to identify mutants that retain activity. Following mutagenesis, the encoded protein can be expressed recombinantly and the activity of the protein can be determined.

The present invention encompasses antisense nucleic acid molecules, *i.e.*, molecules which are complementary to a sense nucleic acid of the invention, *e.g.*, complementary to the coding strand of a double-stranded cDNA molecule corresponding to a marker of the invention or complementary to an mRNA sequence corresponding to a marker of the invention. Accordingly, an antisense nucleic acid of the invention can hydrogen bond to (*i.e.* anneal with) a sense nucleic acid of the invention. The antisense nucleic acid can be complementary to an entire coding strand, or to only a portion thereof, *e.g.*, all or part of the protein coding region (or open reading frame). An antisense nucleic acid molecule can also be antisense to all or part of a non-coding region of the coding strand of a nucleotide sequence encoding a polypeptide of the invention. The non-coding regions ("5' and 3' untranslated regions") are the 5' and 3' sequences which flank the coding region and are not translated into amino acids.

An antisense oligonucleotide can be, for example, about 5, 10, 15, 20, 25, 30, 35, 40, 45, or 50 or more nucleotides in length. An antisense nucleic acid of the invention can be constructed using chemical synthesis and enzymatic ligation reactions using procedures known in the art. For example, an antisense nucleic acid (*e.g.*, an antisense oligonucleotide) can be chemically synthesized using naturally occurring nucleotides or variously modified nucleotides designed to increase the biological stability of the molecules or to increase the physical stability of the duplex formed between the antisense and sense nucleic acids, *e.g.*, phosphorothioate derivatives and acridine

substituted nucleotides can be used. Examples of modified nucleotides which can be used to generate the antisense nucleic acid include 5-fluorouracil, 5-bromouracil, 5-chlorouracil, 5-iodouracil, hypoxanthine, xanthine, 4-acetylcytosine, 5-(carboxyhydroxylmethyl) uracil, 5-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluracil, dihydrouracil, beta-D-galactosylqueosine, inosine, N6-isopentenyladenine, 1-methylguanine, 1-methylinosine, 2,2-dimethylguanine, 2-methyladenine, 2-methylguanine, 3-methylcytosine, 5-methylcytosine, N6-adenine, 7-methylguanine, 5-methylaminomethyluracil, 5-methoxyaminomethyl-2-thiouracil, beta-D-mannosylqueosine, 5'-methoxycarboxymethyluracil, 5-methoxyuracil, 2-methylthio-N6-isopentenyladenine, uracil-5-oxyacetic acid (v), wybutoxosine, pseudouracil, queosine, 2-thiocytosine, 5-methyl-2-thiouracil, 2-thiouracil, 4-thiouracil, 5-methyluracil, uracil-5-oxyacetic acid methylester, uracil-5-oxyacetic acid (v), 5-methyl-2-thiouracil, 3-(3-amino-3-N-2-carboxypropyl) uracil, (acp3)w, and 2,6-diaminopurine. Alternatively, the antisense nucleic acid can be produced biologically using an expression vector into which a nucleic acid has been sub-cloned in an antisense orientation (*i.e.*, RNA transcribed from the inserted nucleic acid will be of an antisense orientation to a target nucleic acid of interest, described further in the following subsection).

The antisense nucleic acid molecules of the invention are typically administered to a subject or generated *in situ* such that they hybridize with or bind to cellular mRNA and/or genomic DNA encoding a polypeptide corresponding to a selected marker of the invention to thereby inhibit expression of the marker, *e.g.*, by inhibiting transcription and/or translation. The hybridization can be by conventional nucleotide complementarity to form a stable duplex, or, for example, in the case of an antisense nucleic acid molecule which binds to DNA duplexes, through specific interactions in the major groove of the double helix. Examples of a route of administration of antisense nucleic acid molecules of the invention includes direct injection at a tissue site or infusion of the antisense nucleic acid into an ovary-associated body fluid. Alternatively, antisense nucleic acid molecules can be modified to target selected cells and then administered systemically. For example, for systemic administration, antisense molecules can be modified such that they specifically bind to receptors or antigens expressed on a selected cell surface, *e.g.*, by linking the antisense nucleic acid molecules

to peptides or antibodies which bind to cell surface receptors or antigens. The antisense nucleic acid molecules can also be delivered to cells using the vectors described herein. To achieve sufficient intracellular concentrations of the antisense molecules, vector constructs in which the antisense nucleic acid molecule is placed under the control of a strong pol II or pol III promoter are preferred.

An antisense nucleic acid molecule of the invention can be an α-anomeric nucleic acid molecule. An α-anomeric nucleic acid molecule forms specific double-stranded hybrids with complementary RNA in which, contrary to the usual α-units, the strands run parallel to each other (Gaultier *et al.*, 1987, *Nucleic Acids Res.* 15:6625-6641). The antisense nucleic acid molecule can also comprise a 2'-o-methylribonucleotide (Inoue *et al.*, 1987, *Nucleic Acids Res.* 15:6131-6148) or a chimeric RNA-DNA analogue (Inoue *et al.*, 1987, *FEBS Lett.* 215:327-330).

The invention also encompasses ribozymes. Ribozymes are catalytic RNA molecules with ribonuclease activity which are capable of cleaving a single-stranded nucleic acid, such as an mRNA, to which they have a complementary region. Thus, ribozymes (*e.g.*, hammerhead ribozymes as described in Haselhoff and Gerlach, 1988, *Nature* 334:585-591) can be used to catalytically cleave mRNA transcripts to thereby inhibit translation of the protein encoded by the mRNA. A ribozyme having specificity for a nucleic acid molecule encoding a polypeptide corresponding to a marker of the invention can be designed based upon the nucleotide sequence of a cDNA corresponding to the marker. For example, a derivative of a *Tetrahymena* L-19 IVS RNA can be constructed in which the nucleotide sequence of the active site is complementary to the nucleotide sequence to be cleaved (see Cech *et al.* U.S. Patent No. 4,987,071; and Cech *et al.* U.S. Patent No. 5,116,742). Alternatively, an mRNA encoding a polypeptide of the invention can be used to select a catalytic RNA having a specific ribonuclease activity from a pool of RNA molecules (see, *e.g.*, Bartel and Szostak, 1993, *Science* 261:1411-1418).

The invention also encompasses nucleic acid molecules which form triple helical structures. For example, expression of a polypeptide of the invention can be inhibited by targeting nucleotide sequences complementary to the regulatory region of the gene encoding the polypeptide (*e.g.*, the promoter and/or enhancer) to form triple helical structures that prevent transcription of the gene in target cells. See generally Helene

(1991) *Anticancer Drug Des.* 6(6):569-84; Helene (1992) *Ann. N.Y. Acad. Sci.* 660:27-36; and Maher (1992) *Bioassays* 14(12):807-15.

In various embodiments, the nucleic acid molecules of the invention can be modified at the base moiety, sugar moiety or phosphate backbone to improve, *e.g.*, the stability, hybridization, or solubility of the molecule. For example, the deoxyribose phosphate backbone of the nucleic acids can be modified to generate peptide nucleic acids (see Hyrup *et al.*, 1996, *Bioorganic & Medicinal Chemistry* 4(1): 5-23). As used herein, the terms "peptide nucleic acids" or "PNAs" refer to nucleic acid mimics, *e.g.*, DNA mimics, in which the deoxyribose phosphate backbone is replaced by a pseudopeptide backbone and only the four natural nucleobases are retained. The neutral backbone of PNAs has been shown to allow for specific hybridization to DNA and RNA under conditions of low ionic strength. The synthesis of PNA oligomers can be performed using standard solid phase peptide synthesis protocols as described in Hyrup *et al.* (1996), *supra*; Perry-O'Keefe *et al.* (1996) *Proc. Natl. Acad. Sci. USA* 93:14670-675.

PNAs can be used in therapeutic and diagnostic applications. For example, PNAs can be used as antisense or antigene agents for sequence-specific modulation of gene expression by, *e.g.*, inducing transcription or translation arrest or inhibiting replication. PNAs can also be used, *e.g.*, in the analysis of single base pair mutations in a gene by, *e.g.*, PNA directed PCR clamping; as artificial restriction enzymes when used in combination with other enzymes, *e.g.*, S1 nucleases (Hyrup (1996), *supra*; or as probes or primers for DNA sequence and hybridization (Hyrup, 1996, *supra*; Perry-O'Keefe *et al.*, 1996, *Proc. Natl. Acad. Sci. USA* 93:14670-675).

In another embodiment, PNAs can be modified, *e.g.*, to enhance their stability or cellular uptake, by attaching lipophilic or other helper groups to PNA, by the formation of PNA-DNA chimeras, or by the use of liposomes or other techniques of drug delivery known in the art. For example, PNA-DNA chimeras can be generated which can combine the advantageous properties of PNA and DNA. Such chimeras allow DNA recognition enzymes, *e.g.*, RNASE H and DNA polymerases, to interact with the DNA portion while the PNA portion would provide high binding affinity and specificity. PNA-DNA chimeras can be linked using linkers of appropriate lengths selected in terms of base stacking, number of bonds between the nucleobases, and orientation (Hyrup,

1996, *supra*). The synthesis of PNA-DNA chimeras can be performed as described in Hyrup (1996), *supra,* and Finn *et al.* (1996) *Nucleic Acids Res.* 24(17):3357-63. For example, a DNA chain can be synthesized on a solid support using standard phosphoramidite coupling chemistry and modified nucleoside analogs. Compounds such as 5'-(4-methoxytrityl)amino-5'-deoxy-thymidine phosphoramidite can be used as a link between the PNA and the 5' end of DNA (Mag *et al.,* 1989, *Nucleic Acids Res.* 17:5973-88). PNA monomers are then coupled in a step-wise manner to produce a chimeric molecule with a 5' PNA segment and a 3' DNA segment (Finn *et al.,* 1996, *Nucleic Acids Res.* 24(17):3357-63). Alternatively, chimeric molecules can be synthesized with a 5' DNA segment and a 3' PNA segment (Peterser *et al.,* 1975, *Bioorganic Med. Chem. Lett.* 5:1119-11124).

In other embodiments, the oligonucleotide can include other appended groups such as peptides (*e.g.*, for targeting host cell receptors *in vivo*), or agents facilitating transport across the cell membrane (see, *e.g.*, Letsinger *et al.,* 1989, *Proc. Natl. Acad. Sci. USA* 86:6553-6556; Lemaitre *et al.,* 1987, *Proc. Natl. Acad. Sci. USA* 84:648-652; PCT Publication No. WO 88/09810) or the blood-brain barrier (see, *e.g.*, PCT Publication No. WO 89/10134). In addition, oligonucleotides can be modified with hybridization-triggered cleavage agents (see, *e.g.,* Krol *et al.,* 1988, *Bio/Techniques* 6:958-976) or intercalating agents (see, *e.g.,* Zon, 1988, *Pharm. Res.* 5:539-549). To this end, the oligonucleotide can be conjugated to another molecule, *e.g.*, a peptide, hybridization triggered cross-linking agent, transport agent, hybridization-triggered cleavage agent, etc.

The invention also includes molecular beacon nucleic acids having at least one region which is complementary to a nucleic acid of the invention, such that the molecular beacon is useful for quantitating the presence of the nucleic acid of the invention in a sample. A "molecular beacon" nucleic acid is a nucleic acid comprising a pair of complementary regions and having a fluorophore and a fluorescent quencher associated therewith. The fluorophore and quencher are associated with different portions of the nucleic acid in such an orientation that when the complementary regions are annealed with one another, fluorescence of the fluorophore is quenched by the quencher. When the complementary regions of the nucleic acid are not annealed with

one another, fluorescence of the fluorophore is quenched to a lesser degree. Molecular beacon nucleic acids are described, for example, in U.S. Patent 5,876,930.

II. Isolated Proteins and Antibodies

One aspect of the invention pertains to isolated proteins which correspond to individual markers of the invention, and biologically active portions thereof, as well as polypeptide fragments suitable for use as immunogens to raise antibodies directed against a polypeptide corresponding to a marker of the invention. In one embodiment, the native polypeptide corresponding to a marker can be isolated from cells or tissue sources by an appropriate purification scheme using standard protein purification techniques. In another embodiment, polypeptides corresponding to a marker of the invention are produced by recombinant DNA techniques. Alternative to recombinant expression, a polypeptide corresponding to a marker of the invention can be synthesized chemically using standard peptide synthesis techniques.

An "isolated" or "purified" protein or biologically active portion thereof is substantially free of cellular material or other contaminating proteins from the cell or tissue source from which the protein is derived, or substantially free of chemical precursors or other chemicals when chemically synthesized. The language "substantially free of cellular material" includes preparations of protein in which the protein is separated from cellular components of the cells from which it is isolated or recombinantly produced. Thus, protein that is substantially free of cellular material includes preparations of protein having less than about 30%, 20%, 10%, or 5% (by dry weight) of heterologous protein (also referred to herein as a "contaminating protein"). When the protein or biologically active portion thereof is recombinantly produced, it is also preferably substantially free of culture medium, *i.e.*, culture medium represents less than about 20%, 10%, or 5% of the volume of the protein preparation. When the protein is produced by chemical synthesis, it is preferably substantially free of chemical precursors or other chemicals, *i.e.*, it is separated from chemical precursors or other chemicals which are involved in the synthesis of the protein. Accordingly such preparations of the protein have less than about 30%, 20%, 10%, 5% (by dry weight) of chemical precursors or compounds other than the polypeptide of interest.

Biologically active portions of a polypeptide corresponding to a marker of the invention include polypeptides comprising amino acid sequences sufficiently identical to or derived from the amino acid sequence of the protein corresponding to the marker, which include fewer amino acids than the full length protein, and exhibit at least one activity of the corresponding full-length protein. Typically, biologically active portions comprise a domain or motif with at least one activity of the corresponding protein. A biologically active portion of a protein of the invention can be a polypeptide which is, for example, 10, 25, 50, 100 or more amino acids in length. Moreover, other biologically active portions, in which other regions of the protein are deleted, can be prepared by recombinant techniques and evaluated for one or more of the functional activities of the native form of a polypeptide of the invention.

Preferred polypeptides are encoded by the nucleotide sequences of Tables 1-2. Other useful proteins are substantially identical (*e.g.*, at least about 40%, preferably 50%, 60%, 70%, 80%, 90%, 95%, or 99%) to one of these sequences and retain the functional activity of the protein of the corresponding naturally-occurring protein yet differ in amino acid sequence due to natural allelic variation or mutagenesis.

To determine the percent identity of two amino acid sequences or of two nucleic acids, the sequences are aligned for optimal comparison purposes (*e.g.*, gaps can be introduced in the sequence of a first amino acid or nucleic acid sequence for optimal alignment with a second amino or nucleic acid sequence). The amino acid residues or nucleotides at corresponding amino acid positions or nucleotide positions are then compared. When a position in the first sequence is occupied by the same amino acid residue or nucleotide as the corresponding position in the second sequence, then the molecules are identical at that position. The percent identity between the two sequences is a function of the number of identical positions shared by the sequences (*i.e.*, % identity = # of identical positions/total # of positions (*e.g.*, overlapping positions) x100). In one embodiment the two sequences are the same length.

The determination of percent identity between two sequences can be accomplished using a mathematical algorithm. A preferred, non-limiting example of a mathematical algorithm utilized for the comparison of two sequences is the algorithm of Karlin and Altschul (1990) *Proc. Natl. Acad. Sci. USA* 87:2264-2268, modified as in Karlin and Altschul (1993) *Proc. Natl. Acad. Sci. USA* 90:5873-5877. Such an

algorithm is incorporated into the NBLAST and XBLAST programs of Altschul, *et al.* (1990) *J. Mol. Biol.* 215:403-410. BLAST nucleotide searches can be performed with the NBLAST program, score = 100, wordlength = 12 to obtain nucleotide sequences homologous to a nucleic acid molecules of the invention. BLAST protein searches can be performed with the XBLAST program, score = 50, wordlength = 3 to obtain amino acid sequences homologous to a protein molecules of the invention. To obtain gapped alignments for comparison purposes, Gapped BLAST can be utilized as described in Altschul *et al.* (1997) *Nucleic Acids Res.* 25:3389-3402. Alternatively, PSI-Blast can be used to perform an iterated search which detects distant relationships between molecules. When utilizing BLAST, Gapped BLAST, and PSI-Blast programs, the default parameters of the respective programs (*e.g.*, XBLAST and NBLAST) can be used. See http://www.ncbi.nlm.nih.gov. Another preferred, non-limiting example of a mathematical algorithm utilized for the comparison of sequences is the algorithm of Myers and Miller, (1988) *CABIOS* 4:11-17. Such an algorithm is incorporated into the ALIGN program (version 2.0) which is part of the GCG sequence alignment software package. When utilizing the ALIGN program for comparing amino acid sequences, a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4 can be used. Yet another useful algorithm for identifying regions of local sequence similarity and alignment is the FASTA algorithm as described in Pearson and Lipman (1988) *Proc. Natl. Acad. Sci. USA* 85:2444-2448. When using the FASTA algorithm for comparing nucleotide or amino acid sequences, a PAM120 weight residue table can, for example, be used with a *k*-tuple value of 2.

The percent identity between two sequences can be determined using techniques similar to those described above, with or without allowing gaps. In calculating percent identity, only exact matches are counted.

The invention also provides chimeric or fusion proteins corresponding to a marker of the invention. As used herein, a "chimeric protein" or "fusion protein" comprises all or part (preferably a biologically active part) of a polypeptide corresponding to a marker of the invention operably linked to a heterologous polypeptide (*i.e.*, a polypeptide other than the polypeptide corresponding to the marker). Within the fusion protein, the term "operably linked" is intended to indicate that the polypeptide of the invention and the heterologous polypeptide are fused in-frame to each

other. The heterologous polypeptide can be fused to the amino-terminus or the carboxyl-terminus of the polypeptide of the invention.

One useful fusion protein is a GST fusion protein in which a polypeptide corresponding to a marker of the invention is fused to the carboxyl terminus of GST sequences. Such fusion proteins can facilitate the purification of a recombinant polypeptide of the invention.

In another embodiment, the fusion protein contains a heterologous signal sequence at its amino terminus. For example, the native signal sequence of a polypeptide corresponding to a marker of the invention can be removed and replaced with a signal sequence from another protein. For example, the gp67 secretory sequence of the baculovirus envelope protein can be used as a heterologous signal sequence (Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, NY, 1992). Other examples of eukaryotic heterologous signal sequences include the secretory sequences of melittin and human placental alkaline phosphatase (Stratagene; La Jolla, California). In yet another example, useful prokaryotic heterologous signal sequences include the phoA secretory signal (Sambrook *et al., supra*) and the protein A secretory signal (Pharmacia Biotech; Piscataway, New Jersey).

In yet another embodiment, the fusion protein is an immunoglobulin fusion protein in which all or part of a polypeptide corresponding to a marker of the invention is fused to sequences derived from a member of the immunoglobulin protein family. The immunoglobulin fusion proteins of the invention can be incorporated into pharmaceutical compositions and administered to a subject to inhibit an interaction between a ligand (soluble or membrane-bound) and a protein on the surface of a cell (receptor), to thereby suppress signal transduction *in vivo*. The immunoglobulin fusion protein can be used to affect the bioavailability of a cognate ligand of a polypeptide of the invention. Inhibition of ligand/receptor interaction can be useful therapeutically, both for treating proliferative and differentiative disorders and for modulating (*e.g.* promoting or inhibiting) cell survival. Moreover, the immunoglobulin fusion proteins of the invention can be used as immunogens to produce antibodies directed against a polypeptide of the invention in a subject, to purify ligands and in screening assays to identify molecules which inhibit the interaction of receptors with ligands.

Chimeric and fusion proteins of the invention can be produced by standard recombinant DNA techniques. In another embodiment, the fusion gene can be synthesized by conventional techniques including automated DNA synthesizers. Alternatively, PCR amplification of gene fragments can be carried out using anchor primers which give rise to complementary overhangs between two consecutive gene fragments which can subsequently be annealed and re-amplified to generate a chimeric gene sequence (see, *e.g.*, Ausubel *et al.*, *supra*). Moreover, many expression vectors are commercially available that already encode a fusion moiety (*e.g.*, a GST polypeptide). A nucleic acid encoding a polypeptide of the invention can be cloned into such an expression vector such that the fusion moiety is linked in-frame to the polypeptide of the invention.

A signal sequence can be used to facilitate secretion and isolation of the secreted protein or other proteins of interest. Signal sequences are typically characterized by a core of hydrophobic amino acids which are generally cleaved from the mature protein during secretion in one or more cleavage events. Such signal peptides contain processing sites that allow cleavage of the signal sequence from the mature proteins as they pass through the secretory pathway. Thus, the invention pertains to the described polypeptides having a signal sequence, as well as to polypeptides from which the signal sequence has been proteolytically cleaved (*i.e.*, the cleavage products). In one embodiment, a nucleic acid sequence encoding a signal sequence can be operably linked in an expression vector to a protein of interest, such as a protein which is ordinarily not secreted or is otherwise difficult to isolate. The signal sequence directs secretion of the protein, such as from a eukaryotic host into which the expression vector is transformed, and the signal sequence is subsequently or concurrently cleaved. The protein can then be readily purified from the extracellular medium by art recognized methods. Alternatively, the signal sequence can be linked to the protein of interest using a sequence which facilitates purification, such as with a GST domain.

The present invention also pertains to variants of the polypeptides corresponding to individual markers of the invention. Such variants have an altered amino acid sequence which can function as either agonists (mimetics) or as antagonists. Variants can be generated by mutagenesis, *e.g.*, discrete point mutation or truncation. An agonist can retain substantially the same, or a subset, of the biological activities of the naturally

occurring form of the protein. An antagonist of a protein can inhibit one or more of the activities of the naturally occurring form of the protein by, for example, competitively binding to a downstream or upstream member of a cellular signaling cascade which includes the protein of interest. Thus, specific biological effects can be elicited by treatment with a variant of limited function. Treatment of a subject with a variant having a subset of the biological activities of the naturally occurring form of the protein can have fewer side effects in a subject relative to treatment with the naturally occurring form of the protein.

Variants of a protein of the invention which function as either agonists (mimetics) or as antagonists can be identified by screening combinatorial libraries of mutants, *e.g.*, truncation mutants, of the protein of the invention for agonist or antagonist activity. In one embodiment, a variegated library of variants is generated by combinatorial mutagenesis at the nucleic acid level and is encoded by a variegated gene library. A variegated library of variants can be produced by, for example, enzymatically ligating a mixture of synthetic oligonucleotides into gene sequences such that a degenerate set of potential protein sequences is expressible as individual polypeptides, or alternatively, as a set of larger fusion proteins (*e.g.*, for phage display). There are a variety of methods which can be used to produce libraries of potential variants of the polypeptides of the invention from a degenerate oligonucleotide sequence. Methods for synthesizing degenerate oligonucleotides are known in the art (see, *e.g.*, Narang, 1983, *Tetrahedron* 39:3; Itakura *et al.*, 1984, *Annu. Rev. Biochem.* 53:323; Itakura *et al.*, 1984, *Science* 198:1056; Ike *et al.*, 1983 *Nucleic Acid Res.* 11:477).

In addition, libraries of fragments of the coding sequence of a polypeptide corresponding to a marker of the invention can be used to generate a variegated population of polypeptides for screening and subsequent selection of variants. For example, a library of coding sequence fragments can be generated by treating a double stranded PCR fragment of the coding sequence of interest with a nuclease under conditions wherein nicking occurs only about once per molecule, denaturing the double stranded DNA, renaturing the DNA to form double stranded DNA which can include sense/antisense pairs from different nicked products, removing single stranded portions from reformed duplexes by treatment with S1 nuclease, and ligating the resulting fragment library into an expression vector. By this method, an expression library can be

derived which encodes amino terminal and internal fragments of various sizes of the protein of interest.

Several techniques are known in the art for screening gene products of combinatorial libraries made by point mutations or truncation, and for screening cDNA libraries for gene products having a selected property. The most widely used techniques, which are amenable to high through-put analysis, for screening large gene libraries typically include cloning the gene library into replicable expression vectors, transforming appropriate cells with the resulting library of vectors, and expressing the combinatorial genes under conditions in which detection of a desired activity facilitates isolation of the vector encoding the gene whose product was detected. Recursive ensemble mutagenesis (REM), a technique which enhances the frequency of functional mutants in the libraries, can be used in combination with the screening assays to identify variants of a protein of the invention (Arkin and Yourvan, 1992, *Proc. Natl. Acad. Sci. USA 89*:7811-7815; Delgrave *et al.,* 1993, *Protein Engineering* 6(3):327- 331).

An isolated polypeptide corresponding to a marker of the invention, or a fragment thereof, can be used as an immunogen to generate antibodies using standard techniques for polyclonal and monoclonal antibody preparation. The full-length polypeptide or protein can be used or, alternatively, the invention provides antigenic peptide fragments for use as immunogens. The antigenic peptide of a protein of the invention comprises at least 8 (preferably 10, 15, 20, or 30 or more) amino acid residues of the amino acid sequence of one of the polypeptides of the invention, and encompasses an epitope of the protein such that an antibody raised against the peptide forms a specific immune complex with a marker of the invention to which the protein corresponds. Preferred epitopes encompassed by the antigenic peptide are regions that are located on the surface of the protein, *e.g.*, hydrophilic regions. Hydrophobicity sequence analysis, hydrophilicity sequence analysis, or similar analyses can be used to identify hydrophilic regions.

An immunogen typically is used to prepare antibodies by immunizing a suitable (*i.e.* immunocompetent) subject such as a rabbit, goat, mouse, or other mammal or vertebrate. An appropriate immunogenic preparation can contain, for example, recombinantly-expressed or chemically-synthesized polypeptide. The preparation can

further include an adjuvant, such as Freund's complete or incomplete adjuvant, or a similar immunostimulatory agent.

Accordingly, another aspect of the invention pertains to antibodies directed against a polypeptide of the invention. The terms "antibody" and "antibody substance" as used interchangeably herein refer to immunoglobulin molecules and immunologically active portions of immunoglobulin molecules, *i.e.*, molecules that contain an antigen binding site which specifically binds an antigen, such as a polypeptide of the invention, e.g., an epitope of a polypeptide of the invention. A molecule which specifically binds to a given polypeptide of the invention is a molecule which binds the polypeptide, but does not substantially bind other molecules in a sample, *e.g.*, a biological sample, which naturally contains the polypeptide. Examples of immunologically active portions of immunoglobulin molecules include F(ab) and $F(ab')_2$ fragments which can be generated by treating the antibody with an enzyme such as pepsin. The invention provides polyclonal and monoclonal antibodies. The term "monoclonal antibody" or "monoclonal antibody composition", as used herein, refers to a population of antibody molecules that contain only one species of an antigen binding site capable of immunoreacting with a particular epitope.

Polyclonal antibodies can be prepared as described above by immunizing a suitable subject with a polypeptide of the invention as an immunogen. Preferred polyclonal antibody compositions are ones that have been selected for antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred polyclonal antibody preparations are ones that contain only antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred immunogen compositions are those that contain no other human proteins such as, for example, immunogen compositions made using a non-human host cell for recombinant expression of a polypeptide of the invention. In such a manner, the only human epitope or epitopes recognized by the resulting antibody compositions raised against this immunogen will be present as part of a polypeptide or polypeptides of the invention.

The antibody titer in the immunized subject can be monitored over time by standard techniques, such as with an enzyme linked immunosorbent assay (ELISA) using immobilized polypeptide. If desired, the antibody molecules can be harvested or isolated from the subject (*e.g.*, from the blood or serum of the subject) and further

purified by well-known techniques, such as protein A chromatography to obtain the IgG fraction. Alternatively, antibodies specific for a protein or polypeptide of the invention can be selected or (*e.g.*, partially purified) or purified by, *e.g.*, affinity chromatography. For example, a recombinantly expressed and purified (or partially purified) protein of the invention is produced as described herein, and covalently or non-covalently coupled to a solid support such as, for example, a chromatography column. The column can then be used to affinity purify antibodies specific for the proteins of the invention from a sample containing antibodies directed against a large number of different epitopes, thereby generating a substantially purified antibody composition, *i.e.*, one that is substantially free of contaminating antibodies. By a substantially purified antibody composition is meant, in this context, that the antibody sample contains at most only 30% (by dry weight) of contaminating antibodies directed against epitopes other than those of the desired protein or polypeptide of the invention, and preferably at most 20%, yet more preferably at most 10%, and most preferably at most 5% (by dry weight) of the sample is contaminating antibodies. A purified antibody composition means that at least 99% of the antibodies in the composition are directed against the desired protein or polypeptide of the invention.

At an appropriate time after immunization, *e.g.*, when the specific antibody titers are highest, antibody-producing cells can be obtained from the subject and used to prepare monoclonal antibodies by standard techniques, such as the hybridoma technique originally described by Kohler and Milstein (1975) *Nature* 256:495-497, the human B cell hybridoma technique (see Kozbor *et al.*, 1983, *Immunol. Today* 4:72), the EBV-hybridoma technique (see Cole *et al.*, pp. 77-96 In *Monoclonal Antibodies and Cancer Therapy*, Alan R. Liss, Inc., 1985) or trioma techniques. The technology for producing hybridomas is well known (see generally *Current Protocols in Immunology,* Coligan *et al.* ed., John Wiley & Sons, New York, 1994). Hybridoma cells producing a monoclonal antibody of the invention are detected by screening the hybridoma culture supernatants for antibodies that bind the polypeptide of interest, *e.g.*, using a standard ELISA assay.

Alternative to preparing monoclonal antibody-secreting hybridomas, a monoclonal antibody directed against a polypeptide of the invention can be identified and isolated by screening a recombinant combinatorial immunoglobulin library (*e.g.*, an

antibody phage display library) with the polypeptide of interest. Kits for generating and screening phage display libraries are commercially available (*e.g.*, the Pharmacia *Recombinant Phage Antibody System*, Catalog No. 27-9400-01; and the Stratagene *SurfZAP Phage Display Kit*, Catalog No. 240612). Additionally, examples of methods and reagents particularly amenable for use in generating and screening antibody display library can be found in, for example, U.S. Patent No. 5,223,409; PCT Publication No. WO 92/18619; PCT Publication No. WO 91/17271; PCT Publication No. WO 92/20791; PCT Publication No. WO 92/15679; PCT Publication No. WO 93/01288; PCT Publication No. WO 92/01047; PCT Publication No. WO 92/09690; PCT Publication No. WO 90/02809; Fuchs *et al.* (1991) *Bio/Technology* 9:1370-1372; Hay *et al.* (1992) *Hum. Antibod. Hybridomas* 3:81-85; Huse *et al.* (1989) *Science* 246:1275-1281; Griffiths *et al.* (1993) *EMBO J.* 12:725-734.

Additionally, recombinant antibodies, such as chimeric and humanized monoclonal antibodies, comprising both human and non-human portions, which can be made using standard recombinant DNA techniques, are within the scope of the invention. A chimeric antibody is a molecule in which different portions are derived from different animal species, such as those having a variable region derived from a murine mAb and a human immunoglobulin constant region. (See, *e.g.,* Cabilly et al., U.S. Patent No. 4,816,567; and Boss et al., U.S. Patent No. 4,816,397, which are incorporated herein by reference in their entirety.) Humanized antibodies are antibody molecules from non-human species having one or more complementarily determining regions (CDRs) from the non-human species and a framework region from a human immunoglobulin molecule. (See, *e.g.,* Queen, U.S. Patent No. 5,585,089, which is incorporated herein by reference in its entirety.) Such chimeric and humanized monoclonal antibodies can be produced by recombinant DNA techniques known in the art, for example using methods described in PCT Publication No. WO 87/02671; European Patent Application 184,187; European Patent Application 171,496; European Patent Application 173,494; PCT Publication No. WO 86/01533; U.S. Patent No. 4,816,567; European Patent Application 125,023; Better *et al.* (1988) *Science* 240:1041-1043; Liu *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:3439-3443; Liu *et al.* (1987) *J. Immunol.* 139:3521- 3526; Sun *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:214-218; Nishimura *et al.* (1987) *Cancer Res.* 47:999-1005; Wood *et al.* (1985) *Nature* 314:446-

449; and Shaw *et al.* (1988) *J. Natl. Cancer Inst.* 80:1553-1559); Morrison (1985) *Science* 229:1202-1207; Oi *et al.* (1986) *Bio/Techniques* 4:214; U.S. Patent 5,225,539; Jones *et al.* (1986) *Nature* 321:552-525; Verhoeyan *et al.* (1988) *Science* 239:1534; and Beidler *et al.* (1988) *J. Immunol.* 141:4053-4060.

Antibodies of the invention may be used as therapeutic agents in treating cancers. In a preferred embodiment, completely human antibodies of the invention are used for therapeutic treatment of human cancer patients, particularly those having an ovarian cancer. Such antibodies can be produced, for example, using transgenic mice which are incapable of expressing endogenous immunoglobulin heavy and light chains genes, but which can express human heavy and light chain genes. The transgenic mice are immunized in the normal fashion with a selected antigen, *e.g.*, all or a portion of a polypeptide corresponding to a marker of the invention. Monoclonal antibodies directed against the antigen can be obtained using conventional hybridoma technology. The human immunoglobulin transgenes harbored by the transgenic mice rearrange during B cell differentiation, and subsequently undergo class switching and somatic mutation. Thus, using such a technique, it is possible to produce therapeutically useful IgG, IgA and IgE antibodies. For an overview of this technology for producing human antibodies, see Lonberg and Huszar (1995) *Int. Rev. Immunol.* 13:65-93). For a detailed discussion of this technology for producing human antibodies and human monoclonal antibodies and protocols for producing such antibodies, see, *e.g.*, U.S. Patent 5,625,126; U.S. Patent 5,633,425; U.S. Patent 5,569,825; U.S. Patent 5,661,016; and U.S. Patent 5,545,806. In addition, companies such as Abgenix, Inc. (Freemont, CA), can be engaged to provide human antibodies directed against a selected antigen using technology similar to that described above.

Completely human antibodies which recognize a selected epitope can be generated using a technique referred to as "guided selection." In this approach a selected non-human monoclonal antibody, *e.g.*, a murine antibody, is used to guide the selection of a completely human antibody recognizing the same epitope (Jespers *et al.*, 1994, *Bio/technology* 12:899-903).

An antibody directed against a polypeptide corresponding to a marker of the invention (*e.g.*, a monoclonal antibody) can be used to isolate the polypeptide by standard techniques, such as affinity chromatography or immunoprecipitation.

Moreover, such an antibody can be used to detect the marker (*e.g.*, in a cellular lysate or cell supernatant) in order to evaluate the level and pattern of expression of the marker. The antibodies can also be used diagnostically to monitor protein levels in tissues or body fluids (*e.g.* in an ovary-associated body fluid) as part of a clinical testing procedure, *e.g.*, to, for example, determine the efficacy of a given treatment regimen. Detection can be facilitated by coupling the antibody to a detectable substance. Examples of detectable substances include various enzymes, prosthetic groups, fluorescent materials, luminescent materials, bioluminescent materials, and radioactive materials. Examples of suitable enzymes include horseradish peroxidase, alkaline phosphatase, β-galactosidase, or acetylcholinesterase; examples of suitable prosthetic group complexes include streptavidin/biotin and avidin/biotin; examples of suitable fluorescent materials include umbelliferone, fluorescein, fluorescein isothiocyanate, rhodamine, dichlorotriazinylamine fluorescein, dansyl chloride or phycoerythrin; an example of a luminescent material includes luminol; examples of bioluminescent materials include luciferase, luciferin, and aequorin, and examples of suitable radioactive material include ^{125}I, ^{131}I, ^{35}S or ^{3}H.

Further, an antibody (or fragment thereof) can be conjugated to a therapeutic moiety such as a cytotoxin, a therapeutic agent or a radioactive metal ion. A cytotoxin or cytotoxic agent includes any agent that is detrimental to cells. Examples include taxol, cytochalasin B, gramicidin D, ethidium bromide, emetine, mitomycin, etoposide, tenoposide, vincristine, vinblastine, colchicin, doxorubicin, daunorubicin, dihydroxy anthracin dione, mitoxantrone, mithramycin, actinomycin D, 1-dehydrotestosterone, glucocorticoids, procaine, tetracaine, lidocaine, propranolol, and puromycin and analogs or homologs thereof. Therapeutic agents include, but are not limited to, antimetabolites (*e.g.*, methotrexate, 6-mercaptopurine, 6-thioguanine, cytarabine, 5-fluorouracil decarbazine), alkylating agents (*e.g.*, mechlorethamine, thioepa chlorambucil, melphalan, carmustine (BSNU) and lomustine (CCNU), cyclothosphamide, busulfan, dibromomannitol, streptozotocin, mitomycin C, and cis-dichlorodiamine platinum (II) (DDP) cisplatin), anthracyclines (*e.g.*, daunorubicin (formerly daunomycin) and doxorubicin), antibiotics (*e.g.*, dactinomycin (formerly actinomycin), bleomycin, mithramycin, and anthramycin (AMC)), and anti-mitotic agents (*e.g.*, vincristine and vinblastine).

The conjugates of the invention can be used for modifying a given biological response, the drug moiety is not to be construed as limited to classical chemical therapeutic agents. For example, the drug moiety may be a protein or polypeptide possessing a desired biological activity. Such proteins may include, for example, a toxin such as abrin, ricin A, pseudomonas exotoxin, or diphtheria toxin; a protein such as tumor necrosis factor, .alpha.-interferon, .beta.-interferon, nerve growth factor, platelet derived growth factor, tissue plasminogen activator; or, biological response modifiers such as, for example, lymphokines, interleukin-1 ("IL-1"), interleukin-2 ("IL-2"), interleukin-6 ("IL-6"), granulocyte macrophase colony stimulating factor ("GM-CSF"), granulocyte colony stimulating factor ("G-CSF"), or other growth factors.

Techniques for conjugating such therapeutic moiety to antibodies are well known, see, *e.g.*, Arnon et al., "Monoclonal Antibodies For Immunotargeting Of Drugs In Cancer Therapy", in Monoclonal Antibodies And Cancer Therapy, Reisfeld et al. (eds.), pp. 243-56 (Alan R. Liss, Inc. 1985); Hellstrom et al., "Antibodies For Drug Delivery", in Controlled Drug Delivery (2nd Ed.), Robinson et al. (eds.), pp. 623-53 (Marcel Dekker, Inc. 1987); Thorpe, "Antibody Carriers Of Cytotoxic Agents In Cancer Therapy: A Review", in Monoclonal Antibodies '84: Biological And Clinical Applications, Pinchera et al. (eds.), pp. 475-506 (1985); "Analysis, Results, And Future Prospective Of The Therapeutic Use Of Radiolabeled Antibody In Cancer Therapy", in Monoclonal Antibodies For Cancer Detection And Therapy, Baldwin et al. (eds.), pp. 303-16 (Academic Press 1985), and Thorpe et al., "The Preparation And Cytotoxic Properties Of Antibody-Toxin Conjugates", Immunol. Rev., 62:119-58 (1982).

Alternatively, an antibody can be conjugated to a second antibody to form an antibody heteroconjugate as described by Segal in U.S. Patent No. 4,676,980.

Accordingly, in one aspect, the invention provides substantially purified antibodies or fragments thereof, and non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the

ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. In various embodiments, the substantially purified antibodies of the invention, or fragments thereof, can be human, non-human, chimeric and/or humanized antibodies.

In another aspect, the invention provides non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of: the amino acid sequence of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. Such non-human antibodies can be goat, mouse, sheep, horse, chicken, rabbit, or rat antibodies. Alternatively, the non-human antibodies of the invention can be chimeric and/or humanized antibodies. In addition, the non-human antibodies of the invention can be polyclonal antibodies or monoclonal antibodies.

In still a further aspect, the invention provides monoclonal antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to an amino acid sequence of the present invention (wherein the percent

identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. The monoclonal antibodies can be human, humanized, chimeric and/or non-human antibodies.

The substantially purified antibodies or fragments thereof may specifically bind to a signal peptide, a secreted sequence, an extracellular domain, a transmembrane or a cytoplasmic domain or cytoplasmic membrane of a polypeptide of the invention. In a particularly preferred embodiment, the substantially purified antibodies or fragments thereof, the non-human antibodies or fragments thereof, and/or the monoclonal antibodies or fragments thereof, of the invention specifically bind to a secreted sequence or an extracellular domain of the amino acid sequences of the present invention.

Any of the antibodies of the invention can be conjugated to a therapeutic moiety or to a detectable substance. Non-limiting examples of detectable substances that can be conjugated to the antibodies of the invention are an enzyme, a prosthetic group, a fluorescent material, a luminescent material, a bioluminescent material, and a radioactive material.

The invention also provides a kit containing an antibody of the invention conjugated to a detectable substance, and instructions for use. Still another aspect of the invention is a pharmaceutical composition comprising an antibody of the invention and a pharmaceutically acceptable carrier. In preferred embodiments, the pharmaceutical composition contains an antibody of the invention, a therapeutic moiety, and a pharmaceutically acceptable carrier.

Still another aspect of the invention is a method of making an antibody that specifically recognizes a polypeptide of the present invention, the method comprising immunizing a mammal with a polypeptide. The polypeptide used as an immungen comprises an amino acid sequence selected from the group consisting of the amino acid sequence of the present invention, an amino acid sequence encoded by the cDNA of the nucleic acid molecules of the present invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence

which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C.

After immunization, a sample is collected from the mammal that contains an antibody that specifically recognizes the polypeptide. Preferably, the polypeptide is recombinantly produced using a non-human host cell. Optionally, the antibodies can be further purified from the sample using techniques well known to those of skill in the art. The method can further comprise producing a monoclonal antibody- producing cell from the cells of the mammal. Optionally, antibodies are collected from the antibody-producing cell.

III. Recombinant Expression Vectors and Host Cells

Another aspect of the invention pertains to vectors, preferably expression vectors, containing a nucleic acid encoding a polypeptide corresponding to a marker of the invention (or a portion of such a polypeptide). As used herein, the term "vector" refers to a nucleic acid molecule capable of transporting another nucleic acid to which it has been linked. One type of vector is a "plasmid", which refers to a circular double stranded DNA loop into which additional DNA segments can be ligated. Another type of vector is a viral vector, wherein additional DNA segments can be ligated into the viral genome. Certain vectors are capable of autonomous replication in a host cell into which they are introduced (*e.g.*, bacterial vectors having a bacterial origin of replication and episomal mammalian vectors). Other vectors (*e.g.*, non-episomal mammalian vectors) are integrated into the genome of a host cell upon introduction into the host cell, and thereby are replicated along with the host genome. Moreover, certain vectors, namely expression vectors, are capable of directing the expression of genes to which they are operably linked. In general, expression vectors of utility in recombinant DNA techniques are often in the form of plasmids (vectors). However, the invention is intended to include such other forms of expression vectors, such as viral vectors (*e.g.*,

replication defective retroviruses, adenoviruses and adeno-associated viruses), which serve equivalent functions.

The recombinant expression vectors of the invention comprise a nucleic acid of the invention in a form suitable for expression of the nucleic acid in a host cell. This means that the recombinant expression vectors include one or more regulatory sequences, selected on the basis of the host cells to be used for expression, which is operably linked to the nucleic acid sequence to be expressed. Within a recombinant expression vector, "operably linked" is intended to mean that the nucleotide sequence of interest is linked to the regulatory sequence(s) in a manner which allows for expression of the nucleotide sequence (*e.g.*, in an *in vitro* transcription/translation system or in a host cell when the vector is introduced into the host cell). The term "regulatory sequence" is intended to include promoters, enhancers and other expression control elements (*e.g.*, polyadenylation signals). Such regulatory sequences are described, for example, in Goeddel, *Methods in Enzymology: Gene Expression Technology* vol.185, Academic Press, San Diego, CA (1991). Regulatory sequences include those which direct constitutive expression of a nucleotide sequence in many types of host cell and those which direct expression of the nucleotide sequence only in certain host cells (*e.g.*, tissue-specific regulatory sequences). It will be appreciated by those skilled in the art that the design of the expression vector can depend on such factors as the choice of the host cell to be transformed, the level of expression of protein desired, and the like. The expression vectors of the invention can be introduced into host cells to thereby produce proteins or peptides, including fusion proteins or peptides, encoded by nucleic acids as described herein.

The recombinant expression vectors of the invention can be designed for expression of a polypeptide corresponding to a marker of the invention in prokaryotic (*e.g.*, *E. coli*) or eukaryotic cells (*e.g.*, insect cells {using baculovirus expression vectors}, yeast cells or mammalian cells). Suitable host cells are discussed further in Goeddel, *supra*. Alternatively, the recombinant expression vector can be transcribed and translated *in vitro*, for example using T7 promoter regulatory sequences and T7 polymerase.

Expression of proteins in prokaryotes is most often carried out in *E. coli* with vectors containing constitutive or inducible promoters directing the expression of either fusion or non-fusion proteins. Fusion vectors add a number of amino acids to a protein encoded therein, usually to the amino terminus of the recombinant protein. Such fusion vectors typically serve three purposes: 1) to increase expression of recombinant protein; 2) to increase the solubility of the recombinant protein; and 3) to aid in the purification of the recombinant protein by acting as a ligand in affinity purification. Often, in fusion expression vectors, a proteolytic cleavage site is introduced at the junction of the fusion moiety and the recombinant protein to enable separation of the recombinant protein from the fusion moiety subsequent to purification of the fusion protein. Such enzymes, and their cognate recognition sequences, include Factor Xa, thrombin and enterokinase. Typical fusion expression vectors include pGEX (Pharmacia Biotech Inc; Smith and Johnson, 1988, *Gene* 67:31-40), pMAL (New England Biolabs, Beverly, MA) and pRIT5 (Pharmacia, Piscataway, NJ) which fuse glutathione S-transferase (GST), maltose E binding protein, or protein A, respectively, to the target recombinant protein.

Examples of suitable inducible non-fusion *E. coli* expression vectors include pTrc (Amann *et al.*, 1988, *Gene* 69:301-315) and pET 11d (Studier *et al.*, p. 60-89, In *Gene Expression Technology: Methods in Enzymology* vol.185, Academic Press, San Diego, CA, 1991). Target gene expression from the pTrc vector relies on host RNA polymerase transcription from a hybrid trp-lac fusion promoter. Target gene expression from the pET 11d vector relies on transcription from a T7 gn10-lac fusion promoter mediated by a co-expressed viral RNA polymerase (T7 gn1). This viral polymerase is supplied by host strains BL21(DE3) or HMS174(DE3) from a resident prophage harboring a T7 gn1 gene under the transcriptional control of the lacUV 5 promoter.

One strategy to maximize recombinant protein expression in *E. coli* is to express the protein in a host bacteria with an impaired capacity to proteolytically cleave the recombinant protein (Gottesman, p. 119-128, In *Gene Expression Technology: Methods in Enzymology* vol. 185, Academic Press, San Diego, CA, 1990. Another strategy is to alter the nucleic acid sequence of the nucleic acid to be inserted into an expression vector so that the individual codons for each amino acid are those preferentially utilized in *E. coli* (Wada *et al.*, 1992, *Nucleic Acids Res.* 20:2111-2118). Such alteration of

nucleic acid sequences of the invention can be carried out by standard DNA synthesis techniques.

In another embodiment, the expression vector is a yeast expression vector. Examples of vectors for expression in yeast *S. cerevisiae* include pYepSec1 (Baldari *et al.*, 1987, *EMBO J.* 6:229-234), pMFa (Kurjan and Herskowitz, 1982, *Cell* 30:933-943), pJRY88 (Schultz *et al.*, 1987, *Gene* 54:113-123), pYES2 (Invitrogen Corporation, San Diego, CA), and pPicZ (Invitrogen Corp, San Diego, CA).

Alternatively, the expression vector is a baculovirus expression vector. Baculovirus vectors available for expression of proteins in cultured insect cells (*e.g.*, Sf 9 cells) include the pAc series (Smith *et al.*, 1983, *Mol. Cell Biol.* 3:2156-2165) and the pVL series (Lucklow and Summers, 1989, *Virology* 170:31-39).

In yet another embodiment, a nucleic acid of the invention is expressed in mammalian cells using a mammalian expression vector. Examples of mammalian expression vectors include pCDM8 (Seed, 1987, *Nature* 329:840) and pMT2PC (Kaufman *et al.*, 1987, *EMBO J.* 6:187-195). When used in mammalian cells, the expression vector's control functions are often provided by viral regulatory elements. For example, commonly used promoters are derived from polyoma, Adenovirus 2, cytomegalovirus and Simian Virus 40. For other suitable expression systems for both prokaryotic and eukaryotic cells see chapters 16 and 17 of Sambrook *et al.*, *supra.*

In another embodiment, the recombinant mammalian expression vector is capable of directing expression of the nucleic acid preferentially in a particular cell type (*e.g.*, tissue-specific regulatory elements are used to express the nucleic acid). Tissue-specific regulatory elements are known in the art. Non-limiting examples of suitable tissue-specific promoters include the albumin promoter (liver-specific; Pinkert *et al.*, 1987, *Genes Dev.* 1:268-277), lymphoid-specific promoters (Calame and Eaton, 1988, *Adv. Immunol.* 43:235-275), in particular promoters of T cell receptors (Winoto and Baltimore, 1989, *EMBO J.* 8:729-733) and immunoglobulins (Banerji *et al.*, 1983, *Cell* 33:729-740; Queen and Baltimore, 1983, *Cell* 33:741-748), neuron-specific promoters (*e.g.*, the neurofilament promoter; Byrne and Ruddle, 1989, *Proc. Natl. Acad. Sci. USA* 86:5473-5477), pancreas-specific promoters (Edlund *et al.*, 1985, *Science* 230:912-916), and mammary gland-specific promoters (*e.g.*, milk whey promoter; U.S. Patent No. 4,873,316 and European Application Publication No. 264,166). Developmentally-

regulated promoters are also encompassed, for example the murine hox promoters (Kessel and Gruss, 1990, *Science* 249:374-379) and the α-fetoprotein promoter (Camper and Tilghman, 1989, *Genes Dev.* 3:537-546).

The invention further provides a recombinant expression vector comprising a DNA molecule of the invention cloned into the expression vector in an antisense orientation. That is, the DNA molecule is operably linked to a regulatory sequence in a manner which allows for expression (by transcription of the DNA molecule) of an RNA molecule which is antisense to the mRNA encoding a polypeptide of the invention. Regulatory sequences operably linked to a nucleic acid cloned in the antisense orientation can be chosen which direct the continuous expression of the antisense RNA molecule in a variety of cell types, for instance viral promoters and/or enhancers, or regulatory sequences can be chosen which direct constitutive, tissue-specific or cell type specific expression of antisense RNA. The antisense expression vector can be in the form of a recombinant plasmid, phagemid, or attenuated virus in which antisense nucleic acids are produced under the control of a high efficiency regulatory region, the activity of which can be determined by the cell type into which the vector is introduced. For a discussion of the regulation of gene expression using antisense genes see Weintraub *et al.*, 1986, *Trends in Genetics*, Vol. 1(1).

Another aspect of the invention pertains to host cells into which a recombinant expression vector of the invention has been introduced. The terms "host cell" and "recombinant host cell" are used interchangeably herein. It is understood that such terms refer not only to the particular subject cell but to the progeny or potential progeny of such a cell. Because certain modifications may occur in succeeding generations due to either mutation or environmental influences, such progeny may not, in fact, be identical to the parent cell, but are still included within the scope of the term as used herein.

A host cell can be any prokaryotic (*e.g.*, *E. coli*) or eukaryotic cell (*e.g.*, insect cells, yeast or mammalian cells).

Vector DNA can be introduced into prokaryotic or eukaryotic cells via conventional transformation or transfection techniques. As used herein, the terms "transformation" and "transfection" are intended to refer to a variety of art-recognized techniques for introducing foreign nucleic acid into a host cell, including calcium

phosphate or calcium chloride co-precipitation, DEAE-dextran-mediated transfection, lipofection, or electroporation. Suitable methods for transforming or transfecting host cells can be found in Sambrook, *et al.* (*supra*), and other laboratory manuals.

For stable transfection of mammalian cells, it is known that, depending upon the expression vector and transfection technique used, only a small fraction of cells may integrate the foreign DNA into their genome. In order to identify and select these integrants, a gene that encodes a selectable marker (*e.g.*, for resistance to antibiotics) is generally introduced into the host cells along with the gene of interest. Preferred selectable markers include those which confer resistance to drugs, such as G418, hygromycin and methotrexate. Cells stably transfected with the introduced nucleic acid can be identified by drug selection (*e.g.*, cells that have incorporated the selectable marker gene will survive, while the other cells die).

A host cell of the invention, such as a prokaryotic or eukaryotic host cell in culture, can be used to produce a polypeptide corresponding to a marker of the invention. Accordingly, the invention further provides methods for producing a polypeptide corresponding to a marker of the invention using the host cells of the invention. In one embodiment, the method comprises culturing the host cell of invention (into which a recombinant expression vector encoding a polypeptide of the invention has been introduced) in a suitable medium such that the marker is produced. In another embodiment, the method further comprises isolating the marker polypeptide from the medium or the host cell.

The host cells of the invention can also be used to produce nonhuman transgenic animals. For example, in one embodiment, a host cell of the invention is a fertilized oocyte or an embryonic stem cell into which a sequences encoding a polypeptide corresponding to a marker of the invention have been introduced. Such host cells can then be used to create non-human transgenic animals in which exogenous sequences encoding a marker protein of the invention have been introduced into their genome or homologous recombinant animals in which endogenous gene(s) encoding a polypeptide corresponding to a marker of the invention sequences have been altered. Such animals are useful for studying the function and/or activity of the polypeptide corresponding to the marker and for identifying and/or evaluating modulators of polypeptide activity. As used herein, a "transgenic animal" is a non-human animal, preferably a mammal, more

preferably a rodent such as a rat or mouse, in which one or more of the cells of the animal includes a transgene. Other examples of transgenic animals include non-human primates, sheep, dogs, cows, goats, chickens, amphibians, etc. A transgene is exogenous DNA which is integrated into the genome of a cell from which a transgenic animal develops and which remains in the genome of the mature animal, thereby directing the expression of an encoded gene product in one or more cell types or tissues of the transgenic animal. As used herein, an "homologous recombinant animal" is a non-human animal, preferably a mammal, more preferably a mouse, in which an endogenous gene has been altered by homologous recombination between the endogenous gene and an exogenous DNA molecule introduced into a cell of the animal, *e.g.*, an embryonic cell of the animal, prior to development of the animal.

A transgenic animal of the invention can be created by introducing a nucleic acid encoding a polypeptide corresponding to a marker of the invention into the male pronuclei of a fertilized oocyte, *e.g.*, by microinjection, retroviral infection, and allowing the oocyte to develop in a pseudopregnant female foster animal. Intronic sequences and polyadenylation signals can also be included in the transgene to increase the efficiency of expression of the transgene. A tissue-specific regulatory sequence(s) can be operably linked to the transgene to direct expression of the polypeptide of the invention to particular cells. Methods for generating transgenic animals via embryo manipulation and microinjection, particularly animals such as mice, have become conventional in the art and are described, for example, in U.S. Patent Nos. 4,736,866 and 4,870,009, U.S. Patent No. 4,873,191 and in Hogan, *Manipulating the Mouse Embryo*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., 1986. Similar methods are used for production of other transgenic animals. A transgenic founder animal can be identified based upon the presence of the transgene in its genome and/or expression of mRNA encoding the transgene in tissues or cells of the animals. A transgenic founder animal can then be used to breed additional animals carrying the transgene. Moreover, transgenic animals carrying the transgene can further be bred to other transgenic animals carrying other transgenes.

To create an homologous recombinant animal, a vector is prepared which contains at least a portion of a gene encoding a polypeptide corresponding to a marker of the invention into which a deletion, addition or substitution has been introduced to

thereby alter, *e.g.*, functionally disrupt, the gene. In a preferred embodiment, the vector is designed such that, upon homologous recombination, the endogenous gene is functionally disrupted (*i.e.*, no longer encodes a functional protein; also referred to as a "knock out" vector). Alternatively, the vector can be designed such that, upon homologous recombination, the endogenous gene is mutated or otherwise altered but still encodes functional protein (*e.g.*, the upstream regulatory region can be altered to thereby alter the expression of the endogenous protein). In the homologous recombination vector, the altered portion of the gene is flanked at its 5' and 3' ends by additional nucleic acid of the gene to allow for homologous recombination to occur between the exogenous gene carried by the vector and an endogenous gene in an embryonic stem cell. The additional flanking nucleic acid sequences are of sufficient length for successful homologous recombination with the endogenous gene. Typically, several kilobases of flanking DNA (both at the 5' and 3' ends) are included in the vector (see, *e.g.*, Thomas and Capecchi, 1987, *Cell* 51:503 for a description of homologous recombination vectors). The vector is introduced into an embryonic stem cell line (*e.g.*, by electroporation) and cells in which the introduced gene has homologously recombined with the endogenous gene are selected (see, *e.g.*, Li *et al.*, 1992, *Cell* 69:915). The selected cells are then injected into a blastocyst of an animal (*e.g.*, a mouse) to form aggregation chimeras (see, *e.g.*, Bradley, *Teratocarcinomas and Embryonic Stem Cells: A Practical Approach*, Robertson, Ed., IRL, Oxford, 1987, pp. 113-152). A chimeric embryo can then be implanted into a suitable pseudopregnant female foster animal and the embryo brought to term. Progeny harboring the homologously recombined DNA in their germ cells can be used to breed animals in which all cells of the animal contain the homologously recombined DNA by germline transmission of the transgene. Methods for constructing homologous recombination vectors and homologous recombinant animals are described further in Bradley (1991) *Current Opinion in Bio/Technology* 2:823-829 and in PCT Publication NOS. WO 90/11354, WO 91/01140, WO 92/0968, and WO 93/04169.

In another embodiment, transgenic non-human animals can be produced which contain selected systems which allow for regulated expression of the transgene. One example of such a system is the *cre/loxP* recombinase system of bacteriophage P1. For a description of the *cre/loxP* recombinase system, see, *e.g.*, Lakso *et al.* (1992) *Proc.*

Natl. Acad. Sci. USA 89:6232-6236. Another example of a recombinase system is the FLP recombinase system of *Saccharomyces cerevisiae* (O'Gorman *et al.*, 1991, *Science* 251:1351-1355). If a *cre/loxP* recombinase system is used to regulate expression of the transgene, animals containing transgenes encoding both the *Cre* recombinase and a selected protein are required. Such animals can be provided through the construction of "double" transgenic animals, *e.g.*, by mating two transgenic animals, one containing a transgene encoding a selected protein and the other containing a transgene encoding a recombinase.

Clones of the non-human transgenic animals described herein can also be produced according to the methods described in Wilmut *et al.* (1997) *Nature* 385:810-813 and PCT Publication NOS. WO 97/07668 and WO 97/07669.

IV. Pharmaceutical Compositions

The nucleic acid molecules, polypeptides, and antibodies (also referred to herein as "active compounds") corresponding to a marker of the invention can be incorporated into pharmaceutical compositions suitable for administration. Such compositions typically comprise the nucleic acid molecule, protein, or antibody and a pharmaceutically acceptable carrier. As used herein the language "pharmaceutically acceptable carrier" is intended to include any and all solvents, dispersion media, coatings, antibacterial and antifungal agents, isotonic and absorption delaying agents, and the like, compatible with pharmaceutical administration. The use of such media and agents for pharmaceutically active substances is well known in the art. Except insofar as any conventional media or agent is incompatible with the active compound, use thereof in the compositions is contemplated. Supplementary active compounds can also be incorporated into the compositions.

The invention includes methods for preparing pharmaceutical compositions for modulating the expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such methods comprise formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such compositions can further include additional active agents. Thus, the invention further includes methods for preparing a pharmaceutical composition by formulating a pharmaceutically

acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention and one or more additional active compounds.

The invention also provides methods (also referred to herein as "screening assays") for identifying modulators, *i.e.,* candidate or test compounds or agents (*e.g.,* peptides, peptidomimetics, peptoids, small molecules or other drugs) which (a) bind to the marker, or (b) have a modulatory (*e.g.,* stimulatory or inhibitory) effect on the activity of the marker or, more specifically, (c) have a modulatory effect on the interactions of the marker with one or more of its natural substrates (*e.g.,* peptide, protein, hormone, co-factor, or nucleic acid), or (d) have a modulatory effect on the expression of the marker. Such assays typically comprise a reaction between the marker and one or more assay components. The other components may be either the test compound itself, or a combination of test compound and a natural binding partner of the marker.

The test compounds of the present invention may be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. Test compounds may also be obtained by any of the numerous approaches in combinatorial library methods known in the art, including: biological libraries; peptoid libraries (libraries of molecules having the functionalities of peptides, but with a novel, non-peptide backbone which are resistant to enzymatic degradation but which nevertheless remain bioactive; see, *e.g.,* Zuckermann *et al.*, 1994, *J. Med. Chem.* 37:2678-85); spatially addressable parallel solid phase or solution phase libraries; synthetic library methods requiring deconvolution; the 'one-bead one-compound' library method; and synthetic library methods using affinity chromatography selection. The biological library and peptoid library approaches are limited to peptide libraries, while the other four approaches are applicable to peptide, non-peptide oligomer or small molecule libraries of compounds (Lam, 1997, *Anticancer Drug Des.* 12:145).

Examples of methods for the synthesis of molecular libraries can be found in the art, for example in: DeWitt *et al.* (1993) *Proc. Natl. Acad. Sci. U.S.A.* 90:6909; Erb *et al.* (1994) *Proc. Natl. Acad. Sci. USA* 91:11422; Zuckermann *et al.* (1994). *J. Med. Chem.* 37:2678; Cho *et al.* (1993) *Science* 261:1303; Carrell *et al.* (1994) *Angew. Chem.*

Int. Ed. Engl. 33:2059; Carell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2061; and in Gallop *et al.* (1994) *J. Med. Chem.* 37:1233.

Libraries of compounds may be presented in solution (*e.g.,* Houghten, 1992, *Biotechniques* 13:412-421), or on beads (Lam, 1991, *Nature* 354:82-84), chips (Fodor, 1993, *Nature* 364:555-556), bacteria and/or spores, (Ladner, USP 5,223,409), plasmids (Cull *et al*, 1992, *Proc Natl Acad Sci USA* 89:1865-1869) or on phage (Scott and Smith, 1990, *Science* 249:386-390; Devlin, 1990, *Science* 249:404-406; Cwirla *et al,* 1990, *Proc. Natl. Acad. Sci.* 87:6378-6382; Felici, 1991, *J. Mol. Biol.* 222:301-310; Ladner, *supra.*).

In one embodiment, the invention provides assays for screening candidate or test compounds which are substrates of a marker or biologically active portion thereof. In another embodiment, the invention provides assays for screening candidate or test compounds which bind to a marker or biologically active portion thereof. Determining the ability of the test compound to directly bind to a marker can be accomplished, for example, by coupling the compound with a radioisotope or enzymatic label such that binding of the compound to the marker can be determined by detecting the labeled marker compound in a complex. For example, compounds (*e.g.,* marker substrates) can be labeled with ^{125}I, ^{35}S, ^{14}C, or ^{3}H, either directly or indirectly, and the radioisotope detected by direct counting of radioemission or by scintillation counting. Alternatively, assay components can be enzymatically labeled with, for example, horseradish peroxidase, alkaline phosphatase, or luciferase, and the enzymatic label detected by determination of conversion of an appropriate substrate to product.

In another embodiment, the invention provides assays for screening candidate or test compounds which modulate the activity of a marker or a biologically active portion thereof. In all likelihood, the marker can, *in vivo*, interact with one or more molecules, such as but not limited to, peptides, proteins, hormones, cofactors and nucleic acids. For the purposes of this discussion, such cellular and extracellular molecules are referred to herein as "binding partners" or marker "substrate".

One necessary embodiment of the invention in order to facilitate such screening is the use of the marker to identify its natural *in vivo* binding partners. There are many ways to accomplish this which are known to one skilled in the art. One example is the use of the marker protein as "bait protein" in a two-hybrid assay or three-hybrid assay

(see, *e.g.,* U.S. Patent No. 5,283,317; Zervos *et al*, 1993, *Cell* 72:223-232; Madura *et al,* 1993, *J. Biol. Chem.* 268:12046-12054; Bartel *et al* ,1993, *Biotechniques* 14:920-924; Iwabuchi *et al*, 1993 *Oncogene* 8:1693-1696; Brent WO94/10300) in order to identify other proteins which bind to or interact with the marker (binding partners) and, therefore, are possibly involved in the natural function of the marker. Such marker binding partners are also likely to be involved in the propagation of signals by the marker or downstream elements of a marker-mediated signaling pathway. Alternatively, such marker binding partners may also be found to be inhibitors of the marker.

The two-hybrid system is based on the modular nature of most transcription factors, which consist of separable DNA-binding and activation domains. Briefly, the assay utilizes two different DNA constructs. In one construct, the gene that encodes a marker protein fused to a gene encoding the DNA binding domain of a known transcription factor (*e.g.,* GAL-4). In the other construct, a DNA sequence, from a library of DNA sequences, that encodes an unidentified protein ("prey" or "sample") is fused to a gene that codes for the activation domain of the known transcription factor. If the "bait" and the "prey" proteins are able to interact, *in vivo,* forming a marker-dependent complex, the DNA-binding and activation domains of the transcription factor are brought into close proximity. This proximity allows transcription of a reporter gene (*e.g.,* LacZ) which is operably linked to a transcriptional regulatory site responsive to the transcription factor. Expression of the reporter gene can be readily detected and cell colonies containing the functional transcription factor can be isolated and used to obtain the cloned gene which encodes the protein which interacts with the marker protein.

In a further embodiment, assays may be devised through the use of the invention for the purpose of identifying compounds which modulate (*e.g.,* affect either positively or negatively) interactions between a marker and its substrates and/or binding partners. Such compounds can include, but are not limited to, molecules such as antibodies, peptides, hormones, oligonucleotides, nucleic acids, and analogs thereof. Such compounds may also be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. The preferred assay components for use in this embodiment is an ovarian cancer marker identified herein, the known binding partner and/or substrate of same, and the test compound. Test compounds can be supplied from any source.

The basic principle of the assay systems used to identify compounds that interfere with the interaction between the marker and its binding partner involves preparing a reaction mixture containing the marker and its binding partner under conditions and for a time sufficient to allow the two products to interact and bind, thus forming a complex. In order to test an agent for inhibitory activity, the reaction mixture is prepared in the presence and absence of the test compound. The test compound can be initially included in the reaction mixture, or can be added at a time subsequent to the addition of the marker and its binding partner. Control reaction mixtures are incubated without the test compound or with a placebo. The formation of any complexes between the marker and its binding partner is then detected. The formation of a complex in the control reaction, but less or no such formation in the reaction mixture containing the test compound, indicates that the compound interferes with the interaction of the marker and its binding partner. Conversely, the formation of more complex in the presence of compound than in the control reaction indicates that the compound may enhance interaction of the marker and its binding partner.

The assay for compounds that interfere with the interaction of the marker with its binding partner may be conducted in a heterogeneous or homogeneous format. Heterogeneous assays involve anchoring either the marker or its binding partner onto a solid phase and detecting complexes anchored to the solid phase at the end of the reaction. In homogeneous assays, the entire reaction is carried out in a liquid phase. In either approach, the order of addition of reactants can be varied to obtain different information about the compounds being tested. For example, test compounds that interfere with the interaction between the markers and the binding partners (*e.g.,* by competition) can be identified by conducting the reaction in the presence of the test substance, *i.e.,* by adding the test substance to the reaction mixture prior to or simultaneously with the marker and its interactive binding partner. Alternatively, test compounds that disrupt preformed complexes, *e.g.,* compounds with higher binding constants that displace one of the components from the complex, can be tested by adding the test compound to the reaction mixture after complexes have been formed. The various formats are briefly described below.

In a heterogeneous assay system, either the marker or its binding partner is anchored onto a solid surface or matrix, while the other corresponding non-anchored component may be labeled, either directly or indirectly. In practice, microtitre plates are often utilized for this approach. The anchored species can be immobilized by a number of methods, either non-covalent or covalent, that are typically well known to one who practices the art. Non-covalent attachment can often be accomplished simply by coating the solid surface with a solution of the marker or its binding partner and drying. Alternatively, an immobilized antibody specific for the assay component to be anchored can be used for this purpose. Such surfaces can often be prepared in advance and stored.

In related embodiments, a fusion protein can be provided which adds a domain that allows one or both of the assay components to be anchored to a matrix. For example, glutathione-S-transferase/marker fusion proteins or glutathione-S-transferase/binding partner can be adsorbed onto glutathione sepharose beads (Sigma Chemical, St. Louis, MO) or glutathione derivatized microtiter plates, which are then combined with the test compound or the test compound and either the non-adsorbed marker or its binding partner, and the mixture incubated under conditions conducive to complex formation (*e.g.,* physiological conditions). Following incubation, the beads or microtiter plate wells are washed to remove any unbound assay components, the immobilized complex assessed either directly or indirectly, for example, as described above. Alternatively, the complexes can be dissociated from the matrix, and the level of marker binding or activity determined using standard techniques.

Other techniques for immobilizing proteins on matrices can also be used in the screening assays of the invention. For example, either a marker or a marker binding partner can be immobilized utilizing conjugation of biotin and streptavidin. Biotinylated marker protein or target molecules can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.,* biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the protein-immobilized surfaces can be prepared in advance and stored.

In order to conduct the assay, the corresponding partner of the immobilized assay component is exposed to the coated surface with or without the test compound. After the reaction is complete, unreacted assay components are removed (*e.g.,* by washing)

and any complexes formed will remain immobilized on the solid surface. The detection of complexes anchored on the solid surface can be accomplished in a number of ways. Where the non-immobilized component is pre-labeled, the detection of label immobilized on the surface indicates that complexes were formed. Where the non-immobilized component is not pre-labeled, an indirect label can be used to detect complexes anchored on the surface; *e.g.*, using a labeled antibody specific for the initially non-immobilized species (the antibody, in turn, can be directly labeled or indirectly labeled with, *e.g.,* a labeled anti-Ig antibody). Depending upon the order of addition of reaction components, test compounds which modulate (inhibit or enhance) complex formation or which disrupt preformed complexes can be detected.

In an alternate embodiment of the invention, a homogeneous assay may be used. This is typically a reaction, analogous to those mentioned above, which is conducted in a liquid phase in the presence or absence of the test compound. The formed complexes are then separated from unreacted components, and the amount of complex formed is determined. As mentioned for heterogeneous assay systems, the order of addition of reactants to the liquid phase can yield information about which test compounds modulate (inhibit or enhance) complex formation and which disrupt preformed complexes.

In such a homogeneous assay, the reaction products may be separated from unreacted assay components by any of a number of standard techniques, including but not limited to: differential centrifugation, chromatography, electrophoresis and immunoprecipitation. In differential centrifugation, complexes of molecules may be separated from uncomplexed molecules through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and densities (see, for example, Rivas, G., and Minton, A.P., *Trends Biochem Sci* 1993 Aug;18(8):284-7). Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the relatively different charge properties of the complex as compared to the uncomplexed molecules may be exploited to differentially separate the complex from

the remaining individual reactants, for example through the use of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, *e.g.,* Heegaard, 1998, *J Mol. Recognit.* 11:141-148; Hage and Tweed, 1997, *J. Chromatogr. B. Biomed. Sci. Appl.,* 699:499-525). Gel electrophoresis may also be employed to separate complexed molecules from unbound species (see, *e.g.,* Ausubel *et al* (eds.), In: Current Protocols in Molecular Biology, J. Wiley & Sons, New York. 1999). In this technique, protein or nucleic acid complexes are separated based on size or charge, for example. In order to maintain the binding interaction during the electrophoretic process, nondenaturing gels in the absence of reducing agent are typically preferred, but conditions appropriate to the particular interactants will be well known to one skilled in the art. Immunoprecipitation is another common technique utilized for the isolation of a protein-protein complex from solution (see, *e.g.,* Ausubel *et al* (eds.), In: Current Protocols in Molecular Biology, J. Wiley & Sons, New York. 1999). In this technique, all proteins binding to an antibody specific to one of the binding molecules are precipitated from solution by conjugating the antibody to a polymer bead that may be readily collected by centrifugation. The bound assay components are released from the beads (through a specific proteolysis event or other technique well known in the art which will not disturb the protein-protein interaction in the complex), and a second immunoprecipitation step is performed, this time utilizing antibodies specific for the correspondingly different interacting assay component. In this manner, only formed complexes should remain attached to the beads. Variations in complex formation in both the presence and the absence of a test compound can be compared, thus offering information about the ability of the compound to modulate interactions between the marker and its binding partner.

Also within the scope of the present invention are methods for direct detection of interactions between the marker and its natural binding partner and/or a test compound in a homogeneous or heterogeneous assay system without further sample manipulation. For example, the technique of fluorescence energy transfer may be utilized (see, *e.g.,* Lakowicz *et al,* U.S. Patent No. 5,631,169; Stavrianopoulos *et al,* U.S. Patent No. 4,868,103). Generally, this technique involves the addition of a fluorophore label on a first 'donor' molecule (*e.g.,* marker or test compound) such that its emitted fluorescent energy will be absorbed by a fluorescent label on a second, 'acceptor' molecule (*e.g.,*

marker or test compound), which in turn is able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.,* using a fluorimeter). A test substance which either enhances or hinders participation of one of the species in the preformed complex will result in the generation of a signal variant to that of background. In this way, test substances that modulate interactions between a marker and its binding partner can be identified in controlled assays.

In another embodiment, modulators of marker expression are identified in a method wherein a cell is contacted with a candidate compound and the expression of mRNA or protein, corresponding to a marker in the cell, is determined. The level of expression of mRNA or protein in the presence of the candidate compound is compared to the level of expression of mRNA or protein in the absence of the candidate compound. The candidate compound can then be identified as a modulator of marker expression based on this comparison. For example, when expression of marker mRNA or protein is greater (statistically significantly greater) in the presence of the candidate compound than in its absence, the candidate compound is identified as a stimulator of marker mRNA or protein expression. Conversely, when expression of marker mRNA or protein is less (statistically significantly less) in the presence of the candidate compound than in its absence, the candidate compound is identified as an inhibitor of marker mRNA or protein expression. The level of marker mRNA or protein expression in the cells can be determined by methods described herein for detecting marker mRNA or protein.

In another aspect, the invention pertains to a combination of two or more of the assays described herein. For example, a modulating agent can be identified using a cell-based or a cell free assay, and the ability of the agent to modulate the activity of a

marker protein can be further confirmed *in vivo*, *e.g.*, in a whole animal model for cellular transformation and/or tumorigenesis.

This invention further pertains to novel agents identified by the above-described screening assays. Accordingly, it is within the scope of this invention to further use an agent identified as described herein in an appropriate animal model. For example, an agent identified as described herein (*e.g.*, an marker modulating agent, an antisense marker nucleic acid molecule, an marker-specific antibody, or an marker-binding partner) can be used in an animal model to determine the efficacy, toxicity, or side effects of treatment with such an agent. Alternatively, an agent identified as described herein can be used in an animal model to determine the mechanism of action of such an agent. Furthermore, this invention pertains to uses of novel agents identified by the above-described screening assays for treatments as described herein.

It is understood that appropriate doses of small molecule agents and protein or polypeptide agents depends upon a number of factors within the knowledge of the ordinarily skilled physician, veterinarian, or researcher. The dose(s) of these agents will vary, for example, depending upon the identity, size, and condition of the subject or sample being treated, further depending upon the route by which the composition is to be administered, if applicable, and the effect which the practitioner desires the agent to have upon the nucleic acid or polypeptide of the invention. Exemplary doses of a small molecule include milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 500 milligrams per kilogram, about 100 micrograms per kilogram to about 5 milligrams per kilogram, or about 1 microgram per kilogram to about 50 micrograms per kilogram). Exemplary doses of a protein or polypeptide include gram, milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 5 grams per kilogram, about 100 micrograms per kilogram to about 500 milligrams per kilogram, or about 1 milligram per kilogram to about 50 milligrams per kilogram). It is furthermore understood that appropriate doses of one of these agents depend upon the potency of the agent with respect to the expression or activity to be modulated. Such appropriate doses can be determined using the assays described herein. When one or more of these agents is to be administered to an animal (*e.g.* a human) in order to modulate expression or activity of a polypeptide or nucleic acid of the invention, a physician, veterinarian, or

researcher can, for example, prescribe a relatively low dose at first, subsequently increasing the dose until an appropriate response is obtained. In addition, it is understood that the specific dose level for any particular animal subject will depend upon a variety of factors including the activity of the specific agent employed, the age, body weight, general health, gender, and diet of the subject, the time of administration, the route of administration, the rate of excretion, any drug combination, and the degree of expression or activity to be modulated.

A pharmaceutical composition of the invention is formulated to be compatible with its intended route of administration. Examples of routes of administration include parenteral, *e.g.*, intravenous, intradermal, subcutaneous, oral (*e.g.*, inhalation), transdermal (topical), transmucosal, and rectal administration. Solutions or suspensions used for parenteral, intradermal, or subcutaneous application can include the following components: a sterile diluent such as water for injection, saline solution, fixed oils, polyethylene glycols, glycerine, propylene glycol or other synthetic solvents; antibacterial agents such as benzyl alcohol or methyl parabens; antioxidants such as ascorbic acid or sodium bisulfite; chelating agents such as ethylenediamine-tetraacetic acid; buffers such as acetates, citrates or phosphates and agents for the adjustment of tonicity such as sodium chloride or dextrose. pH can be adjusted with acids or bases, such as hydrochloric acid or sodium hydroxide. The parenteral preparation can be enclosed in ampules, disposable syringes or multiple dose vials made of glass or plastic.

Pharmaceutical compositions suitable for injectable use include sterile aqueous solutions (where water soluble) or dispersions and sterile powders for the extemporaneous preparation of sterile injectable solutions or dispersions. For intravenous administration, suitable carriers include physiological saline, bacteriostatic water, Cremophor EL (BASF; Parsippany, NJ) or phosphate buffered saline (PBS). In all cases, the composition must be sterile and should be fluid to the extent that easy syringability exists. It must be stable under the conditions of manufacture and storage and must be preserved against the contaminating action of microorganisms such as bacteria and fungi. The carrier can be a solvent or dispersion medium containing, for example, water, ethanol, polyol (for example, glycerol, propylene glycol, and liquid polyethylene glycol, and the like), and suitable mixtures thereof. The proper fluidity can be maintained, for example, by the use of a coating such as lecithin, by the maintenance

of the required particle size in the case of dispersion and by the use of surfactants. Prevention of the action of microorganisms can be achieved by various antibacterial and antifungal agents, for example, parabens, chlorobutanol, phenol, ascorbic acid, thimerosal, and the like. In many cases, it will be preferable to include isotonic agents, for example, sugars, polyalcohols such as mannitol, sorbitol, or sodium chloride in the composition. Prolonged absorption of the injectable compositions can be brought about by including in the composition an agent which delays absorption, for example, aluminum monostearate and gelatin.

Sterile injectable solutions can be prepared by incorporating the active compound (*e.g.*, a polypeptide or antibody) in the required amount in an appropriate solvent with one or a combination of ingredients enumerated above, as required, followed by filtered sterilization. Generally, dispersions are prepared by incorporating the active compound into a sterile vehicle which contains a basic dispersion medium, and then incorporating the required other ingredients from those enumerated above. In the case of sterile powders for the preparation of sterile injectable solutions, the preferred methods of preparation are vacuum drying and freeze-drying which yields a powder of the active ingredient plus any additional desired ingredient from a previously sterile-filtered solution thereof.

Oral compositions generally include an inert diluent or an edible carrier. They can be enclosed in gelatin capsules or compressed into tablets. For the purpose of oral therapeutic administration, the active compound can be incorporated with excipients and used in the form of tablets, troches, or capsules. Oral compositions can also be prepared using a fluid carrier for use as a mouthwash, wherein the compound in the fluid carrier is applied orally and swished and expectorated or swallowed.

Pharmaceutically compatible binding agents, and/or adjuvant materials can be included as part of the composition. The tablets, pills, capsules, troches, and the like can contain any of the following ingredients, or compounds of a similar nature: a binder such as microcrystalline cellulose, gum tragacanth or gelatin; an excipient such as starch or lactose, a disintegrating agent such as alginic acid, Primogel, or corn starch; a lubricant such as magnesium stearate or Sterotes; a glidant such as colloidal silicon dioxide; a sweetening agent such as sucrose or saccharin; or a flavoring agent such as peppermint, methyl salicylate, or orange flavoring.

For administration by inhalation, the compounds are delivered in the form of an aerosol spray from a pressurized container or dispenser which contains a suitable propellant, *e.g.*, a gas such as carbon dioxide, or a nebulizer.

Systemic administration can also be by transmucosal or transdermal means. For transmucosal or transdermal administration, penetrants appropriate to the barrier to be permeated are used in the formulation. Such penetrants are generally known in the art, and include, for example, for transmucosal administration, detergents, bile salts, and fusidic acid derivatives. Transmucosal administration can be accomplished through the use of nasal sprays or suppositories. For transdermal administration, the active compounds are formulated into ointments, salves, gels, or creams as generally known in the art.

The compounds can also be prepared in the form of suppositories (*e.g.*, with conventional suppository bases such as cocoa butter and other glycerides) or retention enemas for rectal delivery.

In one embodiment, the active compounds are prepared with carriers that will protect the compound against rapid elimination from the body, such as a controlled release formulation, including implants and microencapsulated delivery systems. Biodegradable, biocompatible polymers can be used, such as ethylene vinyl acetate, polyanhydrides, polyglycolic acid, collagen, polyorthoesters, and polylactic acid. Methods for preparation of such formulations will be apparent to those skilled in the art. The materials can also be obtained commercially from Alza Corporation and Nova Pharmaceuticals, Inc. Liposomal suspensions (including liposomes having monoclonal antibodies incorporated therein or thereon) can also be used as pharmaceutically acceptable carriers. These can be prepared according to methods known to those skilled in the art, for example, as described in U.S. Patent No. 4,522,811.

It is especially advantageous to formulate oral or parenteral compositions in dosage unit form for ease of administration and uniformity of dosage. Dosage unit form as used herein refers to physically discrete units suited as unitary dosages for the subject to be treated; each unit containing a predetermined quantity of active compound calculated to produce the desired therapeutic effect in association with the required pharmaceutical carrier. The specification for the dosage unit forms of the invention are dictated by and directly dependent on the unique characteristics of the active compound

and the particular therapeutic effect to be achieved, and the limitations inherent in the art of compounding such an active compound for the treatment of individuals.

For antibodies, the preferred dosage is 0.1 mg/kg to 100 mg/kg of body weight (generally 10 mg/kg to 20 mg/kg). If the antibody is to act in the brain, a dosage of 50 mg/kg to 100 mg/kg is usually appropriate. Generally, partially human antibodies and fully human antibodies have a longer half-life within the human body than other antibodies. Accordingly, lower dosages and less frequent administration is often possible. Modifications such as lipidation can be used to stabilize antibodies and to enhance uptake and tissue penetration (*e.g.*, into the ovarian epithelium). A method for lipidation of antibodies is described by Cruikshank *et al.* (1997) *J. Acquired Immune Deficiency Syndromes and Human Retrovirology* 14:193.

The nucleic acid molecules corresponding to a marker of the invention can be inserted into vectors and used as gene therapy vectors. Gene therapy vectors can be delivered to a subject by, for example, intravenous injection, local administration (U.S. Patent 5,328,470), or by stereotactic injection (see, *e.g.*, Chen *et al.*, 1994, *Proc. Natl. Acad. Sci. USA* 91:3054-3057). The pharmaceutical preparation of the gene therapy vector can include the gene therapy vector in an acceptable diluent, or can comprise a slow release matrix in which the gene delivery vehicle is imbedded. Alternatively, where the complete gene delivery vector can be produced intact from recombinant cells, *e.g.* retroviral vectors, the pharmaceutical preparation can include one or more cells which produce the gene delivery system.

The pharmaceutical compositions can be included in a container, pack, or dispenser together with instructions for administration.

V. Predictive Medicine

The present invention pertains to the field of predictive medicine in which diagnostic assays, prognostic assays, pharmacogenomics, and monitoring clinical trails are used for prognostic (predictive) purposes to thereby treat an individual prophylactically. Accordingly, one aspect of the present invention relates to diagnostic assays for determining the level of expression of polypeptides or nucleic acids corresponding to one or more markers of the invention, in order to determine whether an individual is at risk of developing ovarian cancer. Such assays can be used for

prognostic or predictive purposes to thereby prophylactically treat an individual prior to the onset of the cancer.

Yet another aspect of the invention pertains to monitoring the influence of agents (*e.g.*, drugs or other compounds administered either to inhibit ovarian cancer or to treat or prevent any other disorder {*i.e.* in order to understand any ovarian carcinogenic effects that such treatment may have}) on the expression or activity of a marker of the invention in clinical trials. These and other agents are described in further detail in the following sections.

A. Diagnostic Assays

An exemplary method for detecting the presence or absence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample involves obtaining a biological sample (*e.g.* an ovary-associated body fluid) from a test subject and contacting the biological sample with a compound or an agent capable of detecting the polypeptide or nucleic acid (*e.g.*, mRNA, genomic DNA, or cDNA). The detection methods of the invention can thus be used to detect mRNA, protein, cDNA, or genomic DNA, for example, in a biological sample *in vitro* as well as *in vivo*. For example, *in vitro* techniques for detection of mRNA include Northern hybridizations and *in situ* hybridizations. *In vitro* techniques for detection of a polypeptide corresponding to a marker of the invention include enzyme linked immunosorbent assays (ELISAs), Western blots, immunoprecipitations and immunofluorescence. *In vitro* techniques for detection of genomic DNA include Southern hybridizations. Furthermore, *in vivo* techniques for detection of a polypeptide corresponding to a marker of the invention include introducing into a subject a labeled antibody directed against the polypeptide. For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

A general principle of such diagnostic and prognostic assays involves preparing a sample or reaction mixture that may contain a marker, and a probe, under appropriate conditions and for a time sufficient to allow the marker and probe to interact and bind, thus forming a complex that can be removed and/or detected in the reaction mixture. These assays can be conducted in a variety of ways.

For example, one method to conduct such an assay would involve anchoring the marker or probe onto a solid phase support, also referred to as a substrate, and detecting target marker/probe complexes anchored on the solid phase at the end of the reaction. In one embodiment of such a method, a sample from a subject, which is to be assayed for presence and/or concentration of marker, can be anchored onto a carrier or solid phase support. In another embodiment, the reverse situation is possible, in which the probe can be anchored to a solid phase and a sample from a subject can be allowed to react as an unanchored component of the assay.

There are many established methods for anchoring assay components to a solid phase. These include, without limitation, marker or probe molecules which are immobilized through conjugation of biotin and streptavidin. Such biotinylated assay components can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the surfaces with immobilized assay components can be prepared in advance and stored.

Other suitable carriers or solid phase supports for such assays include any material capable of binding the class of molecule to which the marker or probe belongs. Well-known supports or carriers include, but are not limited to, glass, polystyrene, nylon, polypropylene, nylon, polyethylene, dextran, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

In order to conduct assays with the above mentioned approaches, the non-immobilized component is added to the solid phase upon which the second component is anchored. After the reaction is complete, uncomplexed components may be removed (*e.g.*, by washing) under conditions such that any complexes formed will remain immobilized upon the solid phase. The detection of marker/probe complexes anchored to the solid phase can be accomplished in a number of methods outlined herein.

In a preferred embodiment, the probe, when it is the unanchored assay component, can be labeled for the purpose of detection and readout of the assay, either directly or indirectly, with detectable labels discussed herein and which are well-known to one skilled in the art.

It is also possible to directly detect marker/probe complex formation without further manipulation or labeling of either component (marker or probe), for example by utilizing the technique of fluorescence energy transfer (see, for example, Lakowicz *et al.*, U.S. Patent No. 5,631,169; Stavrianopoulos, *et al.*, U.S. Patent No. 4,868,103). A fluorophore label on the first, 'donor' molecule is selected such that, upon excitation with incident light of appropriate wavelength, its emitted fluorescent energy will be absorbed by a fluorescent label on a second 'acceptor' molecule, which in turn is able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter).

In another embodiment, determination of the ability of a probe to recognize a marker can be accomplished without labeling either assay component (probe or marker) by utilizing a technology such as real-time Biomolecular Interaction Analysis (BIA) (see, *e.g.*, Sjolander, S. and Urbaniczky, C., 1991, *Anal. Chem.* 63:2338-2345 and Szabo *et al.*, 1995, *Curr. Opin. Struct. Biol.* 5:699-705). As used herein, "BIA" or "surface plasmon resonance" is a technology for studying biospecific interactions in real time, without labeling any of the interactants (*e.g.*, BIAcore). Changes in the mass at the binding surface (indicative of a binding event) result in alterations of the refractive index of light near the surface (the optical phenomenon of surface plasmon resonance (SPR)), resulting in a detectable signal which can be used as an indication of real-time reactions between biological molecules.

Alternatively, in another embodiment, analogous diagnostic and prognostic assays can be conducted with marker and probe as solutes in a liquid phase. In such an assay, the complexed marker and probe are separated from uncomplexed components by any of a number of standard techniques, including but not limited to: differential centrifugation, chromatography, electrophoresis and immunoprecipitation. In

differential centrifugation, marker/probe complexes may be separated from uncomplexed assay components through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and densities (see, for example, Rivas, G., and Minton, A.P., 1993, *Trends Biochem Sci.* 18(8):284-7).

Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the relatively different charge properties of the marker/probe complex as compared to the uncomplexed components may be exploited to differentiate the complex from uncomplexed components, for example through the utilization of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, *e.g.*, Heegaard, N.H., 1998, *J. Mol. Recognit.* Winter 11(1-6):141-8; Hage, D.S., and Tweed, S.A. *J Chromatogr B Biomed Sci Appl* 1997 Oct 10;699(1-2):499-525). Gel electrophoresis may also be employed to separate complexed assay components from unbound components (see, *e.g.*, Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York, 1987-1999). In this technique, protein or nucleic acid complexes are separated based on size or charge, for example. In order to maintain the binding interaction during the electrophoretic process, non-denaturing gel matrix materials and conditions in the absence of reducing agent are typically preferred. Appropriate conditions to the particular assay and components thereof will be well known to one skilled in the art.

In a particular embodiment, the level of mRNA corresponding to the marker can be determined both by *in situ* and by *in vitro* formats in a biological sample using methods known in the art. The term "biological sample" is intended to include tissues, cells, biological fluids and isolates thereof, isolated from a subject, as well as tissues, cells and fluids present within a subject. Many expression detection methods use isolated RNA. For *in vitro* methods, any RNA isolation technique that does not select against the isolation of mRNA can be utilized for the purification of RNA from ovarian cells (see, *e.g.*, Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York 1987-1999). Additionally, large numbers of tissue samples can

readily be processed using techniques well known to those of skill in the art, such as, for example, the single-step RNA isolation process of Chomczynski (1989, U.S. Patent No. 4,843,155).

The isolated mRNA can be used in hybridization or amplification assays that include, but are not limited to, Southern or Northern analyses, polymerase chain reaction analyses and probe arrays. One preferred diagnostic method for the detection of mRNA levels involves contacting the isolated mRNA with a nucleic acid molecule (probe) that can hybridize to the mRNA encoded by the gene being detected. The nucleic acid probe can be, for example, a full-length cDNA, or a portion thereof, such as an oligonucleotide of at least 7, 15, 30, 50, 100, 250 or 500 nucleotides in length and sufficient to specifically hybridize under stringent conditions to a mRNA or genomic DNA encoding a marker of the present invention. Other suitable probes for use in the diagnostic assays of the invention are described herein. Hybridization of an mRNA with the probe indicates that the marker in question is being expressed.

In one format, the mRNA is immobilized on a solid surface and contacted with a probe, for example by running the isolated mRNA on an agarose gel and transferring the mRNA from the gel to a membrane, such as nitrocellulose. In an alternative format, the probe(s) are immobilized on a solid surface and the mRNA is contacted with the probe(s), for example, in an Affymetrix gene chip array. A skilled artisan can readily adapt known mRNA detection methods for use in detecting the level of mRNA encoded by the markers of the present invention.

An alternative method for determining the level of mRNA corresponding to a marker of the present invention in a sample involves the process of nucleic acid amplification, *e.g.*, by rtPCR (the experimental embodiment set forth in Mullis, 1987, U.S. Patent No. 4,683,202), ligase chain reaction (Barany, 1991, *Proc. Natl. Acad. Sci. USA,* 88:189-193), self sustained sequence replication (Guatelli *et al.*, 1990, *Proc. Natl. Acad. Sci. USA* 87:1874-1878), transcriptional amplification system (Kwoh *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:1173-1177), Q-Beta Replicase (Lizardi *et al.*, 1988, *Bio/Technology* 6:1197), rolling circle replication (Lizardi *et al.*, U.S. Patent No. 5,854,033) or any other nucleic acid amplification method, followed by the detection of the amplified molecules using techniques well known to those of skill in the art. These detection schemes are especially useful for the detection of nucleic acid molecules if

such molecules are present in very low numbers. As used herein, amplification primers are defined as being a pair of nucleic acid molecules that can anneal to 5' or 3' regions of a gene (plus and minus strands, respectively, or vice-versa) and contain a short region in between. In general, amplification primers are from about 10 to 30 nucleotides in length and flank a region from about 50 to 200 nucleotides in length. Under appropriate conditions and with appropriate reagents, such primers permit the amplification of a nucleic acid molecule comprising the nucleotide sequence flanked by the primers.

For *in situ* methods, mRNA does not need to be isolated from the ovarian cells prior to detection. In such methods, a cell or tissue sample is prepared/processed using known histological methods. The sample is then immobilized on a support, typically a glass slide, and then contacted with a probe that can hybridize to mRNA that encodes the marker.

As an alternative to making determinations based on the absolute expression level of the marker, determinations may be based on the normalized expression level of the marker. Expression levels are normalized by correcting the absolute expression level of a marker by comparing its expression to the expression of a gene that is not a marker, *e.g.*, a housekeeping gene that is constitutively expressed. Suitable genes for normalization include housekeeping genes such as the actin gene, or epithelial cell-specific genes. This normalization allows the comparison of the expression level in one sample, *e.g.*, a patient sample, to another sample, *e.g.*, a non-ovarian cancer sample, or between samples from different sources.

Alternatively, the expression level can be provided as a relative expression level. To determine a relative expression level of a marker, the level of expression of the marker is determined for 10 or more samples of normal versus cancer cell isolates, preferably 50 or more samples, prior to the determination of the expression level for the sample in question. The mean expression level of each of the genes assayed in the larger number of samples is determined and this is used as a baseline expression level for the marker. The expression level of the marker determined for the test sample (absolute level of expression) is then divided by the mean expression value obtained for that marker. This provides a relative expression level.

Preferably, the samples used in the baseline determination will be from ovarian cancer or from non-ovarian cancer cells of ovarian tissue. The choice of the cell source is dependent on the use of the relative expression level. Using expression found in normal tissues as a mean expression score aids in validating whether the marker assayed is ovarian specific (versus normal cells). In addition, as more data is accumulated, the mean expression value can be revised, providing improved relative expression values based on accumulated data. Expression data from ovarian cells provides a means for grading the severity of the ovarian cancer state.

In another embodiment of the present invention, a polypeptide corresponding to a marker is detected. A preferred agent for detecting a polypeptide of the invention is an antibody capable of binding to a polypeptide corresponding to a marker of the invention, preferably an antibody with a detectable label. Antibodies can be polyclonal, or more preferably, monoclonal. An intact antibody, or a fragment thereof (*e.g.*, Fab or $F(ab')_2$) can be used. The term "labeled", with regard to the probe or antibody, is intended to encompass direct labeling of the probe or antibody by coupling (*i.e.*, physically linking) a detectable substance to the probe or antibody, as well as indirect labeling of the probe or antibody by reactivity with another reagent that is directly labeled. Examples of indirect labeling include detection of a primary antibody using a fluorescently labeled secondary antibody and end-labeling of a DNA probe with biotin such that it can be detected with fluorescently labeled streptavidin.

Proteins from ovarian cells can be isolated using techniques that are well known to those of skill in the art. The protein isolation methods employed can, for example, be such as those described in Harlow and Lane (Harlow and Lane, 1988, *Antibodies: A Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York).

A variety of formats can be employed to determine whether a sample contains a protein that binds to a given antibody. Examples of such formats include, but are not limited to, enzyme immunoassay (EIA), radioimmunoassay (RIA), Western blot analysis and enzyme linked immunoabsorbant assay (ELISA). A skilled artisan can readily adapt known protein/antibody detection methods for use in determining whether ovarian cells express a marker of the present invention.

In one format, antibodies, or antibody fragments, can be used in methods such as Western blots or immunofluorescence techniques to detect the expressed proteins. In such uses, it is generally preferable to immobilize either the antibody or proteins on a solid support. Suitable solid phase supports or carriers include any support capable of binding an antigen or an antibody. Well-known supports or carriers include glass, polystyrene, polypropylene, polyethylene, dextran, nylon, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

One skilled in the art will know many other suitable carriers for binding antibody or antigen, and will be able to adapt such support for use with the present invention. For example, protein isolated from ovarian cells can be run on a polyacrylamide gel electrophoresis and immobilized onto a solid phase support such as nitrocellulose. The support can then be washed with suitable buffers followed by treatment with the detectably labeled antibody. The solid phase support can then be washed with the buffer a second time to remove unbound antibody. The amount of bound label on the solid support can then be detected by conventional means.

The invention also encompasses kits for detecting the presence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample (*e.g.* an ovary-associated body fluid such as a urine sample). Such kits can be used to determine if a subject is suffering from or is at increased risk of developing ovarian cancer. For example, the kit can comprise a labeled compound or agent capable of detecting a polypeptide or an mRNA encoding a polypeptide corresponding to a marker of the invention in a biological sample and means for determining the amount of the polypeptide or mRNA in the sample (*e.g.*, an antibody which binds the polypeptide or an oligonucleotide probe which binds to DNA or mRNA encoding the polypeptide). Kits can also include instructions for interpreting the results obtained using the kit.

For antibody-based kits, the kit can comprise, for example: (1) a first antibody (*e.g.*, attached to a solid support) which binds to a polypeptide corresponding to a marker of the invention; and, optionally, (2) a second, different antibody which binds to either the polypeptide or the first antibody and is conjugated to a detectable label.

For oligonucleotide-based kits, the kit can comprise, for example: (1) an oligonucleotide, *e.g.*, a detectably labeled oligonucleotide, which hybridizes to a nucleic acid sequence encoding a polypeptide corresponding to a marker of the invention or (2)

a pair of primers useful for amplifying a nucleic acid molecule corresponding to a marker of the invention. The kit can also comprise, *e.g.*, a buffering agent, a preservative, or a protein stabilizing agent. The kit can further comprise components necessary for detecting the detectable label (*e.g.*, an enzyme or a substrate). The kit can also contain a control sample or a series of control samples which can be assayed and compared to the test sample. Each component of the kit can be enclosed within an individual container and all of the various containers can be within a single package, along with instructions for interpreting the results of the assays performed using the kit.

B. Pharmacogenomics

Agents or modulators which have a stimulatory or inhibitory effect on expression of a marker of the invention can be administered to individuals to treat (prophylactically or therapeutically) ovarian cancer in the patient. In conjunction with such treatment, the pharmacogenomics (*i.e.*, the study of the relationship between an individual's genotype and that individual's response to a foreign compound or drug) of the individual may be considered. Differences in metabolism of therapeutics can lead to severe toxicity or therapeutic failure by altering the relation between dose and blood concentration of the pharmacologically active drug. Thus, the pharmacogenomics of the individual permits the selection of effective agents (*e.g.*, drugs) for prophylactic or therapeutic treatments based on a consideration of the individual's genotype. Such pharmacogenomics can further be used to determine appropriate dosages and therapeutic regimens. Accordingly, the level of expression of a marker of the invention in an individual can be determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual.

Pharmacogenomics deals with clinically significant variations in the response to drugs due to altered drug disposition and abnormal action in affected persons. See, *e.g.*, Linder (1997) *Clin. Chem.* 43(2):254-266. In general, two types of pharmacogenetic conditions can be differentiated. Genetic conditions transmitted as a single factor altering the way drugs act on the body are referred to as "altered drug action." Genetic conditions transmitted as single factors altering the way the body acts on drugs are referred to as "altered drug metabolism". These pharmacogenetic conditions can occur either as rare defects or as polymorphisms. For example, glucose-6-phosphate

dehydrogenase (G6PD) deficiency is a common inherited enzymopathy in which the main clinical complication is hemolysis after ingestion of oxidant drugs (anti-malarials, sulfonamides, analgesics, nitrofurans) and consumption of fava beans.

As an illustrative embodiment, the activity of drug metabolizing enzymes is a major determinant of both the intensity and duration of drug action. The discovery of genetic polymorphisms of drug metabolizing enzymes (*e.g.*, N-acetyltransferase 2 (NAT 2) and cytochrome P450 enzymes CYP2D6 and CYP2C19) has provided an explanation as to why some patients do not obtain the expected drug effects or show exaggerated drug response and serious toxicity after taking the standard and safe dose of a drug. These polymorphisms are expressed in two phenotypes in the population, the extensive metabolizer (EM) and poor metabolizer (PM). The prevalence of PM is different among different populations. For example, the gene coding for CYP2D6 is highly polymorphic and several mutations have been identified in PM, which all lead to the absence of functional CYP2D6. Poor metabolizers of CYP2D6 and CYP2C19 quite frequently experience exaggerated drug response and side effects when they receive standard doses. If a metabolite is the active therapeutic moiety, a PM will show no therapeutic response, as demonstrated for the analgesic effect of codeine mediated by its CYP2D6-formed metabolite morphine. The other extreme are the so called ultra-rapid metabolizers who do not respond to standard doses. Recently, the molecular basis of ultra-rapid metabolism has been identified to be due to CYP2D6 gene amplification.

Thus, the level of expression of a marker of the invention in an individual can be determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual. In addition, pharmacogenetic studies can be used to apply genotyping of polymorphic alleles encoding drug-metabolizing enzymes to the identification of an individual's drug responsiveness phenotype. This knowledge, when applied to dosing or drug selection, can avoid adverse reactions or therapeutic failure and thus enhance therapeutic or prophylactic efficiency when treating a subject with a modulator of expression of a marker of the invention.

C. Monitoring Clinical Trials

Monitoring the influence of agents (*e.g.*, drug compounds) on the level of expression of a marker of the invention can be applied not only in basic drug screening,

but also in clinical trials. For example, the effectiveness of an agent to affect marker expression can be monitored in clinical trials of subjects receiving treatment for ovarian cancer. In a preferred embodiment, the present invention provides a method for monitoring the effectiveness of treatment of a subject with an agent (*e.g.*, an agonist, antagonist, peptidomimetic, protein, peptide, nucleic acid, small molecule, or other drug candidate) comprising the steps of (i) obtaining a pre-administration sample from a subject prior to administration of the agent; (ii) detecting the level of expression of one or more selected markers of the invention in the pre-administration sample; (iii) obtaining one or more post-administration samples from the subject; (iv) detecting the level of expression of the marker(s) in the post-administration samples; (v) comparing the level of expression of the marker(s) in the pre-administration sample with the level of expression of the marker(s) in the post-administration sample or samples; and (vi) altering the administration of the agent to the subject accordingly. For example, increased administration of the agent can be desirable to increase expression of the marker(s) to higher levels than detected, *i.e.*, to increase the effectiveness of the agent. Alternatively, decreased administration of the agent can be desirable to decrease expression of the marker(s) to lower levels than detected, *i.e.*, to decrease the effectiveness of the agent.

D. Electronic Apparatus Readable Media and Arrays

Electronic apparatus readable media comprising a marker of the present invention is also provided. As used herein, "electronic apparatus readable media" refers to any suitable medium for storing, holding or containing data or information that can be read and accessed directly by an electronic apparatus. Such media can include, but are not limited to: magnetic storage media, such as floppy discs, hard disc storage medium, and magnetic tape; optical storage media such as compact disc; electronic storage media such as RAM, ROM, EPROM, EEPROM and the like; general hard disks and hybrids of these categories such as magnetic/optical storage media. The medium is adapted or configured for having recorded thereon a marker of the present invention.

As used herein, the term "electronic apparatus" is intended to include any suitable computing or processing apparatus or other device configured or adapted for storing data or information. Examples of electronic apparatus suitable for use with the

present invention include stand-alone computing apparatus; networks, including a local area network (LAN), a wide area network (WAN) Internet, Intranet, and Extranet; electronic appliances such as a personal digital assistants (PDAs), cellular phone, pager and the like; and local and distributed processing systems.

As used herein, "recorded" refers to a process for storing or encoding information on the electronic apparatus readable medium. Those skilled in the art can readily adopt any of the presently known methods for recording information on known media to generate manufactures comprising the markers of the present invention.

A variety of software programs and formats can be used to store the marker information of the present invention on the electronic apparatus readable medium. For example, the nucleic acid sequence corresponding to the markers can be represented in a word processing text file, formatted in commercially-available software such as WordPerfect and MicroSoft Word, or represented in the form of an ASCII file, stored in a database application, such as DB2, Sybase, Oracle, or the like, as well as in other forms. Any number of dataprocessor structuring formats (*e.g.*, text file or database) may be employed in order to obtain or create a medium having recorded thereon the the markers of the present invention.

By providing the markers of the invention in readable form, one can routinely access the marker sequence information for a variety of purposes. For example, one skilled in the art can use the nucleotide or amino acid sequences of the present invention in readable form to compare a target sequence or target structural motif with the sequence information stored within the data storage means. Search means are used to identify fragments or regions of the sequences of the invention which match a particular target sequence or target motif.

The present invention therefore provides a medium for holding instructions for performing a method for determining whether a subject has ovarian cancer or a pre-disposition to ovarian cancer, wherein the method comprises the steps of determining the presence or absence of a marker and based on the presence or absence of the marker, determining whether the subject has ovarian cancer or a pre-disposition to ovarian cancer and/or recommending a particular treatment for ovarian cancer or pre-ovarian cancer condition.

The present invention further provides in an electronic system and/or in a network, a method for determining whether a subject has ovarian cancer or a pre-disposition to ovarian cancer associated with a marker wherein the method comprises the steps of determining the presence or absence of the marker, and based on the presence or absence of the marker, determining whether the subject has ovarian cancer or a pre-disposition to ovarian cancer, and/or recommending a particular treatment for the ovarian cancer or pre-ovarian cancer condition. The method may further comprise the step of receiving phenotypic information associated with the subject and/or acquiring from a network phenotypic information associated with the subject.

The present invention also provides in a network, a method for determining whether a subject has ovarian cancer or a pre-disposition to ovarian cancer associated with a marker, said method comprising the steps of receiving information associated with the marker receiving phenotypic information associated with the subject, acquiring information from the network corresponding to the marker and/or ovarian cancer, and based on one or more of the phenotypic information, the marker, and the acquired information, determining whether the subject has a ovarian cancer or a pre-disposition to ovarian cancer. The method may further comprise the step of recommending a particular treatment for the ovarian cancer or pre-ovarian cancer condition.

The present invention also provides a business method for determining whether a subject has ovarian cancer or a pre-disposition to ovarian cancer, said method comprising the steps of receiving information associated with the marker, receiving phenotypic information associated with the subject, acquiring information from the network corresponding to the marker and/or ovarian cancer, and based on one or more of the phenotypic information, the marker, and the acquired information, determining whether the subject has ovarian cancer or a pre-disposition to ovarian cancer. The method may further comprise the step of recommending a particular treatment for the ovarian cancer or pre-ovarian cancer condition.

The invention also includes an array comprising a marker of the present invention. The array can be used to assay expression of one or more genes in the array. In one embodiment, the array can be used to assay gene expression in a tissue to ascertain tissue specificity of genes in the array. In this manner, up to about 7600 genes

can be simultaneously assayed for expression. This allows a profile to be developed showing a battery of genes specifically expressed in one or more tissues.

In addition to such qualitative determination, the invention allows the quantitation of gene expression. Thus, not only tissue specificity, but also the level of expression of a battery of genes in the tissue is ascertainable. Thus, genes can be grouped on the basis of their tissue expression *per se* and level of expression in that tissue. This is useful, for example, in ascertaining the relationship of gene expression between or among tissues. Thus, one tissue can be perturbed and the effect on gene expression in a second tissue can be determined. In this context, the effect of one cell type on another cell type in response to a biological stimulus can be determined. Such a determination is useful, for example, to know the effect of cell-cell interaction at the level of gene expression. If an agent is administered therapeutically to treat one cell type but has an undesirable effect on another cell type, the invention provides an assay to determine the molecular basis of the undesirable effect and thus provides the opportunity to co-administer a counteracting agent or otherwise treat the undesired effect. Similarly, even within a single cell type, undesirable biological effects can be determined at the molecular level. Thus, the effects of an agent on expression of other than the target gene can be ascertained and counteracted.

In another embodiment, the array can be used to monitor the time course of expression of one or more genes in the array. This can occur in various biological contexts, as disclosed herein, for example development of ovarian cancer, progression of ovarian cancer, and processes, such a cellular transformation associated with ovarian cancer.

The array is also useful for ascertaining the effect of the expression of a gene on the expression of other genes in the same cell or in different cells. This provides, for example, for a selection of alternate molecular targets for therapeutic intervention if the ultimate or downstream target cannot be regulated.

The array is also useful for ascertaining differential expression patterns of one or more genes in normal and abnormal cells. This provides a battery of genes that could serve as a molecular target for diagnosis or therapeutic intervention.

E. Surrogate Markers

The markers of the invention may serve as surrogate markers for one or more disorders or disease states or for conditions leading up to disease states, and in particular, ovarian cancer. As used herein, a "surrogate marker" is an objective biochemical marker which correlates with the absence or presence of a disease or disorder, or with the progression of a disease or disorder (*e.g.*, with the presence or absence of a tumor). The presence or quantity of such markers is independent of the disease. Therefore, these markers may serve to indicate whether a particular course of treatment is effective in lessening a disease state or disorder. Surrogate markers are of particular use when the presence or extent of a disease state or disorder is difficult to assess through standard methodologies (*e.g.*, early stage tumors), or when an assessment of disease progression is desired before a potentially dangerous clinical endpoint is reached (*e.g.*, an assessment of cardiovascular disease may be made using cholesterol levels as a surrogate marker, and an analysis of HIV infection may be made using HIV RNA levels as a surrogate marker, well in advance of the undesirable clinical outcomes of myocardial infarction or fully-developed AIDS). Examples of the use of surrogate markers in the art include: Koomen *et al.* (2000) *J. Mass. Spectrom.* 35: 258-264; and James (1994) *AIDS Treatment News Archive* 209.

The markers of the invention are also useful as pharmacodynamic markers. As used herein, a "pharmacodynamic marker" is an objective biochemical marker which correlates specifically with drug effects. The presence or quantity of a pharmacodynamic marker is not related to the disease state or disorder for which the drug is being administered; therefore, the presence or quantity of the marker is indicative of the presence or activity of the drug in a subject. For example, a pharmacodynamic marker may be indicative of the concentration of the drug in a biological tissue, in that the marker is either expressed or transcribed or not expressed or transcribed in that tissue in relationship to the level of the drug. In this fashion, the distribution or uptake of the drug may be monitored by the pharmacodynamic marker. Similarly, the presence or quantity of the pharmacodynamic marker may be related to the presence or quantity of the metabolic product of a drug, such that the presence or quantity of the marker is indicative of the relative breakdown rate of the drug *in vivo*. Pharmacodynamic markers are of particular use in increasing the sensitivity of detection

of drug effects, particularly when the drug is administered in low doses. Since even a small amount of a drug may be sufficient to activate multiple rounds of marker transcription or expression, the amplified marker may be in a quantity which is more readily detectable than the drug itself. Also, the marker may be more easily detected due to the nature of the marker itself; for example, using the methods described herein, antibodies may be employed in an immune-based detection system for a protein marker, or marker-specific radiolabeled probes may be used to detect a mRNA marker. Furthermore, the use of a pharmacodynamic marker may offer mechanism-based prediction of risk due to drug treatment beyond the range of possible direct observations. Examples of the use of pharmacodynamic markers in the art include: Matsuda *et al.* US 6,033,862; Hattis *et al.* (1991) *Env. Health Perspect.* 90: 229-238; Schentag (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S21-S24; and Nicolau (1999) *Am, J. Health-Syst. Pharm.* 56 Suppl. 3: S16-S20.

The markers of the invention are also useful as pharmacogenomic markers. As used herein, a "pharmacogenomic marker" is an objective biochemical marker which correlates with a specific clinical drug response or susceptibility in a subject (see, e.g., McLeod *et al.* (1999) *Eur. J. Cancer* 35(12): 1650-1652). The presence or quantity of the pharmacogenomic marker is related to the predicted response of the subject to a specific drug or class of drugs prior to administration of the drug. By assessing the presence or quantity of one or more pharmacogenomic markers in a subject, a drug therapy which is most appropriate for the subject, or which is predicted to have a greater degree of success, may be selected. For example, based on the presence or quantity of RNA or protein for specific tumor markers in a subject, a drug or course of treatment may be selected that is optimized for the treatment of the specific tumor likely to be present in the subject. Similarly, the presence or absence of a specific sequence mutation in marker DNA may correlate with drug response. The use of pharmacogenomic markers therefore permits the application of the most appropriate treatment for each subject without having to administer the therapy.

VI. Experimental Protocol

A. Subtracted Libraries

Subtracted libraries are generated using a PCR based method that allows the isolation of clones expressed at higher levels in one population of mRNA (tester) compared to another population (driver). Both tester and driver mRNA populations are converted into cDNA by reverse transcription, and then PCR amplified using the SMART PCR kit from Clontech. Tester and driver cDNAs are then hybridized using the PCR-Select cDNA subtraction kit from Clontech. This technique results in both subtraction and normalization, which is an equalization of copy number of low-abundance and high-abundance sequences. After generation of the subtractive libraries, a group of 96 or more clones from each library is tested to confirm differential expression by reverse Southern hybridization.

To create the subtracted libraries, a first group of regular cDNA libraries was constructed. Library johOa was constructed from a pool of 5 normal ovarian epithelial cell cultures. Library johOb was constructed from a pool of 5 ascites short cultured samples from ovarian cancer patients. Library johOc was constructed from a pool of 6 serous late stage (III/IV) tumor samples. Three subtracted libraries were generated from tumor samples. Library johOd was a subtracted ascites library, where the tester was johOb, and the driver was johOa. The johOe and the johOf library were both subtracted stage III/IV serous tumor libraries. The tester for both of these libraries was johOc, and the driver was a pooled RNA from normal tissues. The tissues used for this driver pool were: kidney, small intestine, prostate, lung, heart, muscle, spleen, pancreas, liver, and lymphocyte. Library cMhOg was the same as the johOc and johOf libraries, with the exception that normal ovary was added to the driver. cMhOh, i, j, and k are all stage I/II subtracted libraries made from pooled tumor RNAs of different histological types (h=serous, I-endometriod, j=clear cell, k=mucinous). The driver was the same for these 4 libraries. It consisted of normal ovarian epithelial RNA and PBML RNA. Of the markers listed in Table 1, SEQ ID NOS: 1-129, 916-1029, 1566-1571 and 1607-1865 were identified in library johOa. Markers identified in johOb include SEQ ID NOS: 130-177, 1030-1081, 1572-1574, and 1866-1974. Markers identified in johOc include SEQ ID NOS: 178-269, 1082-1120, 1575-1577, and 1975-2060. Markers identified in johOd include SEQ ID NOS: 270-370, 1121-1304, 1578-1592, and 2061-2244. Markers

identified in johOe include SEQ ID NOS: 371-611, 1305-1416, 1593-1596 and 2245-2487. Markers identified in johOf include SEQ ID NOS: 612-915, 1417-1565, 1597-1606, and 2488-2871. Of the markers listed in Table 1A, SEQ ID NOS: 2872-2976, 3817-3898, 4438-4443 and 4474-4675 were identified in library cMhOg. Markers identified in cMhOh include SEQ ID NOS: 2977-3376, 3899-4072, 4444-4455, and 4676-5303. Markers identified in cMhOi include SEQ ID NOS: 3377-3495, 4073-4158, 4456-4460, and 5304-5637. Markers identified in cMhOj include SEQ ID NOS: 3496-3742, 4195-4390, 4461-4468, and 5638-6197. Markers identified in cMhOk include SEQ ID NOS: 3743-3816, 4391-4437, 4469-4473 and 6198-6398.

VII. Summary Of The Data Provided In The Tables

Tables 1, 1A, 2 and 3 are being filed concurrently herewith on a compact disc in lieu of paper copies. The compact disc submitted is formatted from an IBM-PC and is compatible with MS-Windows. The disc contains the following four (4) files: Table1.text, containing 1,223kb, Table1A.text, containing 1,582kb, Table2.text, containing 10,600kb, and Table3.text, containing 568kb. The material on the compact disc, namely Tables 1, 1A, 2 and 3, is expressly incorporated by reference.

Tables 1 and 1A show 6398 novel nucleotide sequences. These 6398 novel sequences were determined to be novel through various BLAST searches of available databases. Of these novel markers, SEQ ID NOS: 1566 – 1606 and 4438-4473 are preferred, SEQ ID NOS: 916-1565 and 3817-4437 are more preferred, and SEQ ID NOS: 1 – 915 and 2872-3816 are most preferred.

The sequences of Tables 1 and 1A were re-interpreted and vector sequences removed and those sequences are set forth in Table 2.

Table 3 correlates the SEQ ID NOS. from Tables 1 and 1A with those of Table 2.

The contents of all references, patents, published patent applications, and databases cited throughout this application are hereby incorporated by reference.

Other Embodiments

Those skilled in the art will recognize, or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments of the invention

described herein. Such equivalents are intended to be encompassed by the following claims.

What is claimed is:

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Claims

1. An isolated nucleic acid molecule comprising a nucleotide sequence of Tables 1-2, or a complement thereof.

2. A vector which contains the nucleic acid molecule of claim 1.

3. A host cell which contains the nucleic acid molecule of claim 1.

4. An isolated polypeptide which is encoded by a nucleic acid molecule comprising a nucleotide sequence of Tables 1-2.

5. An antibody which selectively binds to a polypeptide of claim 4.

6. A method for producing a polypeptide comprising culturing the host cell of claim 3 under conditions in which the nucleic acid molecule is expressed.

7. A method for detecting the presence of a polypeptide of claim 4 in a sample comprising:

a) contacting the sample with a compound which selectively binds to the polypeptide; and

b) determining whether the compound binds to the polypeptide in the sample to thereby detect the presence of a polypeptide of claim 4 in the sample.

8. A kit comprising a compound which selectively binds to the polypeptide of claim 4.

9. A method for detecting the presence of a nucleic acid molecule of claim 1 in a sample comprising:

a) contacting the sample with a nucleic acid probe or primer which selectively hybridizes to the nucleic acid molecule; and

b) determining whether the nucleic acid probe or primer binds to a nucleic acid molecule in the sample to thereby detect the presence of a nucleic acid molecule of claim 1 in the sample.

10. The method of claim 9, wherein the sample comprises mRNA molecules and is contacted with a nucleic acid probe.

11. The method of claim 9, wherein the sample is isolated from ovarian tissue.

12. The method of claim 9, wherein the sample is a tumor sample.

13. A kit comprising a compound which selectively hybridizes to a nucleic acid molecule of claim 1.

14. A method of assessing whether a patient is afflicted with ovarian cancer, the method comprising comparing:

a) the level of expression of a marker in a patient sample, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and

b) the normal level of expression of the marker in a control non-ovarian cancer sample,

wherein a significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with ovarian cancer.

15. The method of claim 14, wherein the marker corresponds to a secreted protein.

16. The method of claim 14, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

17. The method of claim 14, wherein the sample comprises cells obtained from the patient.

18. The method of claim 17, wherein the sample is an ovarian tissue sample.

19. The method of claim 14, wherein the sample is an ovary-associated body fluid.

20. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a protein or protein fragment corresponding to the marker.

21. The method of claim 20, wherein the presence of the protein or protein fragment is detected using a reagent which specifically binds with the protein or protein fragment.

22. The method of claim 21, wherein the reagent is selected from the group consisting of an antibody, an antibody derivative, and an antibody fragment.

23. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide or portion thereof, wherein the transcribed polynucleotide comprises the marker.

24. The method of claim 23, wherein the transcribed polynucleotide is an mRNA.

25. The method of claim 23, wherein the transcribed polynucleotide is a cDNA.

26. The method of claim 23, wherein the step of detecting further comprises amplifying the transcribed polynucleotide.

27. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide which anneals with the marker or anneals with a portion of a polynucleotide wherein the polynucleotide comprises the marker, under stringent hybridization conditions.

28. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with ovarian cancer by a factor of at least about 2.

29. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with ovarian cancer by a factor of at least about 5.

30. The method of claim 14, comprising comparing:

a) the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-2, and

b) the normal level of expression of each of the plurality of markers in samples of the same type obtained from control humans not afflicted with ovarian cancer,

wherein the level of expression of more than one of the markers is significantly altered, relative to the corresponding normal levels of expression of the markers, is an indication that the patient is afflicted with ovarian cancer.

31. The method of claim 30, wherein the level of expression of each of the markers is significantly altered, relative to the corresponding normal levels of expression of the markers, is an indication that the patient is afflicted with ovarian cancer.

32. The method of claim 30, wherein the plurality comprises at least three of the markers.

33. The method of claim 30, wherein the plurality comprises at least five of the markers.

34. A method for monitoring the progression of ovarian cancer in a patient, the method comprising:

a) detecting in a patient sample at a first point in time, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2;

b) repeating step a) at a subsequent point in time; and

c) comparing the level of expression detected in steps a) and b), and therefrom monitoring the progression of ovarian cancer.

35. The method of claim 34, wherein the marker corresponds to a secreted protein.

36. The method of claim 34, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

37. The method of claim 34, wherein the sample comprises cells obtained from the patient.

38. The method of claim 37, wherein the patient sample is an ovarian tissue sample.

39. The method of claim 34, wherein between the first point in time and the subsequent point in time, the patient has undergone surgery to remove ovarian tissue.

40. A method of assessing the efficacy of a test compound for inhibiting ovarian cancer in a patient, the method comprising comparing:

a) expression of a marker in a first sample obtained from the patient and exposed to the test compound, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and

b) expression of the marker in a second sample obtained from the patient, wherein the sample is not exposed to the test compound,

wherein a significantly lower level of expression of the marker in the first sample, relative to the second sample, is an indication that the test compound is efficacious for inhibiting ovarian cancer in the patient.

41. The method of claim 40, wherein the first and second samples are portions of a single sample obtained from the patient.

42. The method of claim 40, wherein the first and second samples are portions of pooled samples obtained from the patient.

43. A method of assessing the efficacy of a therapy for inhibiting ovarian cancer in a patient, the method comprising comparing:

a) expression of a marker in the first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and

b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy,

wherein a significantly lower level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting ovarian cancer in the patient.

44. A method of selecting a composition for inhibiting ovarian cancer in a patient, the method comprising:

a) obtaining a sample comprising cancer cells from the patient;

b) separately exposing aliquots of the sample in the presence of a plurality of test compositions;

c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2; and

d) selecting one of the test compositions which alters the level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

45. A method of inhibiting ovarian cancer in a patient, the method comprising:

a) obtaining a sample comprising cancer cells from the patient;

b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;

c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2; and

d) administering to the patient at least one of the test compositions which alters the level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

46. A kit for assessing whether a patient is afflicted with ovarian cancer, the kit comprising reagents for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-2.

47. A kit for assessing the presence of ovarian cancer cells, the kit comprising a nucleic acid probe wherein the probe specifically binds with a transcribed polynucleotide corresponding to a marker selected from the group consisting of the markers listed in Tables 1-2.

48. A kit for assessing the suitability of each of a plurality of compounds for inhibiting ovarian cancer in a patient, the kit comprising:

a) the plurality of compounds; and

b) a reagent for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-2.

49. A method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with ovarian cancer, the method comprising:

isolating a protein or protein fragment corresponding to a marker selected from the group consisting of the markers listed in Tables 1-2;

immunizing a mammal using the isolated protein or protein fragment;

isolating splenocytes from the immunized mammal;

fusing the isolated splenocytes with an immortalized cell line to form hybridomas; and

screening individual hybridomas for production of an antibody which specifically binds with the protein or protein fragment to isolate the hybridoma.

50. An antibody produced by a hybridoma made by the method of claim 42.

51. A kit for assessing the presence of human ovarian cancer cells, the kit comprising an antibody, wherein the antibody specifically binds with a protein or protein fragment corresponding to a marker selected from the group consisting of the markers listed in Tables 1-2.

52. A method of assessing the ovarian cell carcinogenic potential of a test compound, the method comprising:

a) maintaining separate aliquots of ovarian cells in the presence and absence of the test compound; and

b) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2,

wherein a significantly altered level of expression of the marker in the aliquot maintained in the presence of the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound possesses human ovarian cell carcinogenic potential.

53. A kit for assessing the ovarian cell carcinogenic potential of a test compound, the kit comprising ovarian cells and a reagent for assessing expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2.

54. A method of inhibiting ovarian cancer in a patient at risk for developing ovarian cancer, the method comprising inhibiting expression of a gene corresponding to a marker selected from the markers listed in Tables 1-2.

55. A method of treating a patient afflicted with ovarian cancer, the method comprising providing to cells of the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker selected from the markers listed in Tables 1-2.

56. A method of inhibiting ovarian cancer in a patient at risk for developing ovarian cancer, the method comprising decreasing expression of a gene corresponding to a marker selected from the markers listed in Tables 1-2.

57. A method for determining whether ovarian cancer has metastasized in a patient, the method comprising comparing:

a) the level of expression of a marker in a patient smaple, wherein the marker is selected from the group consisting of the markers listed in Tables 1-2, and

b) the normal level or non-metastatic level of expression of the marker in a control sample

wherein a significant difference betweent he level of expression in the patient sample and the normal level or non-metastatic level is an indication that the ovarian cancer has mestastasized.

58. The method of claim 57, wherein the marker corresponds to a secreted protein.

59. The method of claim 57, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

60. The method of claim 57, wherein the sample comprises cells obtained from the patient.

61. The method of claim 60, wherein the patient sample is an ovarian tissue sample.

62. A method for assessing the aggressiveness or indolence of ovarian cancer comprising comparing:

a) the level of expression of a marker in a sample, wherein at least one marker is selected from the markers of Tables 1-2, and

b) the normal level of expression of the marker in a control sample, wherein a significant difference between the level of expression in the sample and the normal level is an indication that the cancer is aggressive or indolent.

63. The method of claim 62, wherein the marker corresponds to a secreted protein.

64. The method of claim 62, wherein marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

65. The method of claim 62, wherein the sample comprises cells obtained from the patient.

66. The method of claim 65, wherein the patient sample is an ovarian tissue sample.

TABLE 1

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Sequence 1
ACGCGTCCGGGAGACACAAAGCAGGAAGCCTCCGGGAGACCAGAGCTGGGTGCAGACATA
CACACACACATACACACAGACACACAGAGTCACACACACTCACACACACTCTCTCTCTCT
CTCCCTCTGTCTTTCTCTCTCTCTCTCTCTCTCTCTGTCCTTTCCTCCTGGACAGATCCACA
GTTATACACAGAAACAAACACACACGCACGTAGAGAAGTGATTCACAAACACTTAAAGAC
ATAAATCACAGGTGCAAAGCCATACCTGGGCTCAAAAACCTCCAAGAGAACGCAGCCTCA
GACCCACCCAGGGGCCAGGGGCCAGGCTGTTTGCGAGACCAGCCCAGGCGGGACCCAGGC
TTGCACGGGCAGGTACACGACATTCTTGGGCATACGCAGCCCGCCTGGCCGGAGCTGTGG
GAGTCCTCAGCCCCAAGACCCAGCAGGCGTCTGAGGCCTGCCCACTAAGGAGGAGGAGTC
ATTGCTGCCATCATTTATCATNCCCTCCCCAGCCACAGTCTGAGGAGCCCNTGTNCACCC
TTCCCA

Sequence 2
CGTCCGGAAAGCTGGTGGGAATGCTAAGTTCCGAGAGTTCCTGGAGTCTCAGGAGGATTA
CGATCCTTGCTGGTCCTTGCAGGAGAAGTACAACAGCAGAGCCGCGGCCCTCTTTAGGGA
TAAGGTGGTCGCTCTGGCCGAAGGCAGAGAGTGGTCTTTGGAGTCATCACCTGCCCAGAA
CTGGACCCTACCTNAGCCCANGACGCTGCCGTCCATGGTGCACCGAGTCTCTGGCCAGCC
GCAGAGTGTGACCGCCTCCTNGGACAAGGCTTTTGAAGACTGGCTGAATGATGACCTCGG
CTCCTATCAAGGGGCCCAGGGGAATCGCTACGTGGGGTTTGGGAACACGCCACCGCCTCA
NAAGAAAGAAGATGACTTTCTCAACAACGCCATGTCCTCCCTGTACTCGGGCTGGA

Sequence 3
NCCACGCGTCCGGGACGCGGGCGCCAGGTGCACAGCCCCAGTCCGCTGCGGGCGGGCGTC
GACATCTGCCGCGTGAGCGCGAGCTGGAGCTACACCGCTTTCGTGACCCGTGGAGGCCGC
TTGGAGCTGTCGGGCTCAGCCAGCGGCGCGGCGGGCCGCTGCAAGGACGCGTGGGCCTCG
GAGGGGCTCCTCGCGGTGCTGCGCGCCGGGCCGGGGCCGGAGGCGTTACTGCAGGTCTGG
GCGGCCGAATCGGCGCTGCGTGGGGAGCCATTGTGGGCCCAGAATGGTGGTGCCCGAGGC
CGAAGGGGGAAGGACGATCCGGCCGGGTGAAGGCCCAAGCTTGGGGAGGCTACCCCTTGC
TTGCCCTGCGGCCCCGTGCCCCTACGTGAGCCCCCGCGGGCCGCCCTTCTACCGGCCTTT
TGGCTTCCGGGAGCTTGCGGGGCAACGCCAACTTGGGAGCTGGGGCCGCCAGCAACCCCG
TTGCTTGTTGGACGCTGTGCCCAAAGGTGGTTTCTGGGGGGCGGGG

Sequence 4
AGTCNCCACGCGTCCGGGAATTGANGCCGCGGGGCGGGCGGCGGCGGCGGCTGGGCGGCG
GCCGGGACCCAGCGGGCCAGGTGGGGACGGCGCGGAGCGGGTGCGGGAGATGCCGTGCGG
GACTGGGGCCACCTGAGCCGCCCGCCTCGTCCCCGCCTTCTGTGGGAAGGATGTGCGCGC
GGATGGCCGGTCGCACAACAGCGGCCCCTCGGGGGCCCTACGGCCCCTGGCTCTGCCTCC
TGGTGGCCCTCGCCCTGGGACCGTCGTGAGAGTGGACTGTGGCCAGGCTCCCCTGGACCC
TGTCTACCTGCCGGCAGCCCTGGAGCTCCTAGACGCCCCTGAACACT

Sequence 5
TCNCCACGCGTCCGACTGTATGTATTCTGGATACAGGGGATACTGGGCTCGCTATGTGTG
TGGAGCCATCCCTTCCTTGCCCCAGCCCCACCTCCCTCTCAAACCCTCTCTGGCTCTTTC
TGAGCTTCCTTTCCTGCTCCCCAGCTTGCCCAGTGCTCAGTGCCCCACTTGGCTCTTTTG
CTACTTCGGGTCAGGTGGAGCCTCTTGGGAATGTGAAGTGCCTTACAGAAAGATTGCACT
TCAAGAGGAGAGGCTGCAGGGAGCCATCCTAAACCCAGAGGCCTGGAGCTTACCCGTGTC
ACTTTACTTTTGTACACAAGGGGGTCTCCTTAGTGCCCTCGAGAAGGGATTCTTGGGCCC
TGAGCTTCTACTCCTGAGGCCACCTTCTGTGCAAGCCCCAAGCTCCCTCAACTCTAGGCT
TGGAGTCCTCAGTGGGGAAAAGCCCTGNTTTGGGG

Sequence 6
CGTCCGCGTCCTCGCTGCGGAAAGTTGGGGCAACCTGTTGCTAGTCTGGTCGTTGGTGAC
AGCGAGGCTTCCGCGCTCGCTGCTGGTGAGCAGCCCCGGCGTGCCCCGCGGGCTGGAAGA
GGCGGCGGCGTGATGCGGCCCGTGGACGCGCCCCGCGCCGGCCCGCGAGAACCTGGCCTC
CCTGGAGCGCGAGCGCGCCCGGGCGCACTGGCGGGCCCGCAGGAAGCTGCTGGAGATCCA

TABLE 1

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GAGCCTGCTCGACGCCATCAAGAGTGAGGTGGAGGCAGAGGAGCGGGGCGCCCGGGCCCC
AGCACCCCGCCCCGCGTGCGGAGGCTGAGGAGNCGGGTGGCTCGGCTGTGCGCCCGAAGC
AGAGAGGAAGGCTGCGGAAGCGGCGCGGATGGGGCAGGCGGGATCGTGGGAGCTGCACNN
ACCGGATCGCCGGCTTGCGAGTGCTGCTGAGCCGGCGAGGCCCNCGGGTCTGGAAGCGGA
ANCGCGCGGG

Sequence 7

NTTCGGGAGTCGACCACGCGTCCGCGCGCTGGAGGAGTGGAGCAAGCACCCGGCCCGGCC
CTGGGGGCTGACAGTCGGCAAAGTTTGGCCCGAAGAGGAAGTGGTCTCAAACCCCGGCAG
GTGGCGACCAGGCCAGACCAGGGGCGCTCGCTGCCTGCGGGCGGGCTGTAGGCGAGGGCG
CGCCCCAGTGCCGAGACCCGGGGCTTCAGGAGCCGGCCCCGGGAGAGAAGAGTGCGGCGG
CGGACGGAGAAAACAACTCCAAAGTTGGCGAAAGGCACCGCCCCTACTCCCGGGCTTGCC
GCCGCCTCCCCGCCCCCAGCCCTGGCATCCAGAGTACGGGTCGAGCCCGGGCCATGGAGC
CCCCCTGGGGAAGGCGGCACCAGGGGAGCCTTGGGCGCCCNGGGCTTCGGCCGCGACCCC
ATTTGGGGTAGACCACAAGAAAGCTTCGGGACCCTTTCGGCACCTTTGGACAGCCAAGAA
TGGCTGNTGGGCACCCTTTCTTCT

Sequence 8

CCCCGCGTCCGGAGCACGCAAAGGGAATAAATTGTAATTAGGTGGTGGGTGGCTAAAAAT
GACAATGCAAAGGTGTTGGATTAAAAAAAAAATCTGGTAGTAGAGGGAAATTATGGAGGA
TTTTTAAAAAGGTTAATGATAATATCCATCTACTTATGTAACTTTTTTTGGAGATACCTG
ATAATAGTGTAGAGTGCATTGGAGAGGAAAAGTAGGAGTTGTAAAGACCATTTTGGATAA
ACTTTGAAGCAAGGGATAATGGCCTCAACCAAGGTAGTGGTGCTGAAGATTGTTTACATA
AATAAGCAGATACAAATAGAAGGGATTTTTCAAGTGGCATTGTAACTGCACTTTTCAAAG
GTTATTTGCCAAAAATCAAATTAACGGTATCTTCAAAAATCATGTTTGATGGATGTATCA
TCAAGGGCTTTCTTAAAATTTTGTTGAAAGCCAAGGAA

Sequence 9

CGCCTTCCCGGGAAGTTTGGAGGGCCCCGNAGGGGAAGCCCCCGCGNCTTCNGGGGGCCN
GNCGGGCTTGGAAGGCAANCCCCACCCCAAGTTTCCCCGCCNANGGANTNCAATGAANCT
TGACCGGGGCCCCCCGGAACCCCNCGCTNGNCTTNTTNGGGGGTGGTTCCTTGGGTTCCG
GTGGGGGGGAACCCCAAGTGCTTTTTCAAGGCCCCGGCCGGGCCCGGGGCCCCGGAAAGG
GCCTTTCAAGTTCTTNCCTTTCCCCGGNTTGAAAGAAGGNAAAAGGCCGGGAANGGAAAC
CNGGGNAAAACCCGCNGGGNNGGGGCGGCCTTCNNCCGCCNGGGCGCCCCTTGCCNGGGG
GGGGGNAAAGGGGNCAAAGTTTTCCCNGGGGCCCCCGGGGCCCCGGCNGNCCCTTTNAAN
TCAAGGGGGCCGGGNNCGGNCTTTCCCCAANNCGGCCAAGTTCCTTCAAAGGGGCCCCCC
CGGGNTTTGGGCCCGGNCCGGGNCNGNAACCTTGGGGAAGGAAAAAATTCAAAAAGTTTT
GTTGGCCCGGTTTCCGGGTNGGAATTGCCCCCCNAAAATTTGNAAGCCGGGGGGGGGGNN
NCCTTGGGGGCCCCTTCTTTGCCCCCNTTTAAAGGGAANGGGCNAAAACCTTTNCCCAAC
CGNCCAANNGCCCCCGTNAAAAAANGGGCCGGCCTTNNTTTTGNCCGGGGCCCCNAANAA
GGGCCTTTTCGNTTTTTTCGGGTTTTTTCCCCCGGGCCGGGCGGGGCGGNNNCNTTTTTT
TTTTTGGCTTTTAAAGGGGGG

Sequence 10

NCGCGTCCGCCGCATTGTGGCCAAGTGCCATGAGGAGCAGCTGGATCATTCTGTCCAGTC
ATATATTAAGTTCGTGTTCAAGACCAGGGCATGCAAGGAGAGGACTGTACATGAGGAACT
GNCTAAAAATGTGACTGGTCTTTTGAAATCAAATGACTCAACAACAGTAAAGCATGTCCT
AAAGCATTCCTGGTTCTTCTTTGCAATTATCCTAAAATCGATGGCACAGCACTTGATTGA
CACAAATAAAATCCAGCTTCCCCGGCCTCAGAGATTTCCTGAATCTTACCAAAATGAATT
GGACAATCTTGNCATGGTCCTATCCGACCATGTGATTTGGGAAATACAAGGATGCACTTG
AAGAAACANGAAGGGCAAACCACAGCGTTGCCAGATTTCTCAAGCGCTGCTTTAC

Sequence 11

CGCCNCGCGTCCGGCTTCCTAGAAGAGCACAGTCCCTTAAAGCACCCTCTATTGCTACAA
TTAAAAGTCTAGCAGATTGTAACTTTAGTTACACAAGTTCTAGAGATGCTTTTGGCTATG
CTACACTGAAAAGACTACAGCAACAAAGAATGCATCCATCCTTATCTCACTCTGAAGCTT

TABLE 1

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TGGCATCTCCAGCAAAAGATGTGCTATTTACTGATACCATCACCATGAAGGCCAACAGTT
TTGAGTCCAGATTAACACCAAGCAGGTTCATGAAAGCCTTAAGTTATGCATCATTAGATA
AAGAAGATTTATTGAGTCCTATTAATCAAAATACCCTGCAACCGATCTTCCTCAGTGCGG
GCCATGGNGTCCAGTGCCACATNGGGGGGGTCAGAATGATTACATTGGGCTTGCTCTCCC
GGNGGATATAAATGATATATTTCANGGTAAGGGTATTTCTTATTTTTAGACAAAAAACAT
CCCCNCATGATGATCCAGGNGCCAGAGCATTTGCCCTGAATGCAGGAGGGCTTTCATNTG
GNACTGGGNGGGCTTTGNAAAAAATTTTTT

Sequence 12

TTCGGGAGTCGACCACGCGTCCGCCAAGTCCTGCGATGATGGACTCAACACCTTCCGCGA
CGAGGGCCGGGTTCTGCGGCGCCTGCCAAACCGCATACCCAGCCTGCGGATGCTCCGGAG
CTTCTTCACCGACGGGTCCTTGGATAGCTGGGGCACCTCTGAAGATGCTGACGCTCCTTC
TAAGCGACACTCAACCTCTGACCTCTCAGATGCGACCTTCAGCGATATCAGGAGAGAAGG
CTGGTTGTATTATAAGCAGATTCTCACCAAGAAGGGGAAGGCTGAGGACCGGGATGACAT
GCTGGGCTGGATCAGAGCGATCCGGGAGAACAGCAGGGCCGAGGGCGAGGACCCCCGGCT
GTGCCAACCAAGCTCTTGATCAGCAAGAAGCTTAATGATTATCGCAAAGTGAGCCATAGC
TCTGGGCCCAAAGCTTGATTTCTTCCC

Sequence 13

GTATTAATGTTCTCAGGCATGAAGCAGAATTTTACGGGATCACTCCATTAGTAAGAAGGC
TTCTCTTATGTGAAGAATTGGAGCGTTCCTCTTGTGGCAGTGTCCTTTTTCATGGTTACT
TGCCCCCACCAGGTATTCCTAGTNCGTAAAATAAACAACACAGTCAGATCTGCTGATTCT
AGGAATGGTCTAAATTCTACAGAAGGTGAAGCCCGGGGAAATGGTACACAGCCTGTTCTC
TCTGGAACGGGAGAAGAAACTGTTAGGCTAGGATTTCCTGTGGATCCACNAAAGGTGCTA
ATAGTAGCTGGCCATCACAACTGGATTGTAGCTGCATATGCCCATTTTGCTGTGTGTTAC
AGAATCAAAGAATNTTNANGATGGCAGCAAGTGNTTACGAGCCCATATTTGGATTGGACT
ATCGAACGAGTAGNTTTAAATGCAAAGGTGGATGGAGGGCCACATGGAGACAAAAGACAA
AAATG

Sequence 14

GCCNCGCGTCCGAAAAAATTAAGAGAAGGCCTGGCGGCCGGTCTGAAGTCATCTATAATT
ATGTACAACGCCCCTTCATCCAGATGTCATGGGAAAAGGAAGAAGGGAAGAGTCGCCATG
TGGATTTCTAGTGTGTTCGAAGCAAATCCCTCACGAATCTGGTAGCTGCTGGAGATGATG
TCTTGGAGGACCAGGAGATATTAATGCATCACCCACCCCAAGTGGATGAACTTGACCGGC
TAAATGCCCCACTTTCTCAGATGGCTTCTAACGACTTTCAGGATTAGGGCCAGCTGTGGG
TCTACTCCTTGTTGGAGCCCATCTCACCTGGGATGCCTGCAGCCAGCCCTCCCTCGTGAT
TTGTCTCACCTTGAGTAGGAGACATGCTTCTCCCCTAACCTTTTCCTTTCTGCCATAATT
AACATATGTCCTTTTCAGTAAGTCCATGCCTCTGGCAGGGGATGAAAGAAGTACTCACTG
GGTAATTAGCTACCATCTTTGCAGCACCCTGGTAACTTGAAAAATTT

Sequence 15

TCGGGAGTCGACCCCGCGTCCGCCGAGCGGGGCGGCGCGGCTGGCGGGGCCGGCGGCCGG
CTGAAGCGAGAGCGCGACGCGACGCGACCGCGGCTTCCCGAGCTGCGCCTGGCCGNCCAG
CGCCGCGGNCCGCCCGAGGCCTGGAGGGGTCCGGGCCGCCGTCCATGGTCGCGGCGTCCT
GAGGCGGGGGACGCGCCCGGCGCCCCCGGCCCTCCTNCGCCTCCTCCCGCGGGGCGGGCG
GCCTCCTCCGGCGCCTNCCCGCGCCCGCCCGCCGNTCGCCGCCGCCTCCCTCCCTCCTTC
CCTGCGGCTCCCCCGGCTTTCGGAGCCCGGGGGCGGCCTGTGGCGCGCGGAGCCCGCGCC
GGACTGCGCCTNTTTGGACCTTGAGGGGAAACATGCGTTTGCCNTGGATCGTTTGAAATT
CTGAGTTTGGGATCCCCGNCCGGCCGNCTGGCTTTTTCGCCCGCGGGTTTTTTCCTTTTT
TCCTTTTGCTTTTTTTTCCTTCTT

Sequence 16

NGCCCCCGCGTCCGTTTTAATTATTTTGTTNGAGCCTGCANAGTAANGTTNTTAAAAATA
TAACGTTCATACGCATTTTAATTAACTTTGAAAGTTCATATGCATCAGAAAATTTATGAA
AATTTGAATGAAAAAAATTTCATCTATTTATTTTTCTAATTTTAATGGCAAATTTACACT
ATTATGGCTGATAATTCTGTGAACTTACCTTCTTGTTGACTGATTCTTTTTCCCTTAATC

TABLE 1
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CCAGCTTTAAGGAGATAGGTGAAGTTATTGTACAAAGTTAAGTGATACCATAAAGTATAT
ATTATAAAGTCATACATGGCTTTTGGACAGTNTTATATTTCAGTTGCAGTGCTGCATTCC
ATTAAATTTCATAAAATGCTAGGGAAAATGTGTTTGATAAAATTTTNTGCAGTGAGAAAT
GACAGACTGAGTGCCTGACAATTTAAGCCACATATGAAAGTATGCAAGTAAAGANTTCAG
GTCCTTAATGTCATCTATATCATGGTATAAAAG

Sequence 17
CCACGCGTCCGGACGAGACGAGCCCACTAGTGTCCCCCGAGCGGGCCCAACCCCCGGACT
ACACCTTCCCGTCGGGCTCGGGCGCTCACTTTCCGCAGGTGCCCGGGGGCGCGGTCCGAG
TGGCTGGCGGCGGCCGGCTCGGGCCCCTNTCCGCCGGGCTCGCCGGGCCACGACCGCTGA
GCGGCAGCCACTGTTGGATCGGGCCCGGGGCGCGGNGGCCCAGGGCCAGACCCAAACCGT
GGCGGCGCAGGCCCAGGCTCTGGCCGTTCANGCCGNGGCGGCAGTCCACGCCGATCAGGC
CCACCGNGAGCGGAACGAG

Sequence 18
GGGAGTCGACCNCGCGTCCGGGCGGTGGGTGTCCGCTTCTCTCTGCTCTTCGACTGCACC
GCACTCGCGCGTGACCCTGACTCCCCCTAGTCAGCTCAGCGGTGCTGCCATGGCGTGGCG
GCGGCGCGAAGCCGGCGTCGGGGCTCGCGGCGTGTTGGCTCTGGCGTTGCTCGCCCTGGC
CCTGTGCGTGCCCGGGGCCCGGGGCCGGGCTCTCGAGTGGTTCTCGGCCGTGGTAAACAT
CGAGTACGTGGACCCGCAGACCAACCTGACGGTGTGGAGCGTCTCGGAGAGTGGCCGCTT
CGGCGACAGCTCGCCCAAGGAGGGCGCGCATGGCTTGGTGGGGCGTCCCGTGGGCGCCCG
GCGGAGACCTCGAGGGCTGCGCGCCCGACACGCGCTTTTTTCGTGCCCGAGCCCCGCGGC
CGAGGGGCCCGCGCCCTTGGGTCGCCCTGGTGGCTCGTGGGGGCTTGCACCTTTAAGGAC
AAGGTGCTTGTGGCGGGCGCCGAGG

Sequence 19
NATGTNGNNCNAAAAAGGCCNGCNTTANAGGCCAGGAAACNCGTAAAAAGGGCNCGCGTT
GCTGTGCGTCTTTTCCATAGGCTCGCGNCCCCCTGACCNAGTCATCATCAAAAAATCCGA
CNGCTCAAGTCATGAGGTTGGCCGAAAACTCCGACAGGGACTTNTAANAGNATACCCANG
GGCGNTTTCCCCCTGGGAAGGCTCCCTTCGTGGCGCNTCTCNNTGTTTCCAGACCCCTGC
CCCGCTTTACNCGGNATTACCCTNGTCCCCGCCNTTTTCTTCCCTTTCGNGGAAAGCGGT
NGGGCGCCTTCTCNTCAATTAGGCTTCACCGCCTGNTAANGGTATTCTCAAGTTNCGGNT
GTANGGGTGCCGTTTTCGCTTCCAAAGNCTGGGGCCTTNTGTGCCACCGGAAACCCCCCC

Sequence 20
TTCGGGAGTCGACCNCGCGTCCGCCTGGAGCCGCCAGAGTTTCCGCACCCGGGAGGGAGA
TGCGGCCGGGGCTCAGGCTCCTTGCAGTTGTAATTTAGATTCGAGAAGTGGTTTATCCTT
TGACTGGAAAAGAAAAGTAGCTGCAGTATTCCCCCAGCACTTGCTGAGAGCATGCCGTAT
GCCAGGCTGTGAGGCTCGAGAGACAAGCAGTGGAAGAGTTGCGGCCTGTTTCATCTCTGG
ATTGTAAATCTGAGCCTCCTTCTGGCCCCTGGAAGGGGACAGCATCACGATGGAATGATT
CCTAACCAGCATAATGCTGGAGCCGGGAGCCACCAACCTGCAGTTTTCAGAATGGCCGTG
TTGGACACTGATTTGGATCACATTCTTCCATCTTCTGTTCTTCCTCCATTCTGGGCTAAG
TTAGTAGTGGGATCGGTTGCCATTGTGTGTTTTGCACGCAGCTATGATGGAGACTTTGTC
TTTGATGACTCAGAAGCTATTGTTAACAATAAGG

Sequence 21
CGACCACGCGTCCGGCAGCCGCGGGGCGGGCGGCGGCGGCGGCGGCGGCCGGGACCC
AGCGGGCCAGGTGGGGACGGCGCGGAGCGGGTGCGGGAGATGCCGTGCGGGACTGGGGCC
ACCTGAGCCGCCCGCCTCGTCCCCGCCTTCTGTGGGAAGGATGTGCGCGCGGATGGCCGG
TCGCACAACAGCGGCCCCTCGGGGGCCCTACGGCCCCTGGCTCTGCCTCCTGGTGGCCCT
CGCCCTGGACGTCGTGAGAGTGGACTGTGGCCAGGCTCCCCTGGACCCTGTCTACCTGCC
GGCAGCCCTGGAGCTCCTAGACGCCCCTGAACACTTCCGTGTGCAGCAGGTGGGCCACTA
CCCACCTGCCAACTCCTCTCTGAGCTCCCGATCTGAGACCTTTCTGCTCCTACAGCCCTG
GCCCAAGGCCCAGCCACTTCTTCGGGCCTTCTACCCAA

Sequence 22

TABLE 1

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CGCGTCCGCCCGGTGCCTCCGCCCATGGAACGCGCGGAGTGGCGCCGCCGCGGCTACGCG
CCGCTGCTCTATCTGCAGTCACACTGCGACGTGCCAGCGGACCGGGACCGCTACGTGCGC
GAGCTCATGCGCCACATCCCGGTAGACTCCTACGGGAAATGCCTGCAGAATCGGGAGCTG
CCTACCGCGCGGCTACAGGACACAGCCACGGCCACCACCGAGGATCCAGAGCTCTTGGCT
TTCTTGTCCCGCTATAAGTTCCACTTGGCCCTGGAAAATGCCATCTGTAACGACTACATG
ACAGAAAAACTGTGGCGTCCCATGCACCTGGGCCGCTGTGCCCGTGTACCGCGGTTCTCC
CTCTGTGAGGGACTGGATGCCGAACAATCACTCCGTCATCCTGATTGATGATTTTGAGTC
TCCTCAGAAGCTGGCAGAGTTTATTGACTTTCTGGACAAGAATGATGAGGAGTATATGAA
ATACCTGGCATACAAGCAACCT

Sequence 23

CGCGTCCGGCTGGGCGAATNAGGGATTCCGGTTCACAATGGATGCTGATAAAGAGAAAGA
TTTGCAGAAATTTCTTAAAAATGTGGATGAAATCTCCAATTTAATTCAGGAGATGAATTC
TGATGACCCAGTTGTGCAACAGAAAGCTGTCCTGGAGACAGAAAAGAGACTACTGCTTAT
GGAGGAAGACCAGGAGGAGGATGAATGCAGGACCACCTTGAACAAGACTATGATCAGTCC
TCCACAAACTGCTCTGAAGAGTGCAGAAGAAATAAACTCAGAGGCCTTCTTGGCATCTGT
GGAGAAGGATGCAAAGGAACGAGCCAAGAGAAGAAGGGAAAACAAAGTCTTGGCGGATGC
CCTAAAAGAAAAAGGGAATGAAGCATTTGCTGAAGGCAATTATGAAACAGCTATCCTGCG
CTACAGTGAGGGGTTTGGAGAAGCTGAAGGACATGAAAGTGCTGTACACCAACCGAGCCC
AGGCTTATATGAAACTTGAGGA

Sequence 24

GGGAGTCGACCNCGCGTCCGCTCCCTCTGAGTTGCGCTGGGCTTGGCTGCTGCACCATGA
CCCTGGAGGCGATCCGCTACTCGCGGGGCTCCCTGCAGATCCTAGACCAGCTGCTGCTGC
CCAAGCAGAGCCGCTACGAGGCGGTGGGCTCGGTGCACCAGGCCTGGGAGGCCATCCGCG
CCATGAAGGTGCGGGGCGCCCCGGCCATAGCCCTGGTGGGCTGTCTCAGCCTCGCCGTGG
AGCTGCAGGCGGGCGCCGGGGGACCGGGACTCGCCGCGCTCGTGGCCTTCGTGCGCGACA
AGCTGAGCTTCCTCGTCACCGCCCGGCCCACCGCTGTCAACATGGCCCGCGCCGCCCGCG
ACCTGGCTTGATGTTGCAGCCCGGGAGGCCGAACGGGAGGGGCGCTACGGAAGAGGCCGG
TCCGGGAGAGAGTGATCTGCTGCACCGAGGACATGCTGGAGAAAGACCTCAGAGACAACC
GAAGCATTG

Sequence 25

GGAGTCGACCNCGCGTCCGGGATAACGAAGCTGCTACCATGATGATGGCTGATCTCATGT
TCAGAAAACAAGACTATGAACAAGCAGTGTTTCATTTACAGCAGCTTTTAGAACGTAAGC
CAGACTCCTCGAGTTCAGGGATCACACCATATTCCCAATATCAGACAAAATGCCACACAC
ATGGATGTGGCAACATAGATGTTTATTGGTTGAATGGATCAGTGAATGACTGTAAAACAC
CAAGTCAATTAAAAACACAGCAGGAGAATCGCTTGAACCTGGGAGGTGGAGGTTGCCGTG
AGCCAAGATCACACCACTGCACTCCAGCCTCGGTGACAGAGTGAGACTTGGTCTCAAAAA
CAACCACAAAATTTTAAATAATTATATGACATTATCTCGTTTGATTGATCTCCTAAGAAG
ATGTGGAAAACTCGA

Sequence 26

ACCGTCCGGGGCCATCCAGGAGAGCCTCCTACCAGCACAGAAGGCCTGTGCCCCAGCGCC
CTGAGCGAGACAAGCCGTTTTGATAATGACTTGCAGCTAGCCATGGAGCTCTCTGCCAAA
GAGCTGGAGGAATGGGAGCTCCGGCTCCAGGAGGAAGAGGCTGAGCTCCAGCAAGTCTTA
CAGCTGTCACTCACTGACAAATAGACCTTTCAGCCTGTGAGCCTCTGCACAAAGCAGAGG
CTGTGGGCTGTCACAGATGCTGTGTCAACCAGGGCCCTAGGGCTAAGGGCCTGCACCTTG
CGTGCATGCAGCAGGCAACAACTGCCCCTTCTTTATGCAGAGGTGCAGAACCAGGGACTC
CTGGGCCCATCCAGGCTGCTTCCTTGGGGTGG

Sequence 27

NCCNCGCGTCCGGCCGGCGATGCCGCGCCCCCGGGCCGGGCTGTAGCGGGGCCGCGGCTG
GACGTGTGCGCCGGGCAGGCGGGACATGGAGGTGGTGGACGAGACGGAGGCGCTGCAGCG
CTTCTTCGAAGGCCACGACATCAACGGTGCCCTGGAGCCCTCCAACATAGACACCAGCAT
CCTGGAGGAGTACATCAGCAAGGAGGATGCCTCCGACCTCACACTGCCGGACTCTCCCCC

TABLE 1

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AGACTCGGGCTCCGAGGCCTACTCCCCCCAGCAGGTGAATGAGCCCCACCTNCTGCGCAC
GATAACCCCTGAGACACTGTGCCACGTGGGGAGTGCCCTTC

Sequence 28

CGCGTCCGCNAGGGAGGGCCGAGCGAGGCGCAGGCAACCGGGCAGCAGGCATGATGCCCT
CGCCTAGTGACTCCAGCCGCTCGCTGACCAGCCGGCCCAGCACCAGGGGCCTTACCCACC
TNCGCCTNCACCGACCCTGGCTGCAGGCCCTGCTTACGCTGGGGCTGGTCCAAGTGCTCC
TGGGCATACTGGTGGTCACCTTCAGCATGGTGGCCTCTTCCGTCACCACCACCGAGAGCA
TNAAGAGGTCCTGCCCGTCTTGGG

Sequence 29

ACGCGTCCGATTTTAGTNGCAAGGAGTCCATGTGTTCAACTCCAGCATTTCCTGTGTCTC
CAGAGACACCGTATGTGAAAACAGCGCTGCGCCATCCTCCGTTCAGCCCACCTGAGCCCC
CGCTGAGCAGCCCAGCCAGTCAGCACAAAGGAGGACGTGAACCACGAAGCTGCCCTGAGA
CGCTCACTCACGCTGTGGGGATGTCAGAGAGCCCCATCGGACCCAAATCCACGATGCTCC
GGGCTGATGCGTCCTCGACGCCCTCCTTTCAGCAGGCTTTTGCTTCTTCCTGCACCATTT
CCAGCAACGGCCCTGGGCAGAGGAGAGAGAGCTCCTTCTTCTGCAGAACGCCAGTGGGTG
GAGAGCAGNCCCAAGCCCATGGGTTTCCCTGCTGG

Sequence 30

CCGGTTNCTTGTNNGTTNATTGATTTAAAATAGAATATCAATTGAATTTAGAAAATTCTC
AAAAGCCAGTTTAATGCTGTTCATCTTTTAAGGCCAAAAAAAGTTTAATCCAGAGGCAGT
CTTTCATTCTGCACTAATTTATAATTTAGATCAAAGAACTAATTATATATCTCAAATTTA
ATAATAAAAAGGTATAGTAATGAGAATTAAATTTATGGTAAATTATATAACTCAGAATGT
TAAAGTAACTTGGAAATTCTTAATCTAAGTTAAGTATCTTTTTATTTCTTACTTGTCCTG
TTTGATTTATTAAGGGAAAAGAAAATTTTAAGGAGTTGCCAGTATTTCTTTGTCTATTGA
AAGTGGAATGTTTATTCACCCTTATTTATATACTTAAAAGACATTGTATTGGCCTGGTCT
CGAACTCCTGACCTCAAAGGTGGATCCACCCACCTCGGCTTCCCAAAGTGCTGGGATTA

Sequence 31

GCCGGTGATTTTGAACAATTCTGAAATATTTCAGGTAAGATTAATAACATCCAATTACAA
ATATATGTTTCAATATTTTATACGTATGTCTACTTTGAAAGTTAAACCAATAGTATAGAA
AGCCTAAGAATGAACACTGATTGGACATACTCACAGAAATTAAGGGAAAAACACATATTG
TAAAATTCCTGTCAATGTTTGAGTAGAATACAGAAGTACATAGCAGTCTTCAATTTTTAA
ACACAATTATGGGCTTATAACTGGACGTGACATGCATCATTTATTAGAACAATATTATTT
ATTTATACTAAGTAAGGATATAAGATCACAGAAGCTTAGTGTTATAACGGAGACTTCACA
GACATTCATAACTAATGTTTTCTAAGGCAAATAAGGGGCATAAACCAGAACTCATGGGTC
AGTGCCAGAGGTAAGTATAAAAAGGTTATGTATGAAAGACATTTATTTATAGGAGAATTT
CTGAGGGATTCTATGCCTTTTCAACTTA

Sequence 32

NCGTCCGGGAAACTGGTTCNGATGGTGTCTGCCCAGGAGCGCCTGACACGCACCTTCACA
CGCAGCAGCCACACCTACACCCGCACGGAGCGCACGGAGATCAGCAAGACGCGGGGCGGG
GAGACAAAGCGCGAGGTGCGGGTGGAGGAGTCCACCCAGGTCGGCGGGGACCCCTTCCCT
GCTGTGTTTGGGGACTTCCTGGGCCGGGAGCGCCTGGGATCCTTCGGCAGCATCACCCGG
CAGCAGGAGGGTGAGGCCAGCTCTCAGGACATGACTGCACAGGTGACCAGCCCATCGGGC
AAGGTGGAAGCCGCAGAGATCGTNGAGGGCGAGGACAGCGCCTACAGCGTGCGCTTTGTG
CCCCAGGAAATGGGGCCCCATACGGTCGCTGTCAAGTACCGTGGCCNGCACGTGCCCGGC
AGCCCCTTTCAGTTTACTGTGGGGCCGCTNGGTNGAAAGGTGGTGCCCACAAGGTGCGGG
CCCGGAGGCAC

Sequence 33

CCGCGTCCGCAGGAAATTGTTAAAAATAATTTGGGGGTGTTTATTGGGGAAGGAAACAGG
GCCTTGACAGTGGAGGACTTGGAAGACATGTAATTTAAGATATAGAGTATGATTGTTGGA
AAATAAGCATGGAGATCCAGAAGGAATCTTAAGAGTTTTTCTATGCAAGTGAAGATGGAA
GAAAATATGTATTTTACAAAAGATAAATTACAAGTACCTTATTTGCTTTGCAAAATAACT
TATCATGTTCTTCCACTATTTTTATTATATTTTAATTTTAATGAAACTTATATAACATTT

TABLE 1

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ACACTAAATTTTAAATACATGGCTCAAGACAAAAAAATGGGGAAAATATTTTTTAAAAAA
TCACCCCAAATCCTGGTACTCAGACATAACCACTATTCAAACTTGGCAGAGTAATATTTT
TCCTGTCTGCATGTGTGCCACNATGTGTGCATGCATACCACAAAGTAGATGTTTTACTAT
ATCTCCTGGGTTATTATCTGCTTTTTTCCC

Sequence 34

ACGCGTCCGGGACAAGAGAAACATAAGCNGGAAAAAAGGAGGAGGAATAAACACACGCCT
GTCCATAATAAAACTCGCTCTTGAAGACTCAGCGGCAGCCCTGCACCGGAGACTGACGAC
TTGCGCGGCTGTGACCTCCGCCCTGCAGCGGACCCTCGACTGCCCTGCACTGCGGCTCTG
GAGGCCCCGACTCAGTGCATGGGAAAGAAATCCTCACTATCAGAAAACAGAGGGGCAATC
TGCTGCTCTCCCTTTCCGGCCAAACACGTCACCCATCAACCGGATACCTACCAAGAGGCT
TTCAGAGGAGGCGCCCAAGGTCTCCCAGGCCCGCCCCTCCCCAATCACGCTCCGCTCAGC
CCCCTCAACTTTTGGCCTCCGGGAAGTTCGCAGCGTNTCTCACGCTTGGCAGGAAGTTCC
CGCCAAGGCTTTCGGAAAATCCTTTAAAAAGCAACGCTTGCGCTGGGCGGGGCTTTGGTG

Sequence 35

CCCCGCGTCCGGTAGATTGCTTGTGGCTGGCAGTGAAGATGGTGGAGTTCAACTTTTTGA
TATAAGTGGGAGGGCTCCCCTCAGGCAGTTTGAAGGCCATACAAAGTAAGAGACAGTTGG
TTTCTGTGTGTTCTGGTTTTATTTTGTTGTAAGCTCTTTTTTTCTCTGGACTTTGGTTAA
AAAGATAGAGATCAGTTTTATGGAGATTATTTGCCTATAGGTACTATATTTCCTGATTGT
TCTAAGAGTGCTTAACTTGGGTTCCGTGGTCCAGTTTCATGGGGCTTATGAATTCCCTAG
AATTGTATGTGATATTTTAGGAAATACACGTTTATCTAGGGAGCTACTCTGTAGCTTTTG
GTTAACTTTAGTGGGGTCTGTGGCCCAGCTGAGATTATGAATTACTGACCTGAAGACAAC
CTTACAGCTGGTAATGACAGCTCTATAGGCCTGTACTGTCTTAGAGGCTCTTATGTTGAA
GTCAAGTANGAAGGTGGATTTTCTTCTTGAATTATAGTGTTTTGCCCCTTAATAA

Sequence 36

CNCGCGTCCGCGGACGCGTGGGGGCGAGGGCCGCTGGGGCCGCGAAGTGGGGCGGCCGGG
TGGGCTACGAGCCGGGTCTGGGCTGAGGGGCGCGGCTTCGCGGTGGACCCCAGCCCGGCA
ACGGGAAGGCGAGCTCTCCTCCACCGTCCAAAGTAAACTTTGCCGCTCCTTCCGCGGCGC
TCCCGAGTCCTCGCCGCCGCCGGGCCGCCGCAGTCCGCGAAGAGCCGTCCTGCGTCAGGG
CCTCCTTCCCTGCCCCGGCGCGGGGCCACTGCGCCATGGACGCCACAGCACTGGAGCGGG
ACGCTGTGCAGTTCGCCCGTCTGGCGGTTCAGCGCGACCACGAAGGCCGCTACTCCGAGG
CGGTGTTTTATTACAAGGAAGCTGCACAAGCCTTAATTTATGCTGAGATGGCAGGATCAA
GCCTAGAAAATATTCAAGAAAAA

Sequence 37

GCGTCCGCGGACGCGTGGGCCGCCGCCGCCGCCGCCGCCGCGATGTGACCTTCAGGGCCG
CCAGGACGGGATGACCNGGAGCCTCCGCCCCGCGGNGCCCGNGGCTCGCCTCGGCCTCCC
GGGCGCTCTGACCGCGCGTTACCCGGCCCGCCATGGCCCCCTTCTCTCTNGCCCGGGCNC
ACGCTCGACCCTGCGCNCGTATCGCCAGCAAGTCTGCTGCCTGCATGCTGCNTGGCTCGC
GAGNNGTTGGCGCGCNTTGCNCTGNNGCCTGTTTGCACGAGCNGCCGCCGAGGCCCACTG
CANGNTTANCTCGACGGTCTCCNAAGNCANACCGCNCCGCCGNCCCTTTCCAAGGNTCNT
TTCNCGAGGGGANGGGCNCAAANGGCCAGGGGNCCCCACNCNTGGGGAAGAAGGGNGGAG
TTNGNCNGATGNGNATGAGNAANCCTTGTAGNCAAGANCCCGTCCCNAAGNGGNAGNGNC
AGCCCNGGGGAAGGGTTGGTTTTCNNANGNTAAACCGNAACCCCCCCGGAAGTNAACCGG
NGATTTTAATTTATTTTTACCCCNCANANGNAAATAACCTTTNAANAACCATGGGNCATT
NNAAANCAAAAGNTAAATTNGGGGGNAACTTAACCGNTAAACCANCCCAAAA

Sequence 38

CNCGCGTCCGGCGGGTCCCGCCGGCGGGTACCTGGGCACTGCGCCCCATCTGGACTGAAA
TGGGGACACCCCTTCGGGGGTCCCAGGCTCCTGGCCGTATTGTTCTCCTTCTCCTCGTGA
TAACTCCGCAGTGGAGGTGGATTCCGTCCAAGACGCCCAACGTGGCTCCGCGTAGCAATC
AGCGCTGCAATCCTGGCGGTTACCTCAGCGGCGGCGTCTCTCTCTGCGCCTCACACTCGC
AGCCCGCGGCCCTCCCCAACTTAGGGCGTTTACAAAAGAAACTACTCCAGACGCGCTGCA

TABLE 1

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AAGGGAGGCGCATGTGCCCGAAAGCTGGCGATCAGACGGGGGGGGGCATTCTGCATGTGT
GATGTTTCTGGGGGCGGTGGGGAGTGTGTGTCGGGGTCGGGGGGGCGGG
Sequence 39
NTGGTCTTTCTTCCTAAGAAGGAGATGGAGCCAATTTCTCACAGCTCGTGCCTCAGTACT
GAGGGTATGGAGGAAAAGGCAGTCAGTCAGTGTCTAAAAATGACGCACGCAAGAGACGCT
CGGGGAAGATGTAGCTGGACCTCTGAGATTTACTTTTCTCAAGGTGGACAAGCTGTAGCC
ATCGGGCAATTTAAAGATCGAATTACAGGGTCCAACGATCCAGGTAATGCATCTATCACT
ATCTCGCATATGCAGCCAGCAGACAGTGGAATTTACATCTGCGATGTTAACAACCCCCCA
GACTTTCTCGGCCAAAACCAAGGCATCCTCAACGTCAGTGTGTTAGTGAAACCTTCTAAG
CCCCTTTGTAGCGTTCAAGGAAGACCAGAAACTGGCCACACTATTTCCCTTTCCTGTCTC
TCTGCGCTTGGAACACCTTCCCTGTGTACTACTGGCATAAACTTGAGGGAAGAGACATCG
TGCCAGTGNAAGAAAACTTCAACCCAACCACCGGGAT
Sequence 40
CACCGNNCGCGCTCCTTCTGCCGCCAGGGCGAGGCTGGCACCCGGCCAGCGCGGGCAGGG
CCACGGGTGCCCGGCTGTTTCCCGGTTGTGGAAGGCGCTCAAGGTGCGCGGCCCGGGGCG
CGCTACTGGGGGCGCCCTCCGCGGTGGGCAAGCGCGCCAGGGATCGGCCTGGGCANGCCG
CGGGGCGCGCGAANGCTGCGCTTTCCCTACGCCCCCCCTCGCTTCCTCCGGCACGGCGGC
AACGGAGATTTCCTCTCGGGGAAACTACGCGGATCCTTTTCGGGGATCCTCGCCCCGCCC
CAATTTCTNCGCCCCCTCCCCTTTGCTGGGGCGCCTGGGCTGGCCCGCGCAGGGGA
Sequence 41
CNCGTCCGGTTCCTAACACAGACGAACTCAGCTTCCTTTGCCATGCCTCTGACTCGAGCC
AGCCTTTCTTTTTATCCTCCGTTTTTCTCAGATTCCCTCCACACAGTCTTTTCCCAGGTC
TAGATCGCTTCCCTCGCCCCAATCTTTCCTTGAACCCCTTTTCCAGTGTCCCAAAGCTGT
CCACTCTTACGCCTCTTCCAGAAACACAGGCTACCTCCCCCCAATTCCCCAGTGCCACTC
TGGATTGTAATATCCCACTCAGGAGCTTCTTTCTTGTAATTTCCCTCCCCCCACCCCCCA
CCCTCCCCGGGTCGTCTGTTTTCTTCTATGAAGCAAATATTACTCATCAAATATAGGAAC
AAAGGCCTAAGTCCTTTCTGNGCTTTATTTCTTNGGGTGACTGGATCTTAGATCCTATCA
TTTAAGTAGATGATGGTT
Sequence 42
GGTGTCGACCNCGCGTCCGCGCTTCTCNCCTCGGCCCGTGGAGCCGGGGCGTCCGGGCGT
AGCCCTCGCTCGCCTGGGTCAGGGGGTGCGCGTCGGGGGAGGCAGAAGCCATGGATCCCG
GGCAGCAGCCGCCGCCTCAACCGGCCCCCCAGGGCCAAGGGCAGGCCGCCTTCGCAGCCC
CCGCAGGGGCAGGGCCCGCCGTCCGGACCCGGGCAACCGGCACCCGCGGCGACCCAGGCG
GCGCCGCAGGCACCCCCCGCCGGGCATCAGATCGTGCACGTCCGCGGGGACTCGGAGACC
GACCTGGAGGCGCTCTTCAACCGCCGTCATGAACCCCAAGACGGCCAACGTGCCCCAGAC
CGTGCCCATGAGGCTCCGGAAGCTGCCCGACTCCTTCTTCAAGCCGCCGGAGCCCAAATC
CCACTCCCGACAGGCCAGTACTGATGCAGGCACTGNAGGAGCCCTGACTCACAAGCATGT
TCGAGGCTCATTCCTCTNCAGCTTTCTTGCAGTTGGGAAGC
Sequence 43
GTCGACCACGCGTCCGGGAGCTGCGGCGCCCTCCCTTATCGCCTTGGCAACGACCCAGCC
GCGCCGCGAGGAGAACCGGGAATGGAGGTCGTGGCGTGAGGGGCGCCGAGCGAGGGGAGG
CGCGGGCCACGGGAGTTCCGGGAGTTCCGGCGTTGCCCGGCAGTCCGCAGTCCTCGGCGG
GAAGGCTGTCCCGGCGCCTCAGGCAGCTCTGCGTGGGCCGGGGTGACTTCCTCGCGATCC
CCTGCGCGAGGTGAAGGGCAGGGACCTTTGCCGCGCCTTCCACGCGCCGTGCCCCACCGG
CGAAGTGGGCTCCATCTTCCTTCAAGACTTGTCGCTTCGCGGACAGGGCGCCCGTGGGTT
CTTCCCGGCCCTTCCGTACCGTCCTCTTTCCAAGCGGGCTTCCGGAAAGCGGGTTCCTTG
TCTTTCGGACGCATTTTCACCCCGCGCCGGGGAGGAGCTTNCCGGGNAAGGGTTCCACGG
CGGCCGAGGGTTTTCC
Sequence 44
CGTCCGCGAGACTCCCGCGCCCACCACCCCCGGCGGAGCTGCTGCTGAGCCACTCAATCT
GAGCCCTGGCTACTAATAAAGTTCGTTTAAAAATCATAATCATTCTTAAGAGAGCGAAAG

TABLE 1

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AGGGTGCGAACTAGCCGCTCGGCCCCGCANGGAGAGCTGGCGCGTCNGGAGGAGACAGCN
GCGGCAGCGGTTGCGCCGCGACCAGGAGGAGCCGGTGGCGCCGGGCGGCGGGTCCGCGGC
CGGTGGGGGACNGTGAGTAGCGGCTCGCGCTGCGGTGCAGCGGCGCTGCACTCACTCGCC
CTCTCCAGGGGCTGGGGGTTCGTCCGGCTCCACTGGGGAAGACTCAGCTTCTCCCCGGGG
TCCCGGGTTGTGCCTTACTCTCCGGAGTGGGCAGGGGTATCGAGGGCAGGGGCCTCCCGG
CCCGGCTCCCCCATCCCCCGGTTCGGACCGACGAGCCGCCGGCTTCTTCCCTTCCCTGAG
CACCGATCCCAAGTTCCA

Sequence 45

TCACCACGCGTCCGGGCGTCCGGGTACCCGAGGGCTCTCCCGCGTTGCTGGCACCGCTGG
CGCCGCGGTCTCGTAGCGCATGGGCCTCCTCCGAGGCGGGCTCCCATGCGCTCGGGCCAT
GGCGCGCCTGGGCGCTGTGCGCTCCCACTACTGCGCCCTGCTGCTGGCCGCGGCGCTGGC
CGTCTGCGCCTTCTACTACCTCGGCTCAGGCCGGGAGACCTTCTCCAGCGCCACCAAGAG
GCTGAAGGAGGCCCGCGCCGGGGCTCCCGCCGCGCCCTCGCCGCCCGCGCTGGAGCTAGC
GCGGGGCTCCGTGGCGCCAGCCCCCGGCGCGAAGGCCAAGAGCTTGGAGGGCGGCGGTGC
CGGGCCGGTGGACTACCACCTGCTGATGATGTTCACCAAGGCGGAGCACAATGCCGCGCT
GCAGGCCAAGGCCCGCGTCGCGCTTGCGCTCA

Sequence 46

CCACGCGTCCGTGTCGGGCCGGCGCTCCCTTCTCTGCCNGGTGGCGAGTACACCTGCTCA
CGTAGGCGTCATGAGGTCTCCGGTTCGAGACCTGGCCCGGAACGATGGCGAGGAGAGCAC
GGACCGCACGCCTCTTCTACCGGGCGCCCCACGGGCCGAAGCCGCTCCAGTGTGCTGCTC
TGCTCGTTACAACTTAGCAATTTTGGCCTTTTTTGGTTTCTTCATTGTGTATGCATTACG
TGTGAATCTGAGTGTTGCGTTAGTGGATATGGTAGATTCAAATACAACTTTAGAAGATAA
TAGAACTTCCAAGGCGTGTCCAGAGCATTCTGCTCCCATAAAAGTTCATCATAATCAAAC
GGGTAAGAAGTACCAATGGGATGCAGAAACTCAAGGATGGATTCTCGGTTCCTTTTTTTA
TGGCTACATCATCACACAGATTCCTGGAGGATATGTTGCCAGCAAAATAGGGGGGAAAAT
GCTGCTAGGATTTTGGGA

Sequence 47

CGCGTCCGCGGACGCGTGGGCGGGGCCGCGGAGCCGGGCCGGGGCATGCGCCGTCTCCGN
CTCGGGGCCGNCGGGGGCGCCCTGCTGAGCGCTACCCACGTGCGTCCGCGCCACCTCGCG
GGCGACCCCGCGGCCAAGGCCCCCGGCGGAGCGGNTCCCGGGCGCCCCGAACTAGCCCCC
AACTTTGGGCGAAGTTTGCCTGCGCCTCTCCCCGCCCCCACGCGGCGCGCCGGGGCCGCG
GACGGNAGCGGCCCCCGGGGATGCGCCTTCCCGGGGTACCCCTGGCGCGCCCTGCGCTGC
TGCTGNTGCTGCCGNTGCTCGCGCCGCTGATGGGAACGGGTGCGCCGGCCGAGCTGCGGG
TCCGNGTGCGGCTGCCGGACGGCCAGGTGACCGANGAGAGCCTGCAGGCGGACAGCGACG
CGGACAGCATCAAGNCTCGAGCTGCGCAAGCCNGACGGCACCCTCNTNTTCTTNACCGCC
GACTTTAAGA

Sequence 48

GCGTCCGCTGCATTGCGCCCACCGACTCCACTATGTTGAAGAAATTCGACAAGAAGGATG
AGGAGTCAGGTGGAGGCTCCAACCCATTCCAGCACCTTGAGAAGAGTGCGGTACTCCAGG
AGGCCCGTGTATTTAATGAAACTCCCATCAACCCTCGGAAATGTGCCCACATCCTCACCA
AGATTCTTTATCTCATAAACCAGGGGGAGCACCTGGGGACCACGGAAGCGACCGAGGCCT
TCTTTGCCATGACCAAGCTCTTTCAGTCCAATGATCCCACACTCCGTCGGATGTGCTACT
TGACCATCAAGGAGATGTCTTGCATTGCAGAGGATGTCATCATTGTCACCAGCAGCCTAA
CAAAAGACATGACTGGGAAAGAAGACAACTACCGGGGCCCGG

Sequence 49

ACGCGTCCGCAGAANGCTCTCAGATGGGACAGTCTTTTACTTTCATTCTCACCTCTGTAA
ATAGCAGGACAGGTTGGGGTGGGCCTGACTTCTATTCTGCTTTCAGGGGGTACTTACTGG
AAAATCAACTTAGGAAGTGAATTTGAGGGTTGGTGTAATTTTAAGCCCAGCCTCTGATCC
TTGGTTGCACAAAGCCTAATTTCCAAATATTTCTAACAGATTCAAGACTGTATTGGCAAA
GAGGTAGAGAGCTATGATAATGACATAAATTACATAAAAATCCAGTTGAATGAATAAGAA
GGAATTTGGGCGTATAACCCATGGAACACCAATGGTGCTAAGAATTTGCCAAACCCTCAG

TABLE 1
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CTTCGTATAAGTCCCAAAGAACTCAGGCTTATAGCACTAAGCAAATTACCAGTGGGAGGA
GGAGGACCTGCCACGGAGCTGGATAATTACATTTAAATATTTTTGCCANTCTGTTGGAGA
C

Sequence 50

NCGCGTCCGGCAGGCGGGTCGTAGAGAGCGTTCANGCCGTCTGTATATCTCCCCAGATAC
CTGAAACTGACCACCTGAGTACGTTTTCCCATTGCTGAGCTGTTTCCCTGATATCTGGCC
ATGCAACGGAGATCAAGAGGGATAAATACTGGACTTATTCTACTCCTTTCTCAAATCTTC
CATGTTGGGATCAACAATATTCCACCTGTCACCCTAGCAACTTTGGCCCTNAACATCTGG
TTCTTNTTGAACCCTCANAAGCCACTGTATAGCTCCTGCCTTAGTGTGGAGAAGTGTTAC
CAGCAAAAAGACTGGCAGCGTTTACTGCTCTCTCCCCTTCACCATGCTGATGATTGGCAT
TTGTATTTCAATATGGCATCCATGCTCTGGAAAGGAATAAATCTAGAAAGAAGACTGGGG
AAGTAGAT

Sequence 51

GCGTCCGGAAGGTCCTTGAGCCATCTGGATGGCGGGCAGTCTGGCACACTAATGTGTTCA
AGGTGCTGGTTGAGATCACAGATGTGGACTTTGCAGCCTTGAAGGCAGTGGTGAGGCTTG
CTGAACCATACCTCTGTGACTCTCAAGTGAGCACTTTTACCATGGAGTGCATGAAGGAGC
TCCTTGATCTGAAGGAGCATCGGTTGCCCCTGCAGGAGCTGTGGGTGGTGTTTGATGATT
CAGGA

Sequence 52

GTCGACCNCGCGTCCGGAAAAAAAAAATGACCCAGAGATATTAACAACTTGACCTGGTTA
TACAGTTAGATATTTGCACAGTCTGGACTCAAACTGGAGGCTTCTGACTCCTCATCTAGG
CTCCTCTCACTCTGCCATTGCATGGGTTTTCTCATATACCTTCTCTCATAAGGTTTTCAC
AAATTTGTCACCGTCAAATAATTATCAAAATTATTCACACTATTATAGATGAAAATAATG
TGCTTATAAAGATTAAGTAACTTTCCTGAGGGCGCAGGTATCTGGTTCACATAACAACTA
GCCTGGCTTAGAATAAACACATATTTCCTGGTTCTGAAGTTGGTGTCCTTCCTACCACTT
TCTGCTGTCTCCTAAAGATAAAGAATGTTATTGGCTCACTGAATTAATCCATTCTGTTCC
TGGCTGAAATAAAAATTGGTATATTCCTTACGTGAAGTGTCAACAGGAAGGGGGCTTTTA
CAACTTCCTTT

Sequence 53

GGAGTCNCCACGCGTCCGCGCGCTGGAGGAGTGGAGCAGCACCCGGCCGGCCCTGGGGGC
TGACAGTCGGCAAAGTTTGGCCCGAAGAGGAAGTGGTCTCAAACCCCGGCAGGTGGCGAC
CAGGCCAGACCAGGGGCGCTCGCTGCCTGCGGGCGGGCTGTAGGCGAGGGCGCGCCCCAG
TGCCGAGACCCGGGGCTTCAGGAGCCGGCCCCGGGAGAGAAGAGTGCGGCGGCGGACGGA
GAAAACAACTCCAAAGTTGGCGAAAGGCACCGCCCCTACTCCCGGGCTGCCGCCGCCTCC
CCGCCCCCAGCCCTGGCATCCAGAGTACGGGTCGAGCCCGGGCCATGGAGCCCCCCTGGG
GAGGCGGCACCAGGGAGCCTGGGCGCCCGGGGCTCCGCCGCGACCCCATCGGGTAGACCA
CAGAAGCTCCGGGACCCTTCCGGCACCTCTGGACAGCCCAGGATGCTGTTGGCCACCCTC
CTNCTCTTCTCTTGGAGGGCGCTCTGGCCCATCAGACCGGATTATTTTTTCAA

Sequence 54

CNCCCGTCCGGAATNCCCATAGTTAGCTGCTGTGCTTTCACAACTTCTTTCTCTGTAAAT
TCCTCGCTTGGCNCTGAGAAGGAAAAAAGATGTTCGTAAAGGGCTCAGCGAGGAATTTAC
AGAGAAAGAAGTTGTGAAACCACCATAGTTAGTTGCTGTGCTTTGAATTTCTTTTGCTCA
AATGGCCTCAGCGAAATCTTATTTGCCTATAGCATATCTACAAAAAATTTTCCTAGACCG
TCTTTTCTACAACTGGATGGTAAAGTTGATTGAAGTGTGCCTCATGTAGCTTTATGTTTG
GGGCATTTGAAGGGCTATGGCTGGACCAGAGTGTAATATAAATGCTTAATAGAGAGGGGA
AAAGAAGAGTGTAAGAACCATTATAGGGCTGGGCTCACGCCTGTAATCCCAGCATTTTGG
GAGGCTGAGGCAGGCGGATCACGAGGTCAGGAGTTCNAGACCAGCCTGACCAACATGGTG
AAACCCCATCTCTCTAAAAATACAAAAAT

Sequence 55

GTCGACCNCGCGTCCGCAGCCTTCGGCTGCGGAGGGGGCTCGGCGGCGGCCGGCGGAGAA
AGTTGCTCCGAGAAGAGGCTGGGTCGAGCTGGGCCGAGCCGGGCGCGCAGGGCGGGCGTC

TABLE 1
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GCGGGCGTCCCGGGCGGACGCGGCGCGGAGACTGCCGGCGCGTCCCGGGGGTTCCGATTT
GAAGACCTTGCTTCTCATCACCCACTGGATTATGCCCCAGGCTTTCCTACCCAATGATCC
TCTTGCAACACGCCGTGCTTCCTCCACCTAAGCAGCCCTCACCCTCGCCTCCTATGTCAG
TGGCCACCAGGTCTACAGGAACCTTGCAGCTTCCACCACAGAAGCCTTTTGGGCAGGAGG
CTTCCTTGCCTCTTGCAGGGGAAGAAGAGTTATCGAAGGGAGGGGAGCAAGGACTGTGCC
CTGGAGGAGCTATGTAAGCCCCTGTACTGCAAACTCTGCAATGTCACCTTGAACTCTGCA
CAGCAAGCCCAGGCTCATTATCANGGTAAAAATCATGGTAAGAAA

Sequence 56

ACCNCGCGTCCGGACCTGTTGGCGACATGGTGGCACCCGTGCTGGAGACTTCTCACGTGT
TTTGCTGCCCAAACCGGGTGCGGGGAGTCCTGAACTGGAGCTCTGGGCCCAGAGGACTTC
TGGCCTTTGGCACGTCCTGCTCCGTGGTGCTCTATGACCCCCTGAAAAGGGTTGTTGTTA
CCAACTTGAATGGTCACACCGCCCGAGTCAATTGCATACAGTGGATTTGTAAACAGGATG
GCTCCCCTTCTACTGAATTAGTTTCTGGAGGATCTGATAATCAAGTGATTCACTGGGAAA
TAGAGGATAATCAGCTTTTAAAAGCAGTGCATCTTCAAGGCCATGAAGGACCTGTTTATG
CGGTGCATGCTGTTTACCAGAGGAGGACATCAAGATCCTGCATTATGTACACTGATCGTT
TCTGCAGCTGCAGATTCTGCTGTTCGACTCTGGTCTAAAAAGGGTCCAGAAAGTAATGTG
CCTTCAAACTTTAAACTTTGGAA

Sequence 57

GTCGACCACGCGTCCGTCTCATTTGTGAAGAGGTCTGTCTTCCTGAGGAAGCAGGGGACC
CTCACCTGTGAACCAAGTGTGCCATGGGAGCTGCTCCATGTCCAGGTCCAGGTCTCCTGG
TCTGCAGGGAACGGCACAAGAGGGCTGGCCTAGGCCAGGAGGATGTGATCTGTCCTAGAA
GGGGGCTGACCTGCTTGCTGACCCCGCTTGCTGCTGCCTGGCTGACCTGACTCAGCCACG
GCTGTTCCGAGGGCCCTTCTGAGTACGAACTTCCAGTTGGAGGATCTGGGTGAAGACCCA
GCTGCTTGAGATAGCAGCCTCTGGCTAGGCCCTTGGCGTGGCCAAGCCAATCAGGCAGGT
TTAGAGCCTGGTGCCCCTAGACAGGTCCTGCAACCAAGAACAGGGGGTAGCCTTCAAAGG
CCAGCCCTGCCTTCCAACCACCGCTCCACAGCGAGGGAAACCAAGGCTCTTAGGGCAGGA
GGCTTGT

Sequence 58

CCNCGCGTCCGGGGAGCAGGGATCAACGGTGGTCCCCGTAAACCTGACAGTAAACCTGAC
AGAGGCTGCAGGAGTGCATTTCCACCCAGGGTGCACTCAGCGAGTGGAACTCCACACCCG
TTTCTTTGGAGTCAAGGCGCGACCTCTCAGGGAGGAGACTGCTCCTGGTTGCCCACTGCC
GGGTCATCCCAGCTTGCAGTGGAACCCTCCGCAGCCTGGCCTCTTCCAGGGTAGCCCCTC
ACTCCCCTCTCTCTTGTCCTAGGATAAGGCCGAGGAAGGCTGACGAGTTCCAGCTCTGGG
GATGCCCTATCAGCTGTGTCACCTTGAACAAATCATTTCTCCTCTTGGGTCTCTGTTTCC
TCCAGTGTGAAACGTGGTGAAGGCATGAGGGGCTATGGGAGCCCCAAGGCCTCTTTCAGA
GATCTCCTCTGGGTCCCATGTGACCCCGTGGCTATCCCCAAAGGCAAGAGGGTCCCCAGC
CCTGCACCAAGGCCCTGGG

Sequence 59

CCGAGGAAAGGAGTTGGTTCGCGCAGGTGCGGCGCCTGGGTCCCCATGGCGCTGTGGCGC
GGCTCCGCGTACGCGGGCTTCCTGGCGCTGGCCGTGGGCTGCGTCTTCCTGCTGGAGCCA
GAGCTGCCAGGCTCGGCGCTGCGCTCTCTCTGGAGCTCGCTGTGTCTGGGGCCCGCGCCT
GCGCCCCCGGGACCCGTCTCCCCCGAGGGCCGGTTGGCGGCAGCCTGGGACGCGCTTATC
GTGCGGCCAGTCCGGCGCTGGCGCCGCGTGGCAGTGGGGTGAGTGCCAACGGGGCCTGGG
TCTNTGAGCCTCCGAGGTCGGCCTTGGAGGTCGGGCGGAGCCGCGCAGAAACAGGGCTTC
TCAGAGGNCCCCGGGAGGCGCTTGCTGTCCGCGCTGGCCCC

Sequence 60

CGCGTCCGGTGGGAAGCCAGAAGATAAAACCAAATGGCTGGGCACGTCTTTAGGTTATTC
CTAGCTAAGAGTTAAGAGTTGTAAGCTCTCTCATTCTTTGTTCTTCAGCCTTAAACTATC
TTTCCTTCTATTAACTTTATTTGTCTCAGTTACAATGATAGAGGTAACTTCACATACTAA
AAGAAATTAGGTTACCATGTGAAACATTCTTCTTGGCTTGTGCTAATGTTATCAGATCCA
AACAGCATCTGAAAGAAAATTTTCCAAGTACGATGTTGTTCTCTTGTTTTCTGAAATACA

TABLE 1

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TATCATATGTTAAAGTGAGAGTTTTTATACATGTTGAAAGAAGTTGAATGACATAACAAA
TAGTTACTGAGGCCTCCATTTTCTTACTTCACAGTTAAAATTCCTGTTTCTCTTTGGGTA
TAGGAGGGTAGAAAGAAGTGGGAGAGTAATAGCATTTTAAAACACAGAATCAAAAATCAT
ATTAAAAGTAG

Sequence 61

CGTCCGGAGCATCGCGCACTGCGGCCGGGTCACCGACGTGGGCATCCGCTACGTGGCCAA
GTACTGCAGCAATGCTGCGCTACCTCAACGCGAGGGGCTGCGAGGGCATCACGGACCACG
GTGTGGAGTACCTCGCCAAGAACTGCACCAAACTCAAATCCCTGGATATCGGCAAATGCC
CTTTGGTATCCGACACGGGCCTGGAGTGCCTGGCCCTGAACTGCTTCAACCTCAAGCGGC
TCAGCCTCAAGTCCTGCGAGAGCATCACCGGCCAGGGCTTGCAGATCGTGGCCGCCAACT
GCTTTGACCTCCAGACGCTGAATGTCCAGGACTGCGAGGTCTCCGTGGAGGCCCTGCGCT
TTGTCAAACGCCACTGCAAGCGCTGCGTCATCGAGCACACCAACCCGGCTTTCTTCTGAA
GGGACAGAGTTCATCCGGCGTTGTATTCACACAAACCTGAACAAAGCAAATTTTTTTAAA
AGCAGCGTATGTAAAGCACCGACACCCACTCAAAACAAGCTCTTTCTTTCNGGAAGGGTA
TTAAGGAAT

Sequence 62

NCCACGCGTCCGCCAGNCTGTGAAGGATCCCAGACTGGCATATGCAGGAGGAAATGGGGC
GGGCGAGGAGTAAGGACCCCAAAAAGCAGGGGTAGGGAAGGGCCCTCCCAGCGCCCCACT
GTAATAGGGGCCTCATCAATGCCCCATGCTCACTGAATAAAGCACTGCCAGCGAAAGGTG
AAAAGAGGAACAAAGAACATTCTCCTGGACGCCACCCACAGAAAGCCACGTGCAGGCTTG
GCCCTCACCTTGGGGACCTTGGACACGGAGCTGGTTATGTCACATCTGGCTCTCAGAGCT
GGGGCAGCGTCTAGGAGGCCTGATGTAGAAAGCACTCAGCTAAGCCCTAGTTACCGGCAC
ACGGGCACCAGCGCCCCCTCTCAGCAAACTTNCACGTCTTATGAAATTAGCACTGGATTT
CCACTTCAATTGGA

Sequence 63

CCCACTGTAATAGGGGCCTCATCAATGCCCCATGCTCACTGAATAAAGCACTGCCAGCGA
AAGGTGAAAAGAGGAACAAAGAACATTNTCCTGGACGCCACCCACAGAAAGCCACNTGCA
GGCTTGGCCCTCACCTTGGGGACCTTGGACACGGAGCTGGTTATGTCACATCTGGCTCTC
AGAGCTGGGGCAGCTGTCTAGGAGGCCTGATGTAGAAAGCACTCAGCTAAGCCCTATTTA
CCGGCACACGGGCACCAGCGCCCCCTNTCAGCAAACTCCACGTNTTATGAAATTAGCACT
GGATTTCCACTTCAATTGGA

Sequence 64

NCGCGTCCGCTTCATCTTAGGATAAAGTCTAAATCTTTGTTTTTTGCTATTGTACTAAAC
TCATAAATCCTAGGTTATAAAGATAAAGCCTTAAACTTTATCTCATCATCCAGCCCAATT
TCCAGCCACAATGAAGTACTTAAAACTCTGTGTCTTTGTACTTGCTGTTCTCTTGGCCTC
CAATTCCTTTTCATCTTTTCCATTCGGTAAAGTTTGTTTATCCCACAGGCCCTATCTTGG
AAGCCTCCAGCAACTTCTCCAGACAGAGGTGTTAGCAGTGTAGGATCAGATTTCTCAACC
ACGTCACTCCCATGTCTGGGTAGATATCTCTGCCCAAGTGTTCTCATAGCACTTGAGCAG
TACTCTCTAAGCGCCCAGGATCTACCATGTTGCTTTTTTAAAATTTGATTAATTTATTTT
TTTATACTGCTCCTTGTGGAGCANGGAGTGTTCCCAGAGTAGCCCACCATGTTATATTGA
ATGGATCTGTGTGCATAATGCAGCTGTCCATCTACATCGTATATTTTTGTCTCCTCAAGG
GTAGGGA

Sequence 65

GTTTGTATTCTGGATACAGGGGATACTGGGGCTCGCTATGTGTGTGGAGCCATCCCTTCC
TTGCCCCAGCCCCACCTCCCTCTCAAACCCTCTCTGGCTCTTTCTGAGCTTCCTTTCCTG
CTCCCCAGCTTGCCCAGTGCTCAGTGCCCCACTTGGCTCTTTTGCTACTTCGGGTCAGGT
GGAGCCTCTTGGGAATGTGAAGTGCCTTACAGAAAGATTGCACTTCAAGAGGAGAGGCTG
CAGGGAGCCATCCTAAACCCAGAGGCCTGGAGCTTACCGTGTCACTTTACTTTTGTACAC
AGGGGTCTCCTTAGTGCCCTCGAGAAGGATTCTTGGCCCTGAGCTTCTACTCCTGAGGCC
ACCTCTGTGCAGCCCCAGCTCCCTCAACTCTAGGCTGTAGTCTCAGTGGGAAAGCCTGGC
TTGGGGGTCTCCTAGGAATGTCCACCTGAAGGCACACTTGATAGGGGCTTGCACAACTTA

TABLE 1
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TGTCTGCCAAGGCCACCTGAGGAACTCCTGGTGCCTATAAGTTCCACCTTCCCTTCCTTT
NCT
Sequence 66
CGTTCGGCAGCAGCAGCTGGCGGCCAACCGGCACAGCCTGGTGGAGAAGCTGGGGGAGCT
GGTGGCGGGTGCCCACGCACTGGGTGAGGGCCAGTTCCCCTTCCCCACTGCTCTGTCGGC
CACCCCCACGGAGGAGACGCCCACCCCACCCCCAGCCGNCACCAGCGACCCCCCGGCCGA
AGACATGCTGGTGGCCATCCGGCGTGGGGTCCGGCTCCGCAGGACCGTCACCAACGACAG
GTCGGCGCCCCGCATCTTATGATGGCGCCACCCTCCCCATCCTCTCAGGCCCCAGTGCGA
GCAGGTGGCCTGGTCTGTGAGCCGCAGGCACTCAGAGCAAAGGCCCAGCCAGGAGAGAGG
ACAGAGCCAGGGCAGAGGCCATGCCACTTTATGGAAAGACACCTCACTTGGATTCCAGCA
TTTAAACAGGAAGTGACTTCTTAGCAAGCCTGGCCAGGACGGAGCCTGCAGGCCTGGGCC
TGGTTCGGGGTCTGTTTTATGCTCTTCGGTCCCTTCTCTTCCTTCTCTGGGGCCCTGCCT
CTTCCTACCCATAAAGCACCAAAACCAGGGCCGCTGCCATGACAGAGGGGCCAGGCTGGC
CTTCCTTTCACATCCCGGCCTNTTCCAAGGCTGGTCCTGCCTNACTTCTTCTGGAATGTG
GGCCCCCTCTCCCTTGCTGACCCCTCTTCCTNTTGCTTNTNTTTGCTTTTCCANGCCCT
Sequence 67
CGCGTCCGGCAACCTAAAAATAGGATGCACCAATAGCATGTGGTTCCAAGTAAGTTGTGA
TTTTTATTTTGAGACAGTGTTCCACTGGAAGGGAGGGAAGGGCTTACATTCACAGACAGT
AAAGCAGGGCTGTGTAAGGAGCTACATTTACTTAACAGTCTCCTTTCCAGCTAGGTTTGT
TTTATTTATTTGCAAGTCAGCTAAGAATTAACCTTTTAAACCATCTAAAACAGGCAAGCA
ATATAAAGATTTCTACTAGTGCAAGGTAAGTGGTTTGAATATACAAGTGCCCTTTCCTGC
CACCCAGTCTCACTACCGTTTTAGTCCTGCAGCTGGGTAAAGCCACTATTGTGTGGAAAC
TCTCCCATGTGCCCTGTCTCTACCTCTGGACACACCAGCTCCTTCTTCCACCTATTCTAT
TCCTCAGTTAAGCCAAGTGATCAGAAGTAGTATTAAATGGGTAGATAATTTTA
Sequence 68
GCCACGCGTCCGGCGCCGGGTGCGCCAACTACGCAAAGACCAAGCGGGCTCCGCGCGGAC
CGGCCGCGGGGCTAGGGACCCGGCTTTGGCCTTCAGGCTCCCTAGCAGCGGGGAAAAGGA
ATTGCTGCCCGGAGTTTCTGCGGAGGTGGAGGGAGATCAGGAAACGGCTTCTTCCTCACT
TCGCCGCCTGGTGAGTGTCGGGGAGATTGGCAAACGCCTAGGAAAGGACTGGGGAAAATA
GCCCTGGGAAAGTGGAGAAGGTGATCAGGAGGCCGGTCCACTACGGCAGTTTATCTGTCT
GATCAGAGCCAGACGCGACGCGTCCACTTCGCAGTTCTTTCCAGGTGTGGGGACCGCAGG
ACAGACGGCCGATCCCGCCGCCTCCGTACCAGCACTCCCAGGGAGAGTCAGCCTCGCTCC
CCAACGTCGAGGGCGCTCTGGCCACGAAAAGTTCCTGTCACTGTGATTCTCAATTCCTGC
NTGGGTTTTTTT
Sequence 69
ACCCANACCTGGGAGGAATTAATGGAATGCTTGNCCCTGGGCAGCCTTAGAAACAGACCC
NAGCTTATCTAANGCTGCTCCGAGGCAGTGACCCAACTANGGCTCAGGAAGTCAAGAANA
TTGACCAAGCTTATAGTGATCACCTCTTGACCTTTGTGTCACAGTCNTTTTGCTTTTTAA
AACCCTTTTGTGAACCGNTTATGGCCTTTGATTCTGACAGGCATCNTAGTTGTGAAGGGG
AACANGGGCAGGATATAATGTTTCGTTTACCAAATACAANAAAATCNGANGTACCCAGNT
AGATCACAANATTTTTTGGGAGAAGGNCTNTTGGGTCTCTTCCAGGAGNTCACTTCANNN
TTGGNAACTTGACAGGGGCTTGGGGAATTTANTATTCCCCTTGGGCGCAGGGNCNCAAAN
GGGTGGCANTTTCCCTCCTTGGAGNTTTTTTTTTCAAGAANTCCTTGCNTNGGGGAAAGA
TGGTTACNANNATCCCGGAATTTCCAACCCCCTTCCCTATTTTTTTGGTTTAAGG
Sequence 70
CGCGTCCGGCACATTAAAAAAAAATACTTATTTTTTATTATGGAAAGGTCTTGGAACATT
CTGATAGTGAGCTTCCGGCATTCATTTGCTGTATCTGGCTTAGGAGATGCTAGGGTGGCA
AGAAGAGGCACAGGCTTAGATGCGCTGGGTGGAGAGTTGGCTTTAGTAATGATGGTTGAC
TCTAACGACTTGATTATCAGCTGTGCCTTTTTTCTTCCTGCCTTCTGAGGTGTGTTGCCT
GCATCCTAATTCACGTACTGAGTAGCAAGCTAAGCAGGTTGTAGCTGGAGATTGTAAGAA
ATCCTGAATGGAAACCAAAGAAAGACTGTCACATCACATGATGTGCCCTTTTCAATCCCA

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TGTCTCTTCCCAGTGGCATCCCAGTGCTGTCTCTGCCCCCTGCTGCTTCTGTAAAGATTT
TCTGACACAAGTAACTGCCTCATAGACCTTCCTTTTTATGAAATCCTGAGTTTTGGTTTG
GGTACGTCCTTTTTAGAT
Sequence 71
GCGCGGCTGTCGCGAGGGCGGGGGTCGGGGCTGCAGGCGGGGCAGGGCTGGGTGGGGGCG
CGCGACGCACCTGCCTGCTTCCTGCACGGGTGGNCCCCAAGCACTGCGGGGCCCCAGCCC
AAAGCGGACCTTGA
Sequence 72
CGCCCCGCGTCCGGGCGGCTGGTGGGCGACCGGGCGCATCCTCATTGCATGTGCGGCGGC
CCTACCTCGGCCCTGGCCTGACCCCGGCGGCCCTGCCCGCCCCTCCCTCCAGCATCATGG
CCAGCCCAAGAACCAGGAAGGTTCTTAAAGAAGTCAGGGTGCAGGATGAGAACAACGTTT
GTTTTGAGTGTGGCGCGTTCAATCCTCAGTGGGTCAGTGTGACCTACGGCATCTGGATCT
GCCTGGAGTGCTCGGGGAGACACCGCGGGCTTGGGGTTCACCTCAGCTTTGTGCGCTCTG
TTACTATGGACAAGTGGAAGGACATTGAGCTTGAGAAGATGAAAGCTGGTGGGAATGCTA
AGTTCCGAGAGTTCCTGGAGTCTCAGGAGGATTACCGATCCTTGCTGGTCCTTTGCAGGG
AGAAGTA
Sequence 73
GCCCCGCNTCCGGAAATGTCCGATTTTTTTTTAATTTAATGAAATTGTTAATGAGGAAAA
ATTTTTAATATAGGTCTTATCTACCACACATCCCCATAGATTTAAGGATTTTAATAGAAA
GTCATGATGTATGTATTTAAGCCACGTTAAAAGAAAAAATATAACTATGGACCGGTATTC
AGTGAATACAGTTTCATGGTTTTTAATTCTTTCAAAGCACATTAAAAATGGTGTGCTGAT
AAACCCCAAGTAAATTAACCCTTTTTCCGTATAAATCCATTTTTTGTTTTGAAGAGGGGA
AATTATATTTATTGNTGTTTACTGAATCCTGGTGTGAAAGCATATCAGATATGTATGAAC
TGCTACTGCTGTACTTCCGATTTACGGACATCATTTTATTGCTATTTGTAGACCGTGATA
ACATGAACATGAGTCCTATTTATGTGGGCCTTCAGTGGATGGGCAGTGCCACTCANGTCT
CTGGGGGTTTCCTCTCTTAATTTTAAAGTAA
Sequence 74
AGTCGCCNCGCGTCCGTGTGTTTCTCCTCGGTCCCCAACTCTACCTTCCCCAACCACAGT
TCCTGTCCCCAGATGTCCTGATGCCCACCATGGCAGGGGAGCCCAATAGACTCCCAGGAA
CTTCAAGGAGTGTCCAGCAGTTTCTGGCTATGTGTGACAGGGGTGAAACTTCCCAAGGGG
CCAAGTACACAGGAAGGACTTTGAACTACCAGAGCCTCCCCCATCGCTCCAGAACAGACA
ACTCCTGGGCACCCTGGTCAGAGACCAACCAGCATATTGGGACCAGATTCCTGACTACTC
CAGGGTGCAATCCTCAACTAACCTACACTGCCACACTACCAGAAAGAAGCAAGGGCCTTC
AGGTTCCTCACACTCAGTCCTGGAGTGGATCTTTTTCATTCACCCTNCCACCCTNCCATT
GNTCATCCTGTGTACCCACCATCTAAGCAGTCTTCATGTACCCCTGAGGTCAAGCTTGGA
A
Sequence 75
CCCGCGTCCGGGCTGGCATGGCTCTATATAAGATTGTTGCANAAANTCCCTACTACTTTT
GGTCTGTGATGAGCTTAATTATGCAATCTATATNGGCACAGGATGAAAACCTCTCAAAAA
CAATGTTTCTGCCCCTTGCTGAGAGAATGGTCGAAAAAATGGTGAAAGAGGACAAGATAG
AAGCTGAGGCTGAAGTTGAACTTTATTATATGATCCTGGAACGTTTGGGAAAGTACCAGG
AGGCCTTGGATGTCATCAGAGGGAAATTAGGAGAGAAGTTGACAAGTGAGATTCACAGTC
GGGAAAATAAATGCATGGCTATNTACAANAAGCTGAGCAGGTGGCCAGAGTGCAATGCCC
TTTNCCGGCGCCTCTTACT
Sequence 76
GNTGGAGGGAGCTTTGCTACTCTGCTCTTGGCATGACTCCAGGATTTTTTTCTGGAATCC
AACCTCTGTCCTCTTAGGAGAAGGAACCTGTCCTTGGTTCAGATGGCTGGGCATGAGGAG
GAAAATTTCCATTAGTGTAGAAAAGTGCTGGACAGAATCCGGTTTGGAAAATTACAAATC
CAGTTGGTCAAAATAGGCCATTTCCTATGTGTGACCTATTCGTGGTATGCCAACTGGACT
GCTTCCTAAACAGGACGAGGAAAGTGAGGAATATTTTTATATGAAAGCCTTAGCCTGTCT
GGCACCCATGAAAAAAACTATTTATGCACTCCTACTTTCACCCGTCTTTTTGCATTCTCT

TABLE 1

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ATTTGTAGCACAACAGAGTTGAATGCCACAAAACACCCCGTTTATAGTGAGCTGTTTTCA
GTGACCAATATCAGAAGGAGGCTTGCTTCTGGACTAGCCTACTAATTGCCAGCAGCCACC
ATTTTTCATG

Sequence 77

GGAGAGTGCCTTGCCGGACCCTCAGGACGGAGCTGCTGGGCTGCTACAGTGACCAGGACT
TTCTGGCCAAGCTGCACTGTGTGCGGCAGGCCTTCGAGGGGCTTCTGGAAGACAAGAGTA
ACCAGCTTTTCTTCGGGAAAGTGGGCCGACAGATGGTGACAGGCCTGATGACCAAGGCTG
AGAAGAGCCCCAAAGGCTTCCTGGAGAGCTACGAGGAGATGCTGAGCTATGCCCTGCGGC
CCGAGACCTGGGCCACAACACGGCTGGAGCTGGAGGGCCGAGGGGTGGTATGCATGAGCT
TCTTCGACATCGTGCTGGACTTCATCCTCATGGACGCCTTCGAGGACCTGGAGAACCCTC
CGGCCTCGGTGCTTGCCGTCCTGCGGAACCGCTGGCTGTCANACAGCTTCAAGGAGACGG
CCTTGGCCACTGCTTGCTGGTCGGTCCTGAAAG

Sequence 78

CACGCGTCCGGAGAACGTGATTTCTCAGCCGAATGAGTTTGAACATACCCCACAGGAAGA
TGACTTGGGGTTCAAGGAAGAAGATTTGGCTCCAGATCATGAAGTAGGAAATGCCTCTCT
CAAACCTGAAGGCATCCAGAACTGGGATGACTTATGGGTCCAGAGAGAGGGTCTAGGAAA
GCCTCAGCCTCGGGACAGAGGCCCCCGGCTCCTGGGTGAACCACGCTGGGGCCAGGCTAG
TAGTGATCGGGCCGCTGTGTGTGGTGAGTGTGGCAAAAGCTTCAGGCAGATGTCAGATCT
GGTGAAACACCAGCGGACCCACACAGGGGAGAAACCCTACAAGTGTGGGGTCTGTGGCAA
GGGCTTTGGGGATAGCTCTGC

Sequence 79

CGCGTCCGCAAGAAGATAACCCCAAACTCTTTTCTCAGAGAGTTTGTAGCCTAGTTTGGG
ATAGATAAGATCCACATATTTAGTCATATAAGACTACAGGAGAGTAGAATAGATGCACCA
GATGGTGTCGAATGAAAGTGGTACTTTGTAGACTATAAGTGCTGTAAATTCTAAAGGACA
GGTTACTTTTGCCTGGAGTGGTCAAGAAAGATTTTATTTAAAATAAGGATTTGACGGGCA
GACTTAGCAGTCAAAAGGGAGAAAGCGGGTAAAACAAATGTAAGCCATCATAAGAGTGCA
TGTGGTTTGGAAGCATCAGGGAAAAGACTAGCCAACCTGAAGTAAAAGGTTCGTGCAAAT
TGGGCAATCAATAGCATTAAGTTGGAAACAGCTTGGGGACAGACACATAAGAGGGCCAGA
GTGTGAATAATTTCATCTAATACTTTATAGCACTTGGACATTTACAGAGCACTTTTCTC

Sequence 80

TNCTCTCTGCCCCCCCACATTCGTCCTCTTGATTCTCTGCTTCTCTAGCTCAGCCGCTGA
CCTTCGTGCCTAGCCGCCACTAGTCCTTGACCAGCGTTCTGGCAACTCTTGCCTCCAAGT
TCTTCCAGCTCCAGGCTGAGCCGATGGGGATTCAGTTTTCTGACATCACAGCTNAGTTCT
TGATTTCTGCAGCAAAACCTTCAAGGCTTCCATCACCTCGGCTCTAGAGTCCATCATGCT
CCTCTCCTATGACCTGCTAGGGCTGATCAAACGTTCTGTCTCCTGCCGTGCCCTGCCCTG
CCCTGCCCTGAGCTTCGCTTAGCCTGTTGCAGGCTTTGTGTTTTCCTTCTTGTGCTGTTG
GACCACGCAGCTCCTTCTACCCATAAAACCCCCTTCTCTAGGTCGGTGGAAATCTTGGTC
ATCCTTCCGTGTCTAGNTAAACTGGNCACCTCCTCCACGAAAGCCTTCTAAAAACTCCTT
CTCAGGGGAACTGGTTTTCTTTCT

Sequence 81

CACGCGTCCGCAAAATAGCCCCACATCCNGGCAAAAGGGGCCTTTCCCTTGGCCCAGAAG
AAAAAGGAACAAGTGGAGTGCAGAAGAAAATCTGTACTGAGAGACTTGGGCCTAGCTTGT
CTTCCAGTGAGCCAACCAAGGCTGGTGCTGTCCCATCCAGTCCCTCGACGCCAGCACCAC
CCAGCGCCAAACTTGCCGAGGACTCAGCTCTGCAGGGTGTGCCCTCTCTGGTGGCAGGTG
GAAGTCCACAGACTCTTCAGCCGGTATCCAGCAGTCACGTGGCTAAAGCTCCCAGTCTGA
CCTTCGCTTCCCCCGCCAGTCCTGTCTGCGCATCAGACAGCACTCTCCATGGGTTAGAGA
GCAACTCTCCCCTTTCACCACTGTCCGCTAATTATAGCTCACCTTTATGGGCTGCAGAGC
ACCTCTGCCGCAGCCCAGATATCTTTTCAGAGCAGCGGCAGAGCAAACATAGGCGCTTTC
AGAATACCCTAGTAGTCCTACATAAAATCTGGGTTGCTGGAGATCACTTTTGAAAACCAA
G

Sequence 82

TABLE 1

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ACGCGTCCGCACCCCTGTGTCCAATGACATGTGCACCCAGGTCGCCAAGCGGCCTGTGGA
CACCCAGGCCTGTAACCAGCAGCTGTGTGTGGAGTGGGCCTTCTCCAGCTGGGGCCAGTG
CAATGGGCCTTGCATCGGGCCTCACCTAGCTGTGCAACACAGACAAGTCTTCTGCCAGAC
ACGGGATGGCATCACCTTACCATCAGAGCAGTGCAGTGCTCTTCCGAGGCCTGTGAGCAC
CCAGAACTGCTGGTCAGAGGCCTGCAGTGTACACTGGAGAGTCAGCCTGTGGACCCTGTG
CACAGCTACCTGTGGCAACTACGGCTTCCAGTCCCGGCGTGTGGAGTGTGTGCATGCCCG
CACCAACAAGGCAGTGCCTGAGCACCTGTGCTCCTGGGGGCCCCGGCCT

Sequence 83

CCCCGCGTCCGCTCTTACGCATTACTCTATGTCTACTGTTATGGGTGTGTAATTTTATAC
CATAGATGTTTACTCTTTAAACAGACACTTCTAGTCTGTTTTATTTCATGTGTCTGGGAG
CGGATAAAGTGTGAGGTTCAGGGAGAAAGAGAGGTCTGTCTCAATGCCTTGGCACGGCAT
GAAGACAATCTCCCCTCCTTGTCCCCTTTCCCTGCTAGCTCCTGATGACTGACAGATTCA
CAGCAGAACAGAAAGGACTGGGAAGGGATGGAGGTGGGACATCTGGCACTGACCTTCAGG
GGCTGACCCTGTGGGGGAACATCTGCCCTGAAGAGTTGGAGCCTTCATGTGATGACACAG
AGCTGAAGTGTGATATTCGGGAGGGGATAGAGAGTGCTTGGAGGTTTTCTGATTTTGAAG
AATCCCAAGTCAGTC

Sequence 84

GTCCGGCCGCTTCCGGTCTCCCTCCCGGGCCGGCGCTGGCCTGACTGCGGCCCCGGTCCG
TAGCACTCCGCCCTCCGCTTCTCCCGCCCTGTAGCCGCGAAGACTGCTTCAGCCTTTCCC
TGTGCTGCCCCTGCCGCGCGATGGAGACGAGCTCGAGCTGCGAGAGTCTTGGCTCCCAGC
CGGCGGCGGCTCGGCCGCCCAGCGTGGACTCCTTGTCCAGTTAATGTGTTAAGAGCCATT
GACATTTGAAGATCATCAGAAGTGAAGATAAAACATCTCAAAAATTATAATTGCCTCCAC
TTCTCATTCAGAGAATTCAGTGCATACAAAATCAGCTTCTGTTGTATCATCAGATTCCAT
TTCAACTTCTGCCGACAACTTTTCTCCTGATTTGAGGCCCATGCAGTCCAGTTCGGGAGC
TAAGT

Sequence 85

CCGCGTCCGCGTGAGGTGTGGGTGTTCGTTTCTCAGGTAAAACATGGCTAAAAGCTTACG
GAGTAAGGTGGAAAAGAAAGATGCGTGCTGAAAAGAGAAAAAAGAATGCCCCAAAGGAGG
CCAGCAGGCTTAAAAGTATTCTCAAACTAGACGGTGATGTTTTAATGAAAGATGTTCAAG
AGATAGCAACTGTGGTGGTACCCAAACCCAAACATTGCCAAGAGAAAATGCAATGTGAGG
TAAAAGATGAAAAAGATGACATGAAAATGGAGACTGATATTAAGAGAACAAAAAGACTCT
TNTAGACCAGCATGGACNGTCCCAATTTGGNTGAACCCAAAGGCAAANAAAAANGNTTTG
ANGGCAAACCGANNGAAAAAAAAANGGGGAAAACCAACCNAAANCCCTTAAAANGGGCCA
ANGGGGTTTGGCCNCTGNNAATNNTTTNAACCCNTTTGAAAACCCCCCCTGGNNGANACC
NCCCGTAAAAAATNTTCCCCCCNNTTTTTTTTTT

Sequence 86

CCACCGCCGTCCGAGGAGGGATCACCAAGCCGTGGGCCATGAAAGTCGGGGGGGGGGCACC
GCAAGCTTGAAAGCTTCATCATTGACCTTTCNCAAGAAATTACCGGGGCCAAGGCCGCTT
GTTTCNAAAACCCCCATGGAAACNAAAACGANGGGGAGGCANGGGAGAACCACCCCCTTG
GACTTTTTTTTTNATTTCTTCTTGGACCTACCGAAGGAGGGCACAAATTGCCGGGAAGATT
GCTTGCCTTTCCACCTTGGGACAAGGGGATCCTGGGACTTTTCCGGCCCGGGGTTCCCNT
TCCCGTTGGCCCGGCAAGGGATTGGGTCNAAACAATTGACCCAAGGGAAGAATCCCCGGG
GACGGTCACAACCGGGGNACCAAAGGNAAAGCTTTTTTGGGANGGGAACCCTTTTTTTTA
ATT

Sequence 87

CCGGGTCCCTCCCTGCGGAGCCGCTGGTCCGGCTGGCGGAGATGTGACCGCGGGCCCGGC
CGGCCTGCCTCAGGCGTCGCGTCAGCTCCCGTGTCCGTGCCCTTAACCCACACCGATGGC
GGGATCCGGCTGCGCCTGGGGCGCGGAGCCGCCGCGTTTTCTGGAGGCCTTCGGGCGGCT
GTGGCAGGTACAGAACCCGCTGGGTAGCGGCTCCTTCCNCTTCGGGGTATTCGGGTTTCG
CTTGTTGGGGAACCCTTGGTTGGCCCCCGGGGCCCTTAAANCAGTTNTTGCCGCCAGAAA
CCACCGGGGTTGCGGCCTTTGCCGCCNAGTATGNTTTCCGAAAAAAAAGGGCCGGGCTTG

TABLE 1
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NACAAGTTGCANGGGTCACAAAAACATCGTGAATTTTGATNGGAGTGGTTACAATCCAC
Sequence 88
CGTCCGTTTAATTATAACCTAGATTGTCTGGGCAACGGCAGGAACGGAGTGCCACTGTGG
AGCAGATAACTGCAGTGGTTTTCTAGGAGTGCGGCCAAAGTCGGCATGTGCGTCAACAAA
TGAAGAGAAGGCAAAAAATGCTAAGTTAAAACAGAAGAGACGAAAGATCAAAACAGAACC
AAAGCAGATGCATGAAGATTACTGTTTTCAATGTGGAGATGGTGGAGAGCTGGTCATGTG
TGACAAAAAAAGACTGTCCCAAAGCATACCACCTCCTATGCCTTAACCTGACTCAGCCACC
ATATGGAAAGTGGGAGTGTCCGTGGCATCAGTGCGATGAGTGCAGCAGTGCAGCTGTTTC
CTTCTGTGAATTCTGTCCACATTCATTTTGTAAAGATCATGAAAAGGGGGCCCTGGTTCC
CTCTGCACTGGAAGGCCCGCCTCTGCTGCTCGGAACATGACCCCATGGCTCCTGTGTCAC
CAGAATACTGGAGCAAGATAAAATGTAA
Sequence 89
NGTCGCCCCGCGTCCGTAAAATGTTAAGTCCCCTAAAAGTGAATAAATTTTAAATACCTA
CTTTTAAAAATACTGTCTTCTAAATTGACATAATTGCTTTTCTTACCAAAAGAAGGAGAG
GTTCCCCTAATTCCTTTTGGGCCATAGATCCGCTTTTAGGATCTGATTAAAGATGTGGAC
TTTCACCGCAGGAAGATACCCATGGGCACACCATTCAAAATGTATCAGATTTCAACGGTT
TTACAAACTCCCCCGGGATTAAGTCAAATGGGTGGATATTACAGCTGTTTTCATCAGATA
TGGTTATTTGTTGACAACCATCAGGACAACAATGTTTATAGATGGAAGGATAACTTCCTG
GTTTTTTTCCACATTGAATGTGGCTAGTTACATATCTCAATTTAAAATAAATTGTGGAAA
GCCAAAAAAAGTATGGTCAAGCTAACCTTGGGGTGGCTTTTACCTGATGCCTACAAGCACA
GAAAAATAGTTTTTAA
Sequence 90
CCGCGTCCGATTATGCCAAGAGAAGGTATTACTTTAAGATGTGAAAAATGTAAAATGGAA
AATTACATTACTAAGAAAAACAAAAAAACACAAACTGNNAAATTAGAANTGAAAAAACAT
TGCCACAAATGCAACGCACATACAAGTCATAAAGAAAAAAAATAATTTAAAATGAATAGA
AAATATTTAAGACTTAAGCTTTGAAGAACACAATTTAGATGCAATAATTTCATTTTCTCA
ACAAACAAGATTATGAGTTTCTAATCTTCAAACAAGTGATGGAATAGTGTTTCTTGAAAA
AGAAGAAATCCATTTATTTGTTGATTCAAGATATATAGAAGCTGCTCAAAAAGATGCAAA
AAATGTACAAGTTCATTTATTGACAGCAGCTAATTTAAAAGATTTTGTAAGTAGTAAAAA
TTACTTAAAAATTGGTGTTGAAAAAGAATACTTAACTTTAGCTGATTTTAAAAAACTTCA
AGCTTGATTTCCAAGTGCAGAATTTGTCAAATCAATGCGCAAAAATTAAGACTTATTA
Sequence 91
CCGTTGTCCCATATATCTTGTTCCAGCAGCCATATATCTTGNGGTCTACACGCCTAAAGC
ATGATTTCCCTTGAAGTCTTGGGGTTGNTTAAAGGAGAGTCCCTTCAATATAAAACCTCT
GAAATATTAGTGAGAATGGCTCACTAATGTGAACAATGTTTAAATTATTTATTTATATAT
AGAATTACTGAATATTAGTACTGGGAAAATTTATAGAAATCATCTAGTCTTACCCTTCAT
CTTACATATAAGAAAAATGGTCTTTTCTTCTAATCACATTTACAAAATATGATATAAACC
TTGACCATGAATGTATGAGCCTAATTAGAGAAACAGAAAATCAGCATGTCAGTTTTCCTT
CATTCAAAATAACATAGTCTTTCTAAGCAGTCATTCTGGGAG
Sequence 92
ACCACGCGTCCGCAAGGCCCGCCCCTTACGTACTCGGAGCTCGGATCCCAGTGTGGACCT
GGACTCGAATCCCGTTGCCGACTCGCGCTCTCGGCTTCTGCTCCGGGGCTTCTTCCCTGC
CCGCCCGGGGCCCTGACCGTGGCTTCTTCCCCGGCCTGATCTGCGCAGCCCGGCGGGCGC
CCAGAAGGAGCAGGCGGCGCGGGGGCGCGCTGGGCGGGGGAGGCGTGGCCGGAGCTGCGG
CGGCAAGCGGGCTGGGACTGCTCGGCCGCCTCCTGCCCGGCGAGCAGCTCAGACCATGTC
GCCTGAAGAATGGACGTATCTAGTGGTTCTTCTTATCTCCATCCCCATCGGCTTCCTCTT
TAAGAAAGCCGGTCCTGGGCTGAAGAGATGGGGAGCAGCCCGCTGTGGGCCTGGGGCTCA
CCCTGTTCACCTGTGGCCCCCACACTTTGCATTCTCTGGTCACCATCCTCGGGACCTGGG

Sequence 93
NCGCGTCCGCCAAGATGGCGTCCNTCATGGAAGGGCCGCTGAGCAAATGGACTAACGTGA

TABLE 1
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TGAAGGGCTGGCAGTACCGTTGGTTCGTGCTGGACTACAATGCAGGACTGCTCTCCTACT
ACACGTCCAAGGACAAAATGATGAGAGGCTCTCGCAGAGGATGTGTTAGACTCAGAGGAG
CTGTGATTGGTATAGACGATGAGGACGACAGCACCTTCACAATAACTGTTGATCAGAAAA
CCTTCCATTTCCAGGCCCGTGATGCTGNTGAGCGAGAGAAGNGGA
Sequence 94
ACGCGTCCGCGGACGCGTGGGTGCGGGCCGGCCNCCCTGGACGAAAGAAGAGGGCCCCTC
CAGGCCAGTCTGGGCACCCTGGGATAGCGGCTGCAGCCAGGCATGGCCGACTCTGCACAG
GCCCAGAAGCTGGTGTACCTGGTCACAGGGGGCTGTGGCTTCCTGGGAGAGCACGTGGTG
CGAATGCTGCTGCAGCGGGAGCCCCGGCTCGGGGAGCTGCGGGTCTTTGACCAACACCTG
GGTCCCTGGCTGGAGGAGCTGAAGACAGGGCCTGTGAGGGTGACTGCCATCCAGGGGGAC
GTGACCCAGGCCCATGAGGTGGCAGCAGCTGTGGCCGGAGCC
Sequence 95
CCCCGCGTCCGAGGTGACCTCCTTGGCCCAGATCATCTTAGAGCCAAGAAGCAGGACCAT
TCGTGGTTTTGAGGCCCTGATTGAAAGAGAGTGGCTGCAGGCTGGTCACCCATTCCAGCA
GCGCTGTGCACAGTCAGCCTACTGTAACACCAAGCAGAAGTGGGAGGCTCCTGTATTTCT
TCTCTTCTTGGACTGCGTGTGGCAGATCCTTCGTCAGTTTCCCTGTTCTTTTGAGTTTAA
TGAGAATTTCCTCATCATGCTCTTTGAGCATGCTTATGCCTCACAGTTTGGAACATTTCT
GGGCAACAATGAAAGTGAAAGATGTAAGTTGAAGCTACAGCAGAAGACGATGTCTTTGTG
GTCCTGGGTTAATCAGCCCAGTGAGCTGAGTAAATTCACCAATCCCCTCTTTGAAGCCAA
CAACCTTGTCATCTGGCCTTCAGTTGCTCCGCAGAGTCTTCCACTGTGGGAAGGTATTTT
CCTACGTTGGAATAGATCCTCTAAGTATTTGGATGAAGCATATGAAGAAATGGTTAACAT
CATTGAATATAATAAAGAATT
Sequence 96
CCGCGTCCGGTTTNCCTGTTGGTTAGGCTGGTCTTGAACTCCTGACCTCACGATCTACCC
ACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCCTGAGCCACTGCACCAGGCCCACCCTG
TCTCTATTTTCTAAAATAATAAATCTGATTTTAATGTGGCTGGATATAAATCATATCACA
GTTGGATTTGGAAGTTTGGGTTTTATTCCTAACTTTGATGGGAAGCCATTTTAAGCAGAA
AGATGATTTTAAAAGACCACTATATTTTCTGTGTGAAGAATGAACTGGGAGATTTCATAG
TATTATTAACAAAAATAGAATAGTTGGGGATCTGGTTTGGCTTGGGAAATGGAGGAAGTT
CAACTTTGGGCATGCTCCATTTGCATTGCCAAGACATTGCAGCAATTGGAAGTGCAGTCA
GAGAGCTTAGGAGAAACACTTGGCAGATGGACATAGAGAAGTAGTACTCAAAGCTTGTGG
ACATTGATTAAATAATCATACAGGAGTATGGGCTGACAAAAGATTNCAAAGAGAAAACCT
Sequence 97
GTCNCCACGCGTCCGGGACTCTCGGCCCTGGAGAAGGAGGTGGACTTTGACTCCGACCCC
ATGGAGGAGTGCCTGCGGATCTTCAACGAGTCCACCAGCGTCAAGACGGAGGACAGAGGC
CGGCTGGCCCGGCAGCCCCCCAAGGAAAAGAGTGAGGAGAAGGGGCTTTCGGGTCTGACC
ACTCTGTTCCCCGGGCAGAAGAGGAGGATCTCCCACCTTTCCAAGCAAGGCCAGGAGGTG
GAGCCCCCGAGGAGGGGTCCCGCGGTGCCCCCGGCCCGGCCCCCGACGGCGCAGGAGGTG
TGCTACCTGCGGGCCCAGCAGGCGCAGAGGGCATCGGCGAGCTTGCTGCAGGCCCCCGCC
AGGCTGGCAGAGAAGTCGCCCTNCGTCCACATTTCCCGCCCCTGGCGAGAA
Sequence 98
CGCCNCGCGTCCGGCAAAGCAAAAGGGAAATTATTTGGTGGATGGTAGCTCAAAATTGGA
ACTCTTGTTCTAATTCAGTTACATTGGCTTTACCCTCCTTAGATTTTTCATCAAAGGGCT
GTCCCATTGCAATCTTACTAAAACATTTTGTTAAAATAAACTCTTTTCCTTTTTATATTA
ATAATTAGGCTTTTAAATAAAGATGTTATTCCTTTAAAATGGTGGGCTTACCATCATTGA
AGATGTCACTCAGGTGGCCTTGCTTGATCAAAACGCCTTTTTTAAAAACCAAGCTTTAAA
AACATGTTTATAATTTCATGAAGTACATATATATTGTTCCCATAGTCTTCAGCTTTAAAA
CTATAAATATGCCCAAATTTTGTTATTTGCCCTACTTTAAGTAGGTTTATTGNGTTTGTT
TTTTTCAAGTACTTGTTTTTCTCTGATAAGACTCAGGAATTCTGAAATGTGAAAATGNCT
CAATT
Sequence 99

TABLE 1
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CNCGCGTCCGAAATCGTTGCTACCAANTATTCAAAACCCTTTGAGTTTACATACTAGTTA
CCTTAAAAATTANTNCCTGACNCTCNTGANTTTGGGNGGAAAGCCCTTGTNTCNNCTCTC
TNATGNACTCTCATGGGTTTTTTTGTATGATTTGAATATNAATGTGCCTAAAGAATTTTT
GCTCTCTTAATCTATGNATACATACTTGAACAAATCATTCTTGCTTAACTGCTGATCTTT
TGTAAAACTATTG

Sequence 100

GCCCCGCGTCCGGCTGGAAGCAACAGTTTGGCAGCCTGGGGTACACTCAGGTTATTCGTT
ACAACTATTATTATTTGATGTCTTTTTTTAAACTCAGGTCATCCACTTTTGACTGTCATC
CATGGAAGAGCTCTTATTAAAAGCCTCAGACTTTCGGGACCTATGATTCTTTGGCACAAC
CTTTTGGAAAATTCTTAAGCAGGGATGAAGCAAACTTGATTGGAGTTGGGGAAAAAGAAG
ACAGATTAGTATTTTTCATGCTGACAAAAAATAGCTGCTATGACTTTTCCCGCAACGTGG
ACAGGGGCCAAGTGAAGCTGAACTGGTCATGGTCTGTCGCCCAGTGTTCCCTTGTCGTCG
GCGATTTTGCCCCCGACCCTTCTTGGTGGGCTTAGTGGTGGCAATCTGTCTCTTCTACCA
GACTCTGACCCTCCGAGGGTCGAGGAAGCTCACAGCCGCTGCCCCTGGGGCTGTCCCACA
CACATCCACTGAAA

Sequence 101

CCACGCGTCCGGGCGTCTCGGCTCTTCTGTATCTCCCTGGCCTGGTCGCTCTCGGCTTCT
GGGCCTCGCCCTTCCTGTCTGTGAAATGGACTCTGGGTGAATCCAAATGGGATCGTCTCG
GGCTACGTCCTGTCCCTCCGGGACTACAAGTCCCAAGGTGCTCGAGGCGACCTTGGCTCC
CCCTCCCCACCGGGACCCGCCTCCCTCCAGCCCAAGTCACGTCGTCTAACCTGTTCCCAG
CTCCTGCCCCGCCCCGTTCTCCGCTCCCCAAGCCGGAGCCCGAGCTGGAGGAAGCCCCCA
GGTGCCAGGATCTGCTCGGATCCGNGCCCGCTCCGGCCGGCACCATGGACAGTGAGGCAT
TCCAGAGCGCGCGGGACTTTNTGGACATGAACTTTCAGTCGCTGGCCATGAAACACATGG
ATCTGAAGCAGATG

Sequence 102

CCACGCGTCCGGTCCGGGGTGGAATCACGTCGCTGCGGCTGCCGACGACCCACACCCGGC
CGGCCGCCTCCGCAGACCCACCTTGGCCGCGCGGCAGGGGGCGCGCAGAGCCCCGAGGGA
GCGAGTCCCCGCGCGTGGCAGCTCGGCGGCTTCTCCCTTCGGGAGGTCCGGCTCCCGGCT
CTCCGGACCCGCCTGGCGTCCTCGCCTGCGGCGGGGCGGACGACAGCGGCGCCCAGGAAT
GGCTTCGGCGGGCAGCGGCATGGAGGAGGTGCGCGTGTCGGTGCTGACCCCCTTGAAGCT
GGTCGGGCTGGTGTGCATCTTCCTGGCGCTGTGTCTGGACCTGGGGGCGGTGCTGAGCCC
GGCCTGGGTCACAGCTGACCACCAGTACTACCTTGTCGTTGTGGGGAGTCCTGCCGGAAA
CCCGCCAGCTTGGACATCTGGCACTGTCGAGTCCACGCTCANCAANCGATTGGCAGATTG
C

Sequence 103

NCGCGTCCGAGAAATTGCAATTTTTTAATTTTTAATTTTAAGAGGAATTCGTGCCAGAGA
GAACTATTAAGAAAGGGGTATATCCAGTCTAAGGATTATTAGGCTCAAGTCCATGAATAG
GCTCTGGGAAGTTTGTAAACACTTGGAAATTATTTGCAAAATGTGTGTGTGAATGTGCTT
TACCTTANAGAGTTCATGAATTTCATTAGATTGTTGAAAGAGTTTTAGTATTAACAAAGG
AAAAACAAACCACCACCATCACATAACAAAACCACAACAGTGATTTAATCTTTTCACCTA
ACAATAAGTAAATTGAGGCTCTGATGGCTAAATTAATAGCCTGAGGCTACACAGTCAGTG
GCAGAGCCCAGGGTANAGAGAGAACCAGCACAAGCCATTGTGGGAGCCGAGGGTAAAGAG
AGAGCTAGGTGTTGTACCTTAGTAAATAAATCAGAA

Sequence 104

GNGTCGCCCCGCGTCCGGAAGGTGGAGACCGCTTACCCTGATCNGGGATGTATCGGCTGC
GGGTGCGCAAGGCAGTCCAGGAGTGACCTGGGGCTGTGGAGAGCGACCCGTGGCCTTGTG
TTTCAGAGTTTACCACCTAGGATGACTTCAGTGACTAGATCAGAGATCATAGATGAAAAA
GGACCAGTGATGTCTAAGACTCATGATCATCAATTGGAATCAAGTCTCAGTCCTGTGGAA
GTGTTTGCTAAAACATCTGCCTCCCTGGAGATGAATCAAGGCGTTTCAGAGGAAAGAATT
CACCTTGGCTCTAGCCCTAAAAAAGGGGGAAATTGTGATCTCAGCCACCAGGAAAGACTT
CAGTCCGAAGTCCCTTCATTTGTCTCCTCAAGAACAATCTGCCAGTTATCAAGACAGGAG

TABLE 1

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GCAATCCTGGCGGCGAGCAAGTATGAAAGAAACGAACCGGCGGAAGTCGCTGCATCCCAT
TCA

Sequence 105

CGTCCGCGCAGCGCTTGAATCCCGTGGCCTAACCGTCCCTCGGAAGACCGGTCCCGCTCG
GGAGGCTCTGCAGTCGCGCCTGGGGTCAGGGCCGGGGGCGAATGTGGCTCGCGTTCTAGG
CCTCCCTGGGTTGGAAAAAGACTATGTTAGCAANGTGTCACGCCATGCTTTTGCCAACTT
TCCAATTAAAGGTTGACATTCCTGCATAAGCATTTCTCTGTGAAAATGTCCTTGCCTCTT
ACAGAGGAGCAGAGGAAAAAGATTGAAGAGAATCGACAAAAGGCTCTGGCCCGCAGAGCT
GAGAAGTTATTGGCAGAACAGCATCAGAGGACTAGCTCGGGCACCTCCATTGCTGGCAAC
CCATTCCAGGCCAAGCAAGGCCCATCCCAAAATTTCCCAAGGGGAGTCTTGTAAGGCCAA
GTGAGCCATTGGTGTCATTTTCAAGCAACAGAATCTCAGTAGCTCATCTAATGCTGACCA
AAGACCTCATGATTCCACAGTTTTCANGCAANGGGAATATGGAAA

Sequence 106

CCGGCCCTATCCCTATATTGTTTGCTTGTTTGGGATAACCTAAAATTTTTTATCCAGTTT
ACTACTAATTTGTTTTACCTGATGTATCTTCTCTTTCAATAATTTTATGTTACCTTCTGT
TTAGAATAATATTTGCCACAGATATTTAGGTTTAATTCTGTGTTTGAATGATTCCAATGC
CTTTCTCTACCCACTTTGAACACTTCATCCTGGAATGGTTGGCTGATGTATGTCTCTAAA
CAATTTTTTTTTTAGGAGAAGGTATGTGGGTAATGTAATTCCTAAACCTTTGCTTTTCTG
AAAAATCTTTCATTTGCCTTTATACATGACCAGATTTACTGGGTATATAGATTTGTTGAT
GAAAAAAGGTAAAAAGAGCAACTTTTGACATCCAGAGGTTTGTCTGGCACTCACAGCTAG
CCCCGTGTTATTCTCCCTATT

Sequence 107

GCGTCCGTCTNAACCCTAAAGCTAAAAAGTCATTGTGAACCTTTNGGTCTGATGCTAAAG
AAGGGAAAACAGGTACAGGAAATCCCATGTGGATGCTTGCTTNCAGGATTTCCTGCCATG
ATTCCAGAATCCCACAGCTNCAACATGATTGCAAAAAGACTCCCTGCTCATTTTNCCTCA
GCATGCACAGCGCTGTCCTGTCTCAGTTGCAACTCGACAGAGCCGCATTTACTCCAGAAC
CCAATCCACACACCTGCTCATCCTGCCCCGAGAGGAGTGCCTGAAGCCAATAGCAGGGAA
CTAGAGCAGACTTGGGTGGATCTTCATTGGATATTAGGTATCTTGCCCTAGATAGGCAAG
CAGTGGCCTTACAGATGCTGACAGATGATCTGATTAGATGCACAGNTGCTGGGTGGCGTC
TGGGGCCAGTCTATTGGNCAGTTCTGGGAGNGGGAACTATTTGGGCTCTGCAAAGATG

Sequence 108

CGTCCGCTCCCTGGCCCTGCTCCGGGAGCTGTCGTTGTCTCCGCCAGCAGCCCTGTGGCT
GCAGGAGCGCCAGGCCCAGCTTCGCCACTCGCTGCCCCTGCAGAGCTTCCTGCTGAAACC
TGTCCAGCGCATTCTCAAGTACCATCTGCTGCTGCAGGAACTAGGGAAGCACTGGGCGGA
GGGCCCAGGCACTGGGGGTCGCGAGATGGTGGAGGAAGCTATTGTGTCCATGACAGCGGT
TGCCTGGTACATCAACGACATGAAGCGCAAGCAGGAGCATGCAGCGCGCCTCCAGGAAGT
GCAGCGGCGGCTGGGTGGCTGGACCGGACCAGAGCTCAGTGCTTTTGGGGAACTGGTGTT
GGAGGGCCGCGTTCCGAGGAGGCGGANGGGNGGGTTGGCCCCCGGCTACAAGGGGGT

Sequence 109

AGAATTGTGTATGCCTTGCCTATCACGGTACAGCACGAAGCCAGGCTCCTTTCTCCACCA
AAGAAGATGGAACCAGACTGGAATTCTGTCTCCAGAGAGAAACCCAGCTGTTTGGGTCAA
AGACAGATGCTTCAGACTTGGGTGGGAAGGTGAAAGATGGCTATTTAGAAAGCTGGTGGC
ACGTTTTACATAAGGGAATGTCAGATGGGAGATGCTAGTTGCCATTTTAACAAAGCAGGT
AAATCGGTAAATTTTAAACTCTGTCCATGTTCTGTTAGAACTCAGGGACAAGGGATCCAT
GAAAAAG

Sequence 110

ACGCGTCCGCACGGAGAGAACTGGNCCTGGAGCGGGGGCGCGGGGAGGGGGGCGTCGTCN
TGGGTACAATTGCGCANGGGCAAAGGTCGAGAGGTCGCGCTGNCGCCGTTTTATTTGAAG
ACATCGTCCAGTTCTGACCATGGACTCNCAGCCATCGGCCCTTAGTTTCCATTCCCTCTA
GNGGGCCTTCNGAGGGNTCTACTGACGTACCTCCTTCCCTTGGTACCGGACCGGGGAAGT
GTTTTCGGGCGCGGGAGGTTCCGCATGCCCAGGCCTGGCCAGGGGA

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Sequence 111
CGGGCCCTTAGTCCAAGCCTTGATCGGCGACTAAGTGACGGCAGTGACTGCCGCCATGCC
GAGCTGGACGGAAGNCACTTCTGAGAAGGGCGGAAGTGTCTCGGGCTCCTTAGAGGGAGG
ACACCATATTAGTGCCAGTGGGGAAGTCACCGGGTGGAATTACTTCTTTGTGGAGTTTGT
GCTGTAGCGACAATGAAAAACGAAGAGTCAACTTTTATAAAACAAAATAAAAATTAAGTC
AAATCATGCCAACCTTTATTAGATCGGCTAGCAGGGTTAAACTTAATTCAAAGCCCCTGA
TGAATCGGGCCTTCATTGCACCCCCAAAGGCTCCGCCACCCTGATT
Sequence 112
CGCGTCCGGGCGCCGGTACGCCTGGTCCCCGCGTGGAGTCTTTACTCAAAACAGCTCCCG
CCTCAGGCCGAGATGAGGAGCCCTTCANAATAGCTGCTGTCTCTGGGNGGACCCGGGCGT
CCTTGGCAGCCCAGCTGNTCTGGACAAAGCCCTGCCAGTCAGGCCTCCGCTGGCAGGAAC
CATGGCAGAGGCTGGGGATGCTGCGCTATCGGTGGCCGAGTGGCTGCGGGCATTGCACCT
GGAGCAGTACACGGGGCTCTTTGAGCAGCATGGCCTGGTGTGGGCCACTGAGTGCCAAGG
CCTCAGCGACACCCGCCTGATGGACATGGGCATGCTACTCCCT
Sequence 113
TGTCGACCCCGCGTCCGCGGGANGTTCATGGAAACGCAGGACACGACAGAATTGTGTNTG
CCTTGCCTATCACGGTACAGCACGAAGCCAGGCTCCTTTCTCCACCAAAGAAGATGGAAC
CAGACTGGAATTCTGNCTCCAGAGAGAAACCCAGCTGTTTGGGTCAAAGACAGATGCTTC
AGACTTGGGTGGGAAGGTGAAAGATGGNTATTTAGAAAGCTGGTGGCACGTTTTACATAN
GGGAATGTCAGATGGGAGATGCTNGTTGCCATTTTAACAAAGCAGGTNAATCGGTNAATT
TTAAACTCTGTCCATGTTCTGTTAGAACTCATGGACAAGGATCCATGAAAAAGACCTGTG
ATGTTTCNTCTGGCGCTTTACTGGCCTGGGCACACCTACCAATCTTTTAGGATTTGACTG
GTTCCATTACATTTCCT
Sequence 114
GTCGACCCCGCGTCCGTATCACTGTAATTTAAGGAAAGAAAACTTCAGTTCTGCCTCTGG
ATACCAAGATGCCCATTGCTCAGTTCAGACAACTGATATTAAAATAAAGCTATGCTCCTT
ACTTACTTCTTTTATTATAAACAAATTCCTTTGCTTTGGCTGATACTAGCTGAGTCATTG
ATCATCATTGGTACCATGATATTGTAATCTATGCTGCTATTTGGCACAAGACTGAAGTTC
ACACTACAGTAGAGAATACTATAAGATAATTTGCAATAAATACTGATAATAATAATACCA
GATATTTTAACTAACTTTTTCTACCTTTATTAATAGCAATCAGCACACTTGAATGTGTAA
ATTTCACAGTAACTTTAGGCAGAACTTAAGCTCCAGGCCACATTTGTATAAGAACACCAA
GTATTCAAGGCATAAAGTCTGTTGTAAGCCAAAAAAA
Sequence 115
AGTTCAGTCTGCAGCAGTCCCTGCACCCACTTCCCAGTTGCTTTCATCTNTGGAAAAAGA
TGAGCCCCGTAAAAGTTTTGGCATCAAGGTCCAGAATCTTCCAGTACGCTCTACAGATAC
AAGCCTTAAAGATGGCCTTTTCCATGAATTTAAGAAATTTGGAAAAGTAACTTCAGTGCA
GATACATGGAACTTCAGAAGAGAGGTATGGTCTGGTATTCTTTCGGCAGCAAGAGGACCA
AGAAAAAGCCTTGACTGCATCAAAAGGAAAACTTTTCTTTGGCATGCAGATTGAAGTAAC
AGCATGGATAGGTCCAGAAACAGGAAAGTGAAAATGAATTTCGCCCCTTGGATGAAAGGA
TAGATGAATTTCACCCCAAAGCAACAAGAACTCTNTTTATTGGCAACCTTGAAAAAACC
Sequence 116
CCCGCGTCCGCACCAGGCCCGAGTCTTCCCTTCATGGAGGGTGACGTGAGCAGCAAGGAT
AAGATGGGCAAAGGAGTGGATGGGACATATAAAAAAGCTCTTCAGGAAGCTGCAGCAAGG
TTTGAGGAATTAAAGGCCCAAAAAGAGCTAAGACAGCTGCAGGAAGACCGAAAGAATGAC
AAGAAGCCACCACCTTATAAACATATAAAGGGTCTCCCTCTGTGACCCAGGCTAGAGTGC
ATTGCTGCAATTTTGGCTCACTGCAACCTCCGCTTCGTGGGCGCAAGTGATTCTCCTGCC
TCCTGCCTCAGTCTCCTAAGTAGCTGGGATTACAGACATGAGCCACCAACGCCTGGCTAA
TTTTGTGATTGGCAAAAAAGAGATTTTGTGACACATAAAGATGATATGAAATTCAACTTT
CAATCAAGTATCCAGAAAATTTTA
Sequence 117
CCACGCGTCCGGCCCTTGCCCCTGTCNCACANGAATGGACCCACGGCCCCACCCAGCGCC

TABLE 1

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GTCAGCGCCCGGCACTGCCACCCGGGTCCGGGCCGCTGCCTGCACGTGGGATCCGTCGGG
CAGCCGGGGACAGAAGAGACCCCGCCGTTGGGACGCAGGGCAGAGCCGGCCACCTAGTCC
CTTCCAGCCAGCAGAGGCGAGGGAAGGCGTCACTGCCCCGGCGGGGAGACGGGCAGGACG
CCCTGCCCCGCACCAGCAGCCTCCGCCGGGGCGCCCTCAGCTCCCTGCTTGGCTCTGTCT
CTCCACACCCGGCAGGGCCCGCGGGCTGCCCCAGCCTGGGGGGGTCGTGGGCAGCTGCTA
CTCAGTGCCAACCCCGTGGGGCACAGA

Sequence 118

NAGGGAGTCGACCACGCGTCCGGTGCGGAGCAAGCATCACACCATGGCGTATGAGTGTTC
CTCTGTGTAGACTCAACCTGCGCCTCGCCGTCCCCCATTCGCACACCCGATGCCCGGGGG
TCGCTACGGACTTAAAATCTCCGCACCGCACCCTCCACCTCAGAAACGTTCCTGGATCCG
AACACTGCCCCCTGACGACCTAGAGAGATCCCGGCTCCCAGCCCACTGAGTGGCTTCAGC
CTCGCTGGTAGGTCTCTCCTCCAAAGCTCTGGAAACAGACTCCTGGGAGTGANGGTAGNG
GGGGAGCNGCAGGCACCGCCCCCTTTCCCCAAGTCCNCCGCCCACTTCATCCCTCAGGCA
CCTNCCAACTCCTGGCCTTNTCTGCACGAGGCGCCTGCCCCGGGCCCCGCCTACAGGGGA
CCCAGCTCTTCTTGCAGCCATTGGAAGNTGATCACCTGGGAGGTGA

Sequence 119

CACGCGTCCGGTTTTACTGCTCTTTGCCATGTGGTAAAAAGAGGCTGAGACATATTTAAG
AATTCCAAGAGGATATTATGTGTCAGAATTTCAGACACTGATGAGAAGTTTTTAATTGTT
CTTTTTTATTTGATTTTGGAATTCAGGTGCACTCTATTCAAGTGCAAGGATATCAGAAGT
TTTTTTTTATTTAAAAAATTTTTTTTTCGAGATGGAGTTTCACTCTGTTGCCCAGGCTGG
AGTGCAATGGCAGCTTACTGCAACCTCCACCTCCTGGTTCAAGCGATTCTCCTGCCTCAG
CCTCCCCAAGTAGCTGGGGATTACAGGCACCGCGCCAACACACCTGGGCTTATTCTAATT
TAAGTAAGAAAATGGGAAGTCTTACCCATNTTTGGTCAAGGCTTGGGTCTTCGAACCTNC
TGACCTTAANGGTGATNCCACCCCANCTTTGGCCTCCCAAGCCGTGCTNGGGATTATAGG
GCATGAAGCCCACCCANGCCCGGNCCCAGGATTTTTATATTTAAGCCCTTCTTGCTCTTN
AAAAAAAAAAAAAGGT

Sequence 120

NGTCGCCNCGCGTCCGGGAACCTACCGGTACCGGCCGCGCGCTGGTAAGTCGCCGGTGTG
GCTGCACCTCACCAATCCCGTGCGCCGCGGCTGGGCCGTCGGAGAGTGCGTGTGCTTCTC
TCCTGCACGCGGTGCTTGGGCTCGGCCAGGCGGGGTCCGCCGCCAGGGTTTGAGGATGGG
GGAGTAGCTACAGGAAGCGACCCCGCGATGGCAAGGTATATTTTTGTGGAATGAAAAGGA
AGTATTAGAAATGAGCTGAAGACCATTCACAGATTAATATTTTTGGGGACAGATTTGTGA
TGCTTGATTCACCCTTGAAGTAATGTAGACAGAAGTTCTCAAATTTGCATATTACATCAA
CTGGAACCAGCCAGTGAATCTTAAATGNTCACTTAAATCAGAACTTTGCCNTTAANAAAG
AAAATTGGGGNGTCCTGGGTTTA

Sequence 121

CCNCCCCGCGTCCGATCAATTCCTGGAATTTATGGTTATAACTTCGAAACAGAAGATGGA
CTAATTTTATTTTTATCTAATTTTATTGTTGGAAATTTAGGAATTTACGGAAATACTAAT
TTAAATTATTTAAAAAGATCATTAGAATCAAGTAAACCAATTTTGATGGCTATGATTGAC
TCAACAAGAGCTAATTATCCAGGTAAAACAATAGATAAAATTTTTGCTAAAAAGTTTTTA
GAAAAAACATTTTTAACAACAAAATCCACTTCAAGAATAATTGTCGGAGCATACGATGAA
GAGATGCTTTCAATTCAAGAAATCCTTGATTTAGCTTACAAATCAAACGTAAAGGTTGCT
GTATATGGNAGAAATTATGACAATCTTTTAGAAATGAATCAACGATTAGCACAAAAACAA
AATCTTGAAATACATTATCCAGAATTTTTTGATTTCAGGCAAGCTAATAAAATCGATAAT
TTTGTAATCTTAATTACATCAACACCTGGAGCGAATTTACCAAAGATTTTTTAGAAT

Sequence 122

CGCGTCCGCGAAACTGAGAACCAGTTCTCCCGAAGCCGCGGGTCTCCGGCCGGCGGCGGC
GGCGGCGGCGCAGGTGAGCAGGGCAGGGGGCAGCCGAGGGAGCGCGGGGAGCGGGGGCCG
GGGGGCCACGTACGAGGGGCTGCAGGCCCAGCCGGGGCGGGACTCGCCAATCCTGCGTCC
CCAGCTCAGGACGCGGACGCTGATCCGAAGCCCCTGGCCCCGGCTGGGTCAGCACTGGGA
GAGCAGGCCCAGGTCCGCAGCCCGGGTGTGGGGCCCTCCCCAAATCCAGGGAAAGGATCG

TABLE 1

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TGGAGCGGGGTGGGGACTGAAAGCCATTTCCTTTCCCGTGAAGAATTTTTATCAGTGCAA
GTAACAAAATATT
Sequence 123
CGCGTCCGCTNAAAAAAATAATACCAAAAAAAGTTTTTGTAAAGACAACGCTCTCGCTGT
GTTGCCCCGCCACTGTGGCCTCCTTAGCTTCTTCCCTGGGGCCTGCTGGACCTTTCCATA
CTCCAGAAACTAAAGGGGGTCCAGGACCCTGCTTNAACCCTAGGATCCCGCATCTTTTTT
TTTTTTTTTTTGGACGCAGGGTCTTGCTGTGTCCCTCAGGCTGGAGTGCAGTGATTCACT
GCAGCCTCAAACTCGTGGGCTNAAGTGATTTCTTTAGCCTCAGCCTTNTAAGTAGCTGGG
GACTACAGTCATACACCAACATGCCCAGCTAANTTTCCTTTTTTTAATTCTTGTAGAGNA
TGTTTGAGACGGCTTGGGCTNTGTTGCC
Sequence 124
CCNCGCGTCCGTGCTGATAAAACTCCTTTGACCTGACGATTGCTCTAAGTCCTAATTGCC
ATATTTATATTCCCATAGTAAGAGTGTTTGGAGATAGTGTTTGAGCTTTTTTGCTGGTGT
TAAAAATGCATAATGAAAGATGGCACNAGAGAGGCATATTATATCCAATTCATGAAGTTG
TTTGTGTTAACAGAAAGCTTATTTTAATCACTTAACATTGTTGATTTGTCTAATCACAGT
AGCGCTATTGATTAGGAGCCTGACCTTTANATGGTTGACTTGTGAGTGTATTCAATATGG
TGAAATAANGGTGTTTGATATATGGCTGCAGATTTTAGAAGGTGTCATTAGCAAAGGTAT
ACGGAATAAAATANGGGTTATAGTATTCCTTACTCAAATTCTGTATGTGCTAGAGCTGGC
TGGAGTCTGTTGGCATGCTCATTTGGTGTAAGGNCCGNTAAGGACTATGCT
Sequence 125
GCCCCGCGTCCGCACTTTGTATTGATAACTTAAAATGGCATCAGTTTATCTTAGACATCA
GCTTGCTTTTTATCTCCTTTTTTAGTGAGTGAAATAGAGCAACTAGCATGCCTGTGTTCC
CAGCTACTTGGGAGGCTAAGGTGGGAAGATCAATTGAACCTAGGAGGTTGAGGCTATAGT
GAGCTGTGATTGCACGACTGCACTCCAGCCTGGGCAATGGAGTGAGACTCCTGTCTCTAA
AACAGCAACAACAAAAATAAAGCAACCATAGTGCATAAGGGAAATTAAATGTTCCCTATA
GAAATATGTGTATGTCTGTGATAAGTGGTATGCAAATGCTAATTATTTTATAAAATAAAA
GTTCAGAACTATTCTTATCATTGCCACTTGAACAATTAAAGGGTTTGCTTTATTTCCTAA
TGTTTAATAGGAACCCTTTGCTTCAAACAGCCTTTGTTGAAATCATGTAAAAATTTGTTA
ATAG
Sequence 126
CNCCACGCGTCCGGCGGCCCAGCCGCCGCCTCCCGTTCTCCCCTCCGCAGCGGCGGCGGT
GGCGGAGAAGGAACTCGACACGCACCGACCGCCCTCCCGCCCCAGCCGAAGCGGAAGCTG
TAGCCCGCTCTGGGCCGGGGCCATGGGCGCCCCGCGCCGCCCGGGTCATGAGGACGGAGG
CGGAGGCAGCGGGGCCGCCGCTCGAGCCCGGGGACTTTGTGCAACTGCCTGTGCCCGTCA
TCCAGCAGCTCTACCACTGGGACTGTGGCCTGGCCTGCTCCAGGATGGTGCTGCGGTACC
TGGGCCAGCTGGACGACAGTGAGTTTGAGAGAGCCCTGCAGAAGCTGCAGCTGACCAGGA
GCATCTGGACCATCGACCTGGCCTACCTGATGCACCACTTTTGGCGTGAGGCACCGCTTC
TGTCCCAGACCTGGGGTGTNGACAAGGGCTACAAGAACCAGTCCTTCTACAGGAAGCACT
TT
Sequence 127
CNCGCGTCCGCGGTCGCGTGGGCGGACGCGNGGGTTCGTCCTGGACAAGTCTGGGAGTGT
GGCAAATAACTGGATTGAAATTTATAATTTCGGNNAGCANCNGGGCGGAGAGATTCNGTG
AGCCCTGAAATGAGATTATCTTTCATTGTGTTTTCTTCTCAAGCAACTATTATTTTGCCA
TTAACTGGAGACAGAGGCAAAATCAGTCAAGGCTTGGAGGATTTAAAACGTGTTANTCCA
GTAGGAGAGACATATATCCATGAAGGACTAAAGCTAGCGAATGAACAAATTCAGAAAGCA
GGAGGCTTGAAAACCTCCAGTATCATAATTGCTCTGNCAGATTGGCAAGTTTGGACGGTC
T
Sequence 128
GGAGTCACCNCGCGTCCGCCCCGCGTCCGCCCCGCGTCCGGTTAATCTTAGGCCTGAGGT
TTGGGGCCGGGTGACAAGGAAGTTAAACTCGTCCTCCCTGCCAGATTCTACCCCCTTTCG
GAGCTGAGCTCCAGCCAAACCTGTGGAGTTTTCTTTGACCATTTTAGGACATGTTACTGC

TABLE 1

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TTCTGAGTTGGCTGCCCCAGCTGCTCAAACAAGACCTTTCTCCTGGGTTCCTAGTAGTGA
AAAGGAGCAGCAGAGCAACTGAGGAGGAGGGCGGGTGGGAGGCATGGGACTGGGGCTTGG
GGAGGTCAGGCGAGACCGGGGTGAGAGCTCAGAGAAGCTCCTGTGACTTCCATGCTAAGA
TCTTGCCAGAGAACTCTGGTCAGTCCTCGGGTGTCTGGATGAAGTAAAGGAGTTAGGCAT
TTCTTCCTTTGATTCTCTGGCTTACCT

Sequence 129

CGTCCGGCCCGCTCCGGGCGTGGGCGTGTTCTCGGCGGGCGTGCCTGGAGGAGGAGCTGG
GTCCTTGTGCGGCTGCAGAGTCAGATGGGGCGGGGATTTCGGGGCACCGGGTCCTCACCT
TCACGAGAAAGGCCCCACAGCACGTCCCCACTACCCGACGACTCACTCTTCGTGGCTTCT
CTCTCCTCCCCAAGAGCAGGGGTGGGCCTGTCTCGCGTTCCCCTGCGGGAGTCAGGAAGC
GTCCTTCCTACCTACCAGTCCTCCCCTCTGGTGTCTGGGGACACTTCCTGGGGGCCTTTC
AGGTGGTTGGCGCCGGTGCAGGGCCTGAGAGCCTGGG

Sequence 130

GCGTCCGGTGGCATCATGACTTCTGGGGCAGTAGACTGAGCAGCAACACCAGCCACAAGT
CCTACCGGCCTCTCACCGTCCTGACTTTCAGGATTAACTACTACCTCTCGGGAGGCTTCC
ACCCCGTGGGCTTTCACGTGGTCAACATCCTCCTGCACAGTGGCATCTCTGTCCTCATGG
TGGACGTCTTCTCGGTTCTGTTTGGCGGCCTGCAGTACACCAGTAAAGGCCGGAGGCTGC
ACCTCGCCCCCAGGGCGTCCCTGCTGGCCGCGCTGCTGTTTGCTGTCCATCCTGTGCACA
CCGAGTGTGTTGCTGGTGTTGTCGGCCGTGCAGACCTNCTGTGTGCCCTGTTCTTCTTGT
TATCTTTCCTTGGCTACTGNAAAGCATTTAGAGAAAGTAACAAGGAGGGAGCGCATTCTT
CCACCTTCTTGGGTGCTGCTGAGTATCTTTCTGGGAGCAGTGGNCATGCTTGTGCAAAAG
AGCAAGGGATCACTTGTGCTGGGTTTAAAATGCCGGAATTTGACAATCTTTGGGTGATAG
GC

Sequence 131

GTCCGCTGGGGGCCCTGGGGCTCTCTGCGTCGAGAGCGCTCGAAGACCCGGGATTCCTGG
CCCGATCGCGGGCGGGGGGAGACCCCAGCTCCACCCCAGCTCCCGCCGGCTCGGGGAAGG
GGCGGCCCCTTTAAGAGCGCGCGGCCCCGCCCGCCCCCTCCGGGCAGGATCCGAATTCCA
GGGAGGCGGGGCGGAGACGGCGGCGAGGAGGAGGCCGCGGCGCGGGACGCATAGAGCTGC
GGCTCGGGCGGCGCCTCCTGCGGCGGCCCGGCCCGGCTCCGGCCCCCGCTGGGGCAATGC
TCCCCGGG

Sequence 132

TCGCCNCGCGTCCGGGCACACACATGCCAGGCTATTTTAAGAACTACTACAACTATGATA
AAGCTGTGAATATGTAGCCATGAACCAAAACAAAGTCTCTGTCCTTGTGGAACATTTGTT
CTGTCAGAGAAGACAGTGTGTTGGCTCACATTGTGGTCAGTGCTGTTGAGCAAAATAGGT
CAGAGTAAGGGGGATGGAGACTGGTGGGAGGAATGCTGCTTTATCCAGGATGGGCAGGGA
GGACTCGATGGTGTCAGCACTGAAGGATGTAAGATCTGCTGCTCTGGGGAGAGGAGCAGC
ATGGAAGGAGTAGAGTGCAGAGGCCATGAGGAAGGATCAGGCTTGACTCCTTTGAGCAAG
GGGGATGGGAAGAGTGACGGNAGAAAGAGGGACAGGCCACATGGCCTGGTGGCCTGTGCT
GAGGCCTTGGGCTTTTCTTCAAGTGAGATGAGATGCCATTGGCCAGTTTGGGCAGTGATT
TNATCAGACTTGGTTCAGCAGGACCATNCTGCTTGGCAATGTGGAGAGCANGCTGAAG

Sequence 133

CGCCNCGCGTCCGAACAGGCCGGGCACCAAGGCGCAGGATTTCTATAATTGGCCTGATGA
ATCCTTTGATGAAATGGACAGTACACTAGCTGTTCAACAGTATATTCAACAGAACATAAG
AGCAGATTGCTCCAATATTGACAAAATTCTTGAACCACCTGAAGGCCAAGATGAAGGTGT
GTGGAAGTATGAACATTTAAGGCAGTTCTGCCTTGAGCTAAATGGACTTGCTGTCAAACT
TCAGAGTGAATGCCATCCAGATACTTGCACTCAAATGACAGCAACTGAACAATGGATTTT
TCTTTGTGCAGCTCATAAAACTCCAAAAGAGTGTCCTGCTATAGACTATACTAGACACAC
ACTTGATGGTGCTGCATGTCTTCTGAATAGCAATAAATATTTTCCCAGCAGGGTTAGCAT
AAAGGAATCATCTGTAGCGAACTAGGATCAGTATGCCGTAGGATTTACAGAATATTTTTC
ACATGCTTATTTTCATCATCGGCAGATATTTGGATGAATATGAAAATGAAAC

Sequence 134

TABLE 1

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GCGTCCGCGAAAGCTGGGAAGCCAGGTCTACCTGCCCCAGACGAATTGGTGTACCAGGTG
CCACAGAGCACACAAGAAGTATCAGGAGCAGGAAGGGATGGGGAATGTGATGTTTTTAAA
GAAATCCTTTGAAGATGATGCTGCTTTTTACAAAGCATCGTTTTAAAGCACATGGCCTTT
TTTTTTTTAATTATTAGTGGTAGTAATATATAGAATGTATTACATAACTGTCACTGAAGT
GGTTGGGGAAAATGTGGTGACTGAGGTACAGGAAACTACTAATCTTGCCATCTTGCTTTA
AGGTGTTATGGTGGCACAGTTACTGCTCGCCTGTTAAATTTCAAATGTCCTGTTTGATAC
TACTGGAGAACACTATTTTTAATACAGAAAAAGCTCCCTATAATGCACTTCAGAGAAATT
AA

Sequence 135

TCGACCCACGCGTCCGGGAGTCCCCCCTGCCCCCCATCAAATGCTTCCTGCAATACTTTG
CACACCAGAGACTGGGCCTCCCCAGATCCAGGGGGACAGGGGTCCCTGGGGGAGTCCCCA
GGGCCAGCCCCTCCAGGCCAGCTGCACACACTTGACACTGATTTGCACAGTCTTGCACAA
ATAGGGGGTAAGAGCCCAGTGGCTGGGGTGGGCAATGGGGGTAGCCTCTGGCCTAGGGAG
TCCCCTGGCACTGCCAATGGGCACAGTCCCGAGCACACACCCCCTGGCCCTGGACCCCCA
GGCCCCTGCCCCACCAAGCGAAGGCTGCTTCCTGCTGGAGAAGCCCCAGATGTCAGCTCT
GAGGAAGAGGGGCCAGCCCCTCGGAGGCGCCGGGGATCCCTGGGCCACCCTACTGCTGCC
AACAGTTCTGATGCCAAAGCCACACCCTTCTGGAGCCACCTGCTGCCTGGGCCCAAAGAG
CCTGTTTTGGACCCAACAGACTGCGGTCCCATGGGGCGGAGGCTGAAAGGAGCCCGTCGC
CTGAAAGCTTGAGCCCCCTTCGAAAGCCTNCGGAAGGGGCCAGGCCTGCTGAGCCCCCCC
AGT

Sequence 136

CGACCCCGCGTCCGTGAGAATTCAGCTTTGGAGTCCCGGGTGAGGGGTTTTAGATAAACC
CATCAATATCACCCACATTCTGTGACTCTTTGCATCACTCGTGTTATTTATTTATTTATT
TATATTCTGCCTTGTTCCAGAAAAGTGTTTAAGGCAACAACGCTTGTTTTTTGGTGTTTT
CTTTTGACATTTGAAAATTTAGTACATTGTTAAAATGTACTTGTTAAACAGGTAATTTTA
AAGAGAAGGAACAATTGTTTTTAGTAAGTTTTCTTTTTCCTTTTTCAATGAATTGATTCT
TCAAATTAAAAGTTCTTGAGAGAAGGAGAGGAAGATACAGCAGACATAGGACTGAGCCAA
GGAAGAGTCTGCCTGAGAGAGACGCTTGGCCTGTGCTTTGCTGCCATCCGTGCGGCCTTG
GCCACA

Sequence 137

TCCGATTTTTAAATCTATTGGCCGTGTTGTCCTACCTGAAGTTCTTCAACTGCCAAAAGC
ACAGCCCTTTTTCTCTGAGCTGGTGGTTCTGGCTAACACTGACAGGGGTCGCTTGTTCCT
GTGCAGTGGGCATCAAGTACATGGGTGTGTTCACGTACGTGCTCGTGCTGGGTGTTGCAG
CTGTCCATGCCTGGCACCTGCTTGGAGACCAGACTTTGTCCAATGTAGGTGCTGATGTCC
AGTGCTGCATGAGGCCGGCCTGTATGGGGCAGATGCGGATGTCACAGGGGGTCTGTGTGT
TCTGTCACTTGCTCGCCCGAGCAGTGGCTTTGCTGGTCATCCCGGTCGTCCTGTACTTAC
TGTTCTTCTACGTCCACTTGATTCTAGTCTTCCGCTCTGGGCCCCACGACCAA

Sequence 138

CGACCNCGCGTCCGGAAGGACCCTCTGAGCTATTTTGCGGCATACGGGAGCAGCAGCTCA
GGCTCCTCGGACGAGGAGGATAACATCGAGCCGGAGGAGACGAGTCGCAGAACCCCGGAT
CCGGCGAAGTCGGCGGGCGGCTGTAGGAACAAGGCGGAGAAGCGGCTCCCGGGACCTGAC
GAGCTGTTTAGGAGCGTGACTCGCCCGGCCTTTCTCTACAATCCGCTCAACAAACAGATA
GACTGGGAGAGGCACGTCGTCAAGGCGCCTGAGGAGCCTCCAAAGGAATTCAAAATATGG
AAGTCAAATTATGTACCACCTCCTGAGACCTACACCACTGAGAAGAAGCCTCCGCCTCCA
GAGCTTTGACATGGCAATAAAATGGTCTAACATATATTGAGGACAATGGTGATGATGCTC
CACAGAATGCTAAAGAAAGCTAAGGCTTNTACCA

Sequence 139

CGACCACGCGTCCGGGCTGGCGAGCCCGGCTGAGGAGCCTCTTGGGTCGCACTTACCGCC
GCGTCCGCTCCCGGTCCCTGGCCCCTCAGCGGCATGGCGTGCGGGGCGACGCTGAAGCGG
CCCATGGAGTTCGAGGCGGCGCTGCTGAGCCCC

Sequence 140

TABLE 1
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CGTGTCCGGTGAATGGGAGCGGAACTCACAGGACACAATGAGCCGGGTCACTGATGGCCT
TGCTTTCTAAGAATCTCACAGTGAGCCCTAGAACTCTCTACGTGGTAACACTGTGTGCCT
TTTTCAGAGAAGAGCCTATCTTAGATCTTAGCCTAACGTTGGGTCTATTGTGTTGCTGGA
GAGACCAGCACTGACATTCATCTCAAAGCACATGGTATGTTTGACTCCTATGTTGACTCA
ACTACCCATCTTGTACTGGGACACTCGCTTTTTTTTTTTTTTTTTGAGACGGAGTCTTGC
TCTGTCACCGGGCTGGAGTGCAGTGGCACGATCTCGGCTCGCGGCAGCCTCCGCCTCCCG
GGTTCAAGTGATTCTTCTGCCTCAGCCTCCTGAGCATGTGGAGCTCAGGCTGAAGGTGAT
GTGGCCGCCC

Sequence 141

GTCCGATTGATTCTTCTATGATGCGTGTTCATTATACAATACACATTCTCGGAAAGGCAG
AATTATTTGCTTTTATGATTGTTTTTTGTGACCTAAGAAACGGTTCTTCCCCCATTTTCC
TATCCCAGGCCAAAAAATATTCTCTCACGTTTTTCTGTAAGAGCTTTATAAGTTCAGCTT
TTATATTGAGGTCTGTGATTCATCTTGGATTATTATGTGTAGGTTGTAAAATAGGAATCT
AGGTCCAGTTTTTCCATGTGGATATTCAGTTATTGTGGGGCCAATTGTTGAAAAGTCTCC
CCAAAGAACTGCTTTCTTATCAGAAAGATAAGATATATTAAAAGTGTATATCTAAGTCTG
GGTTCTCTTTTCTGTTCTAATGGTTGATATTTTTATCCTTATGCCAGAACCACACTGTCA
TGATTGCTGTAGCTTTATAATAGTCTTGAATCAAGTTGCTTTTCAGTTTTGTATTTTTCA
AAATTGCTTTCGGTATTCTAAGTCCTTTGCATTTCTGCTAAAATTTAGAAGCAGCATGTC
TACCAAAAGGAAAAAAAAAGCC

Sequence 142

TCCGGCGGAAGAAGGTGCGTCCGCGGCTGATCGCGGAGCTGGCCCGCCGCGTGCGCGCCC
TGCGGGAGCAACTGAACAGGCCGCGCGACTCCCAGCTCTACGCGGTGGACTACGAGACCT
TGACGCGGCCGTTCTCTGGACGCCGGCTGCCGGTCCGGGCCTGGGCCGACGTGCGCCGCG
AGAGCCGCCTCTTGCAGCTGCTCGGCCGCCTCCCGCTCTTCGGCCTGGGCCGCCTGGTCA
CGCGCAAGTCCTGGCTGTGGCAGCACGACGAGCCGTGCTACTGGCGCCTCACGCGGGTGC
GGCCCGACTACACGGCGCAGGTGCGTGCACCCCGTCCGCACCCCGCCCCTGCAGCCGCCT
GGTCTCCCCGCCTCCCCTCCTCCCTGCAGGTTTGCGTGGCTGAGGCTCCCACCTCCTGAC
CTCGGGGGCCGAGAGCTTTGCGAGCTGACCCCGCTTCTTCTGGCTTTGCAGAACTTGGAC
CACGGGAAGGCCTGGGGCATCCTGACCTTCA

Sequence 143

CCCGCGTCCGAGATCCTGTAGGTGAAGTTCTCCTGTGCTCCACAGCCACCCAGAGGAATT
CCAAAACCAGCAGTGGAGGACTTGGGGAGGACAGGAGGGAAAACATGGCGAGTTCATCAG
CTCTGTTTCCTTTATTAAAATATTTCTGTAATTGGTGGTGGGAAATTGAAGAAATCAAGT
GATTGCATCAGCGCTGGAAAAAGCTGCCAGCACTTGGCAGTGGAAGAGAATATATGCTTT
ATACTGGACTTTTTGAAAAAGAGGCTGAGTTTGGCCAGATTGCCGACCAGCAATGGAAAA
ACTAATTAGGTGCCTTGCCTGTGAGCCAGACGCCCAGCAGGGCTGTGGCGCATGGCTCCC
GCCGCCTCTGAAGAGGACACTTTCTAGTGAATTCAGTTCGTGCTACCCTTGAGCAGCCTG
TGCTACAGCAGGCACATTTGTGAATCTCCCAGCCTGTGCCTGGCGTCNGAACTGTAGCTT
CCCAAAGAC

Sequence 144

CGCGTCCGAGTAAATCTGTTCTGCACTAAATTATATCAAAATAAATATAAATAATTATTT
CGTATACCATTCGTTATATACATTTCAGTGTTTTTAATAATGTCAATTTCTTATATTTTA
AGGAGAACTCTAGTTATTTTTATAAATCTAATTGACTTAATTTTGTGGGAATATAAAAGA
AGTGATTAAAAACCTTTGGTTTAAAGTAGTTAATCCTGAAATCAAGCTCTGTAAATATTG
TGTAGGGATATGGAGAAATCCTCAAAAAGAAAGAGCTAAAGAAAATGGCAGGGATGGCAT
CTTGGGAGTATAACTGAAAGTAGGAAGATGTGGATAGAAGAGTCTTATTTTTAATCACAG
GGCATATGTGCTATTTGAATTATTTTGACAAAAGTATAAAAATATGGAATTATGCATTGT
GTGTGTGTGTGGTTTCATCTGTTTAAGAAATATGTGATGGAGACTGTCCTATCATCAGGA
AATTATTCCAGT

Sequence 145

GTCGACCNCGCGTCCGCGGAGACACCGACCGCGGCGGCAGCAGCAGCAGCAGCGAGA

TABLE 1

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GGCAGAGGCGGCGGCGGCGGGGAGGACAGCACGGCCGAGGCTGCCCAGAGGCGCCTCCTC
CACACCCCCCGCCGCAGCAGCACCGGCGACAGATTTTTTAAAAAATGGATTTGGCCAACC
ATGGACTTATTCTACTGCAACAGTTAAACGCTCAGCGAGAGTTTGGTTTCCTGTGTGACT
GCACGGTTGCAATCGGCGATGTATACTTCAAGGCACACAAATCAGTTCTTGCTTCATTCT
CCAATTACTTTAA

Sequence 146

CCACGCGTCCGATCCTCCCCAAGGCAGAGGTGTGCGTGCGGAACCATGTCCAGCCCTACA
TCCCATCCATCCTGGAGGCCCTGATGGTCCCCACCAGCCAGGGCTTCACTGAGGTGCGAG
ATGTCTTCTTCAAGGAGGTCACGGACATGAACCTGAACGTCATCAACGAGGGCGGCATTG
ACAAGCTGGGCGAGTACATGGAGAAGCTGTCCCGGCTGGCGTACCACCCCCTGAAGATGC
AGAGCTGCTATGAGAAGATGGAGTCGCTGCGACTGGACGGGCTGCAGCAGCGATTTGATG
TGTCCAGCACGTCCGTGTTCAAGCAGCGAGCCCAGATCCACATGCGGGAGCAAATGGACA
ATGCCGTGTATACGTTCGAGACCCTCCTGCACCAGGAGCTGGGGAAGGGGCCCACCAAGG
AGGAGCTGTGCAAGTCCATCCAGCGGGTCCTGGAGCGGGTGCTGAAGAAA

Sequence 147

NACCACGCGTCCGCCNCGCGTCCGCTTGCACCCGGTGAAGAGCGTGCGTGTGCTGAGGCC
GGAGCCGCAGACGGCTGTGGGGCCCTCGCACCCCGCCTGGGTGCCCGCGCCTGCCCCGGC
CCCCGCCCNCGNCCNCGCCCCCGNCCNNGCTGCGGAGGGCTTGGACGCCAAGGAGGANCA
TGCCCTGGCGCTGGNCGGCACAGGCGCCTTCCCGNTGGACGTGGAGTAC

Sequence 148

TCCCAAGAGCTGCANGNNNCAGCCGCGACAGCAAGAACCGGNAGAGCCGGCAGACCGCGG
CGGCGGCGGCGNCGGAGGCAGGAGCAGCCTGGGCGGGACGCAGGGNCTCCGCGGGCGCAG
GAAGGCGAGCAAGAGATATNCTCTGAGAGCCAAGCAAAAGAACATTAANGGAAAGGGAAG
GAGGAAANGAAGGCTGGATACCGGNGCAGTGAAAAAAGGCACTTCCAAGAGNTGGGGGCA
CTCAACTACGCCACNAGACTCTGACCGGGTGGCCCAATCAAGCCAATGAAGAAACCTATA
ACCCGGNTTAACCTNTNATTGGCCTGCCTTCTNNNTNGGGGGGTGGGGGCCCAAGCCCNC
TTAACCCCCCAACCTTCNNTTTCAAACCTATCCCAACCTTATTCNAAAANGAAGGGGANC
CTNAAGGATGGGGNTTTCCCCCAAGGCNAAAAAGGAAAAAAAGGGGGCCCCCNNGGGAAG
CCTTCNTTCTTGGGGAAAAACAAGGCAAAAAAAATTGGAAGCCTGAAAACCCGGCTTCAA
AAAAAAGGGG

Sequence 149

GGCCGAAAGGGGGGCAGGTGGTCGGGCCGCGCAAGCGGAGATGGAATGGGGCCCGGGCTC
AGACTGGTCACGGGGGGAGGCTGCCGGCGTGGACCGCGGGAAGGCGGGGCTGGGGCTCGG
CGGGAGGCCACCCCCACAGCCGCCCCGGGAGGAGCGCGCCCAGCAGCTGCTGGACGCGGT
GGAGCAGCGGCAGCGGCAGCTCCTGGACACCATCGCAGCCTGCGAGGAGATGTTACGGCA
GCTGGGCCGCCGGCGCCCGGAGCCGGCTGGTGGCGGGAACGTCTCANCCAAACCTGGAGC
G

Sequence 150

CACGCGTCCGGCCTGCTGTTNACCTGCGGGACCCCAGGAACCTGGACTTGTTTCTCAAAG
TGGTTCATGGAGATGTCACCCCCTACGACCTGGTGCGGATGAGCTCGATGCAGCTGGCCC
CCCAGGAGCTGGCCCGCTGGCGGGACCAGGAGGAGAAAAGGGGCCTGAATATCATTGAGC
AGCAACAGAAGGAGCCGTGCAGACTTCCAGCCTNCAAAATGACCCACAAGGGCGAAGTGG
AGATTCAGCGGGACATGGACCAGACACTGACCCTGGAGGATCTGGTGGGACCGCAGATGT
TCATGGACTGCAGCCCACAGGCCCTGCCCATCGCATCAGAGGACACCACGGGGCAAGCAT
GACCACCACTTCTTAGACCCCAACTGCCACATCTGCAAGGACTGG

Sequence 151

TTTTTCCTTAGAATCTTCGAGAAAAAGATGAAGGTATTATTCTCAGTTTCGAGATCAGGA
CTCCTCACCACCAGGCGGGGGCTTTAAGGTAGACACTACAGGGAATCTGATCTCAGGGTG
ATCCTCTCCCTTCCACTTGCAAAAAGAGAGGAGCAGGTGGGCCACTGCTCTCTGAGATGT
TAACACCCCTCACACTCCACGGGCATGCTTTGTCATTCTGCACACCGGTGTAGCTGCAGC
TCTGTGTGAATTCAGATCTCAAGAGAAATGTAAATCAAAAGTATGAGTTTCTTTCTTTCT

TABLE 1

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TGGGTGCCACAGTAGGAATGAAATGATGGGGACTTTTGGAAGCCCCTGGACTTGTGGCCC
CTGTAGAAGAGCAGCTTGGGCAGGGTGTGATGGCCATCTCTGTCTCTAGGGGCCCTGTGG
A

Sequence 152

TGGCGAGAGCGCTGGTGCCGAGTGAAAGATAACAAGCTCATTTTCCACAAGGACAGGACC
GACCTGAAGACCCATATTGTGTCTATTCCGCTCCGTGGCTGCGAGGTGATCCCGGGTTTG
GATTGTAAACATCCTCTGACGTTCCGGCTGCTGCGCAACGGCCAGGAGGTTGCAGTATTG
GAGGCATCTTCTTCTGAAGACATGGGCAGGTGGATTGGGGATTTTACTCGCAGAGACGGG
GATCGTCCACAGACCCGGAGGCTCTGCACTATGACTACATTGATGTGGAAGATGTCTGCA
ANGTGTCATTCAGACAGGCCAAACAGACCTTTCTGTTTTTATGAACAGGGCGTGTTATAT
CTGCTAACCCATATCTAGGGGGCACCTTCAACGGGTTATTGCCCACCCAGCGGGACGGCA
CTTTAATATGACGATGTTTCCGTNCCATAAACCGGNTTGNTTAAAGGGTAAAA

Sequence 153

GTTCGACCCACGGGCGTCCGCGGGACCGCCGTGGGNNNNACATACTATGCGNACAGGCGC
GTTGNACACAAANGGCCCATTCCTGTAGCCTCACACTTGACTACACATGGGGGANTCACT
CGGATTCGGNTCTCCACGTGGNNGNTCTTTGTTCTGTACTCTACGTAGCTTTGGCTTTTG
TTTTCTCGTCGCAACAGGGCATGAGACTTCGTCGACCTTNGGGGTCTGTATAGTCTTTGA
CTTACTACGTGTAGGTCTCAATACAAAGTGGGANATANTCATATCCGTCCGCGAAAAGTA
ATTCTTGGAAAAATTTACCCTTGTCTCCCGCNTTATGAAACGTGAACTAAGTAACTCACT
TTGCCCCTGGGGCGCCTCTNTTTAACANTGTTCTTTTGNCGAAATCATCATAACCTTCAA
CTGAAAACAATGTGGTCAACAAACTGACTATGGAGGTCTTAGGCTCNGTCTCTAAGATCT
TTAACCTTGTTTATCGGCGCGTGCGGCGTNGTCCGAACGAAGAGACTATAACCCGCACTA
TAACNAAAACTCTTTTTTAATCCCACCACCTCGTGAGGGANGGGCCCTAAGACTGAAACT
GTAGTAAGTCCTATTGATTTGCGTAGGAGGANTTAGGAAA

Sequence 154

NCGCGTCCGATAGTCTACCAGCCTTACCTGGTTGATTACACTTGTAAAAGAAAGATTAAA
AGCAGGCCAGTGACTCTGGTCTGCTTGAACATGTGAATGTAGTGGTTTGAGCAATCTGGA
GTTTGCCCTAGTGTCAAATTCCAGACTGTCCATAGTGTCCAAAACCTGAGGCAGACACTA
ATGTTAACCCCCAGCACCCCGTGATTGGAAACAAACCTAAATACGTATTGGGAACTTAAT
AGCAATTTTAAGCATTCTGATAGATTTTTTGTAGGGATGGGGTCATGCCATGTGGCCCAG
GCTGGTCTGAAAACTCTGGCCTCAAGTGATCTCAAGCTTTGGCCTTCTAAAGTGTTGGGA
TTACAAGGTGTGAGGCATTGCACCTGGCTTAGCCGTCTTGATTTGACATTGTAATGAAAA
AGTGTGAGTCTTATTCTACCAGGGGCCCTTTTTTGTCCTCTTGAAAATNGAATAACCANG
GGAAGGGGGAA

Sequence 155

CCNCGCGTCCGTCCATCACAGCCTCCGAAGGTGCTGGGATTACACGGCATAAGCCACTGT
GCCCAGCCTGTTTTTAATAATGATATTAAGTGGGTTTGGTTCATGTGTTATTAATCAGTG
TTAATAATCGTACTTTTTTTTTTTTTTTTAAAAGAAACCATGGGTATTCTAAAATCAGGAG
TCCAAATAAAAGAAAGTTCTCGGCTGTGCGTGGTGGCTAACACCTTGTAGTCCCGGCACT
TTGGGG

Sequence 156

CGCGTCCGAAAGGAGTCGCGCCGCCGCCGCCGCCCCCTCCCTCCGGTGGGCCCGGGAGGT
AGAGAAAGTCAGTGCCACAGCCCGACCGCGCTGCTCTGAGCCCTGGGCACGCGGAACGGG
AGGGAGTCTGAGGGTTGGGGACCGTCTGTGAGGGAGGGGAACAGCCGCTCGAGCCTGGGG
CGGGCGGACCGGACTGGGGCCGGGGTAGGCTCTGGAAAGGGCCCGGGAGAGAGGTGGCGT
TGGTCAGAACCTGAGAAACAGCCGAGAGGTTTTCCACCGAGGCCCGCGCTTGAGGGATCT
GAAGAGGTTCCTAGAAGAGGGTGTTCCCTCTTTCGGGGGTCCTCACCAGAAGAGGTTCTT
GGGGGTCGCCCTTCTGAGGAGGCTGCGGCTAACAGGGCCCAGAACTGCCATTGGATGTCC
AGAATCCCCTGTAGTTGATAATGTTGGGAATAAAGCTCTGCACTTTCTTTTGGCATTTCA
AGTTGTTAAAAACAAATAGGA

Sequence 157

TABLE 1

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CGCGTCCGGGTGTCNAGGCCATGGGGCAGCCCTGGGCGGCTGGGAAGCACGGACGGGGCG
CCCGCGCAGCTGCCTCTCGTGCTCACCGCGCTGTGGGCCGCGGCCGTGGGCCTGGAGCTG
GCTTACGTGCTGGTGCTCGGTCCCGGGCCGCCGCCGCTGGGACCCCTGGCCCGGGCCTTG
CAAGCTGGCGCTGGCCGCCTTCCAGCTGCTCAACCTGCTGGGCAACGTGGGGCTCTTCCT
GCGCTCGGATCCCAGCATCCGTGGCGTGATGCTGGCCGGCCGCGGTCTGGGCCAGGGCTG
GGCTTACTGCTACCAATGCCAAAGCCAGGTGCCGCCACGCAGCGGACACTGCTCTGCCTG
CCGCGTCTGCATCCTGCGTCGGGACCACCACTGCCGCCTGCTGGGCCGNTGCGTGGGCTT
NGGCAACTACCGGCCCTTC

Sequence 158

CGACCACGCGTCCGGGGACTCAGGCATGCACCACCACGCCCAGCTAATTTTTGTATTTTT
AGTAGAGACAGGGTTTCTCCATGTTGGCCAGGCTGGTCTCGAACTCCTGACATTCGGTGA
TCCACCCGCCTCGGCCTTCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGTGCCCAGCC
CCTTCCTGTTGAGTAAAAGGAAGAACTTCAGGGTAAGACACTGTACAGTGCCCAGCATCT
GGAGAGCCGCCAGCATTACCCCTGCCTTAGGAGGTAGTCGTCTCCTCATCACTACAAGGT
ATTGAAGCCTGAGGGCCCCTGGGCAGGACGATAGAGTGAGATTGCCCTGGGGACTCAGGA
AAGGAAACATGCCGTATTTNTAGGGAAGGAGCTGCTGCTGCCTCTCAGTGACTCTGGTTC
CAGGAGGGAAGAGCCGAGAGCTAGGGTTCCCTTTCATAGGGAGAAACCCAGCAGGGTTTG
GGGTGTTCT

Sequence 159

ACCACGCGTCCGAAAGGAGTCGCGCCGCCGCCGCCGCCCCCTCCCTCCGGTGGGCCCGGG
AGGTAGAGAAAGTCAGTGCCACAGCCCGACCGCGCTGCTCTGAGCCCTGGGCACGCGGAA
CGGGAGGGAGTCTGAGGGTTGGGGACGTCTGTGAGGGAGGGGAACAGCCCGCTCGAGCCT
GGGGCGGCGGACCGGACTGGGGCCGGGGTAGGCTCTGGAAAGGGCCCGGGAGAGAGGTGG
CGTTGGTCAGAACCTGAGAAACAGCCGAGAGGTTTTCCACCCGAGGCCCGCGCTTGAGGG
ATCTGAAAGAGGTTTCCTAGAAAAAGGGGTGTTTCCTCTTTTCGGGGGGTCCCTCACCAA
GAAGAAGGTTCTTTGGGGGGTCGCCCTTNTTGAGGGAGGCTTGCGGNTTAACAGGGCCAA
AAAANTTGCCATGGGATGTCCAAGAATCCCCTGTAATTTGATTAAATGGTGGGGAAATAA
AGCTTTGCAACTTTTTTTTGCNATTTAATTTGGTTAAAAACA

Sequence 160

TCCGCTCCCCTGTTTTCTTCCTTTTTCTTTTTGCTTGTATGCACAACGGTAGGACTTACT
TCGTAAGAAACAAAATGCCAGTATTTTCTTAAGCCATGATGTGAAACCAATGACCCTGTG
ACCACATGGCACAGAACACTAAATTTTGGTCCCATGGCTGAAACTTGAGGGTGACTAAAA
GTAATGCCTGTGAAACATGATATCTATCTGGGATGGCCATTTGATCTCTAAAAGGAATTT
TGTNCACTCCACAGAACTCCTATCTATAGTAAAATTTGATTTTTC

Sequence 161

CGTCCGGAAAAATATTAAACAACTCATTTTAAGATTCAAATTAACTAATTCCTGCATATA
TGACATTCCTTACATAAGCGAACACTAAACAAAAATGGCTAGAAATGTCTTTTTCTTTCT
TTTCTCTCTTTGTTGTTTAAGGTATTAAGCACCGAATTATTACATGAGACTGGCAGATAG
CTATTAATCCTCTTACAGATTTGAGAAAGTTGATTCTCAAATATTTATGCACCTTCTCCT
TCATTGTTTTCTTTAAATCTGTCCTCTTAAAAAGCTTCTTAAGAGCTCAGTTAATGCTTT
TGACTTAACTAGGAGAAAAAGGCATGATAATACAGGCAAGATGGCATTGTTAGCAATTCT
GGTAGGTGGTTTTGGAATGAATCCTAAGAGGCAAGGGGATCTTAAGGACAAGGAAGAGAA
GAGAGAGGGGGNGGGATCCCTTTGATCTCTTTCTCTGGNAATCTTAAATGCNTAATTTTA
CTAAAACATGTTCTCAATTCATTCATAT

Sequence 162

CCCCGCGTCCGGATTAATGAGTGTATGCCTAGCTCTTTCTCCAGTTTACTTTTAGACCAT
ATTGTTGTTTGTTTTGAATATCATTCCTTAGGCTATGTTGAGAGTAGAGTGGCTTCCCAT
TAGGAGAACTAATTTAGGGCATGTCTTTTGCTGAATCCCGTCAGCATATTTAACAAATTC
CCAATTCTAGATAATTTCCTTTTATTTCTCTAGTACCCTTTGCCAGGGGCTCTACACATC
AAAGGTGTTCATGAAGTATTTGTCAAAGGAAAGAACAGTAATGACACCTAACACATAATG
AGTGATTAGTATGTTCCAGGCATTGCGTGAGCTATTTACTGTGAGTGATTTAATGTTATC

TABLE 1

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TTCCCAGCAGACCTCTGAGGTAGGGTACTAGTATGATCCCCATTTCGTACATGAGGAAAC
TGACACTAAGGGACATAAAATAAGTTTTTGAAGTCACAAAGTGAATAAAAGGAAGACCAG
GGTTTTAATTGGAAGCCCATA

Sequence 163

TAGACTTTTGCAGTGTTAAACACAGCTTCCTTAACTCTTAGAACTGGAAGTTGTAGAGCT
CTCCTTTTGGTGCCTTTCCAGCCTTTATACACACTATTGTAGCTTTCTTAGGTTTGATAG
GTAGCGTTTCAAGTAGTTTAGCTGAGACAGNGAATGTATTAGGTTCAACATGACCTTGTG
TTTTATTTGTGTTTGCCAACAGGATGCCTTATTTGTTTGAGAAAAAGATGTACTAGTGTC
ATTCTAAACTATCTCCTTTTTTAGGATTCTAAAGAAGTTAATCATCATCCTTTTGTTTAT
TTTACCACCATTTAGTGCCTTAAATCCTATCAAGAAAGCAGTGTTACTGCTCAATGCCCA
AATAAGACACGCGGATATTGCTATTGCTTGCTTTTGAGTTAACAGGCCNACTTTTTATAC
TTAAAACCTCA

Sequence 164

GCCCCGAAGTCCCACTGTCCCTGCCGAGGCGCCGGCGCCGTCCCCTGTGCCCTTGACCAC
GCCAGCCTCCGCCGAGGAGGCGATACCCCTCCCCGCGTCCTCCGACAGCGAGCGGTCGGC
GTCCAGCGTGGAGGGGCCCGGAGGGGCTCTGTACGCGCGCGTGGCCCGACGCGAGGCCCG
GCCGGCCCGGGCCCGGGGCGAGATTGGGGGCCTGTCGCTGTCGCCATCGCCCGAGCGCAG
GAAACCGCCGCCACCTGACCCCGCCACCAAGCCTAAGGTGTCCTGGATCCACGGCAAGCA
CAGCGCCGCTGCAGCTGGCCGTGCGCCCTCACCACCGCCGCCAGGCTCCGAGGCCGCGCC
CAGCCCCAGCAAGAGGAAACGGACGCCCAGCGAACAAATCGGCGCATACGGTCGAACACN
GGAAGCCCCCGGACCCGGACCCAACGCCGGGGCCCCCCG

Sequence 165

AGTCCGCCCCACGCGTCCGGTGAGTTTAGCGCTGCTGTCCGGATGGGTTGGTAGCAGACA
GGGTGGAGTAGGGTTAAGCACACTGGTCACCTTAGGATTGGTTTCCTGGTGCTGGAGAAT
GGTTAGGACACAGGCCTTGGAAGGTTTTTTGAGTGTGAAATATTACTCAGCGTTTTCTGC
AGACCTCGCGGGCAATGCCGCTTCTAATTTTATCCAGGCCTTCTTCTGTAGGGAGGGCCT
GTTAAGAGTTGAGCAGCCCGATTTCTGAACCCCTCTAAAAAGCTGTGGCTGATTGGTGGC
TTTTTTTTTTCTTGGAGAGGGGGGTGTCAAAGATTTCTTTAAAATCGTTAGTGATGTGGT
CTCGCTTTA

Sequence 166

ACGCGTCCNAAAATGTGTGGTACATGGAATATTTTTTATTATGCTTATTTCGTATTGCCA
GGTAGATGGCCAGCCTGACATTCAAAATTATTTTATCAGCCCCTAAATGTTAATATTTCC
CAAACTATTTAAATCAGTAGAAGACATTTTTACTATTAAGAATAAAAAGTTATAATATAA
AATGGATTAAATGCCAGATTATATGCTAAACAAGTCCTTTAAATTTTTAACTTAATATTT
TTAACAGATTTTTTTTTTGAGATGCAGTTTTACTCTTGTTGCCCAGGCTGGAGTGCAATG
GCACAATCTTGGCTCACTGCAACCACCACCTCCCGGGTTCATGCGATTCTCCTGC

Sequence 167

CCGTCCGCGAGGTTAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCCATCTCTA
CTAAAAATACAAAAAAAATTAGCCAGACATGGTGGCAGCCTCCTGTAGTCCCAGCTACTC
GGGAGGCTGAGGCAGGAGAAGGGCATGAACCTGGCAGGCGGAGCTTGCAGTGAGCCCAAG
ATGGCGTCACTGCACTCCAGCCTGAGGGACAGAGCAAGACTCTGTCTCAAAAAAAAAAGA
AAAAAAAGTGGCACAGATCAATTATAAATCACTGCTTCAAGGCCAGTGCTCTCACTTTGT
ACATTAATAATCTCAGGCCCAAATAAGATAAGTGATATGTCAACGTATGTTCACTTTGGT
CTTTACATGGCAGCTATAGTATACCGGAATATTATAAGCTCAGATCGTCATAGCTACATA
ACTCCTTTAGTTGGGAAGANACGCCGTAAATGCCCATCAAGANTAGCAAGTCTTGCATTT
GACT

Sequence 168

CGCGTCCNGGTAACTTGAATAAGGATTATGTGCCCCACCCTTACTCTCATTCCTGCTTCC
TCTTGGGCTCAAACAGGGTATGAGTATGAAGATTTTGCCTTTAGTTCCTGAACTGAACCT
GCTTGCTATCCCTTTCCTCCCCACCACTACCTTATTCCTTCTCTGCCTCCAAATTGCCAC
TTTGTTTTGAGGCTTCCTTCCCTACCTTATTATTCTGAAGGAAGTAGAGATCTTGCTTCT

TABLE 1

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GAAACCCCTCCTAAGAAACTGCCCAGGGACAAGATAAATTACAAACAATTCATGGGAGTT
TACTACCTAAGTTGCTTCTAGGGCATATGTATACCATACTAGTAGTCTAGATTTCTGG
Sequence 169
AGGGAGTCGCCCCCGCGTCCGGACAGGATCTATGGATGGAAGAAGATGAAAACAAACACA
CAGCCATAAAGGTAATTGTTTCTGGCCAACATCTTTCTACTGATGCTTTGTTTTGATTGT
ATGTTGCTGTTTATATTTTCTCAAACTTGAGGCTCTATTTTATGAAATGTTGAATATAAA
TACATTGTATTTAACTTGAAAAATTCCTGGAAATATACCTGATAATTACCACCTGAGGAA
TCGNTTTATTTTATGAAAGTAACAGCGTGATGAATACTGTAATTACAAAAGAAAATTAGT
ACTCACTGACTTATACCCTTGTTTTTTTTTTTTTTTGGTTTGGTTTTTTTTGGTTTTGN
TTTAGGNGACA
Sequence 170
GGAGTCGNCCCACGCGTCCGGCTGGCCAGCAGACCCTGCAGCAGTCATTGGTGGTTCTGT
CTTTCCCTAACCCTTATGNGCTGGAGGACAGAGGAGCCACCTCTTCTCACTGGTTGATAC
TCTGTTCCTAAGACCTCAGGTTACCCAGTGTAGCCTGCTGTGACCCTTCTGCTTCATTTT
CTGCCAAGTGATACAGAACCTTCGTTCTGCTGCTTTGGGGACAGGTGATCCTAGCCCCAG
CTTAGGGCCAGTGCTCTGTGCCACTCTGGAGAAATAGGGAAAAGATAGGGGTGGCTCAGT
ACAGCAGCCCTGTGAAAGTCAAGGCCAGAGCTTTTCTTTTTTAATTTTTTTATTATTATT
ATTATTATTT
Sequence 171
TTTAGGGAGCCGACCCACGCGTCCGCTTGGCAAACCTCCGGGGACTGTCAGAGGAGGAGA
GGAGCGAGAAGGCTATGCTTCGCTCCCGCATTGAAGAGCAGTCCCAGCTCATCTGCATCC
TGAAGCGGAGGTCAGATGAGGCCCTGGAGCGCTGCCAGATCCTAGAGCTGCTCAATGCAG
AGCTGGAGGAGAAGATGATGCAGGAGGCTGAGAAGCTCAAGGCCCAGGGTGAGTACAGTC
GGAAACTAGAGGAACGCTTTATGACCCTAGCAGCCAACCACGAGTTGATGCTCCGCTTCA
AGGATGAATACAAGAGTGAGAACATCAAGCTGAGGGAGGAGAATGAGAAGCTGAGGCTGG
AGAATAGCAGCCTCT
Sequence 172
CCACGCGTCCGCTTAGCCGCTGCCAGAGTTCCATATGTTCTGGAACCCTTGACTCCTAGA
GTTCAGAACCCAGCCAACTTGCAGTTTTCAGAATGTTCAAGAAACTTCTGACACTCAGAG
TTGCAGAACCTCCTGGTCCCTGCAGATTCCTGGAAATCAGAATATGGTGGTTGNAAAGAA
TCTTGTGGCTGGGCGTGGTGGCTCACGCCTGTAATCCCAGCACTCTGGGAGGCCGAGGCG
GGCAGATCGCCTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGCGAAATCCCGTC
TCTACTGAAGATAACAAAAATTAGCCGGTCATGGTGGCGCCCGTGCCTGTAATCCCAGCT
CGGCAGGGCCGAGGCAGGAGAATCGCTTGAACCCGGGAGGCAAGAGGTTTGCAAGTGAGC
CNAAAGATCGAGCCACTGCACTCCACCTTGGGTGACCAGAGTCTTAAAAAAAAAAAAAAA
AAGG
Sequence 173
CGTNCGGTGAATATTCAGTAAGCTAATTAAAATTTGTAAGTAAGATTTCCTTATTAAAAA
AACTATTAAAATAAGANGAAGCCCGTTNAAATAATNATTAGAGNNGGAAAAAAGAAGATG
ACTATCNAATTACAGCACTTTTTTTCAGCTATACATAAAGGCCTTTTCANT
Sequence 174
CGTCCGGTGACCCATTAAGTATATTTCGTGACCCANAGTTTGAAAGAGATTATAGGTGTA
GCTTTGCTAGTTTGTAATTGATATAGAACAGTGACTATCAGGGAAGNTGAAGAACGGCNA
ATTGAATGTAAATCATGTCTGGATGGTGAAGATTCTAAGAATGCANCTAGGGAAAGGGCT
GCAAAAAGAAGGTGGCAGACTAATGTAGAATGGTGCAACCAGATGAAGACATGGGTGGCT
TTAGGAATTCCAAAGTGGCCGTGAAGGCCAGGCACGGTGGCCCACGCCTGTAATNCTAGC
ACTTTGGGAGGCCAAGGTGGGTGGATTGCTGAGCTCGGGAGTTCGAGACCAGCCTGACCA
ACCAGGTGAAACACCATCCCTACAAAACAT
Sequence 175
GGCGGCGGCGGCGGCGGCGGCCGGGACCCAGCGGGCCAGGTGGGGACGGCGCGTNGCGGG
TGCGGGAGATGCCGTGCGGGACTGGGGCCACNTTGAGCCGCCCGNCTCGTCCCCGCCTTC

TABLE 1

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TGTGGGAAGGATGTGCGCGCGGATGGCCGGTCGCACAACAGCGGCCCCTCGGGGGCCCTA
CGGCCCCTGGCTCTGCCTCCTGGTGGCCCTCGCCCTGGACGTCGTGAGAGTGGACTGTGG
CCAGGCTCCCCTGGACCCTGTC

Sequence 176

GAGCTGGCTGGTGTTTGAGCTGTGGCAGAAGCACCTGGGGCTCCAGGGAAGCANGCTGGG
AACTGCAGGACCTTGCTCAGCCAGGAGCACTTCCCCCTCCTTGAGGCAGGAATACTGAGG
TGCCTCCCCACAGATGGAGAANGTGGAGAGGAGGATGGGCCTCAGGAGCATCTCAAGCCC
CAGTAGCAGGANAAAGAAAGAAAGAGATGCCTGGTTTTCACAGACTGGTTCCTGTGGCTG
GGATGACTGCATCCTTTTTTTTTTTTTTTTGAGACGGAGTTTTTGCCTTTGTCGCCCAGG
CTGGAGTGCAATGGGGTGATCTCGGATCACCGGAACCTCCGCCTCCNGGATTCAAGCAAT
TNTCCCGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACGCACCTCCACCGTNCGGCT
AATTTTGTA

Sequence 177

CCTTGTNAGGGGACACAAAGAAAAATTGAATAAACTGTATGATTTAAAAGATTATCGGGA
GAGTTACCTCCCGATATAAAAGGAAGGATTTACAGAATGTGACCTAAGGTCTGGCGTAAA
TGTGCACCGGAACCGAGAAGGCCCGGATTGTCATGGACGATGAGATACACCGGAATATCA
TGGACATATTCTTTAAAGCGCCCTTTATCTTCAAATGCGGCACGGAAACCGGAGGCTTTG
AAGAACTCAAGGAAGCGCGGCACGATACCGCCCGCAATAAACACGCCGCCAAATGTCCCG
AGATTGAGCGCCAGATTGCCGCCAAAACGGCCCATAATGACGCAAAACAGCGACAATGCG
CGGCGGCAATCGGTGCAAGCTGTCAGCCAGCGCCGCGTTCGGTAATATCTT

Sequence 178

CACGCGTCCGACCGGAAATGCTGACCTGACCTTTGACCAAGTACGNGCGGTGGGGGGGGG
GGACAAGTGGGGTGGTGGTATTAACTGGCTCCGGTGGGTCTTCAAGCCCCAGGAACCCTC
CAAGGGGGAAACAAATGGAGGGCCCTAACGCAAGAAGCTTCAATCGGTCCCTTGGACTGG
GCTTCTTTCGGTGGGTTGGTGGGTATGGCCCTGGGCTGGCCTTTNCCTNAATCTTTCCTT
CCCTNCCTGGGGGCAATCTGGCTGGGTGGCCAAGTGGCTTGCCCCGGCAACAACTTTGGC
TGGCTGGCTTACGGTCAANGGGTGGCCCCTGGCTTGCCCCAAGAACAAAGGTGGCNTTGC
TTTGCCCCCGGAAGGGCCCCTNGTAATTGCCCGGCCCCGGGCCAAAAAAGCCAAGCCACC
TTCAAGGGTGGTTTCCCAAGCATTTTTAATTGCCCCCCCAAGCAACCCTTAATTGCCCAA
CCCTTGTTCTTTCCCCGGCCCAAAAGAACCCCCNAACCCCCCCCAACCCAAGCTTATTGGA
ATTTTCCCAAATGGGGGCCCCCCTTGGCCCTTACAAAACCGGGGGTTTACCCCTTTGGGG
AGGGGAATTAACCCCCTGGGGAAGGAAACCGGTTTTGGACCANGGGGAAGGTAAGGCTTT
AAANCCTTGGGGTNGGGGCCCAAAAGGGCTTCCCCTAAATTGTTAACCCCCCTTGGCNTT
TT

Sequence 179

CGTCCGGAAAACTGTTCATCTACTCACTGTAGTGCCCTCCTTGAAATGTGTGTTTGTTCA
TTCAACTAACAATATTTGGGGATCCCTGTAGTAAACACTGTATGAATTTTACACAGTCTG
GCCATCAAGAAAGATCACGGAGTATATTCTAGATGGGGAGGCTACTAAGTGAATAGGAAT
CACCACGCTGGGCTGTTTATTAGGTACAGTAATAAACATAAGTACTGGTTGCAAAANAAA
ANAANAAAANAAAAAA

Sequence 180

CCNCCGCGTCCGAAAAGACAAGACAGCATACTGTATTTTTCCTCTTAAAATTCAATGTTA
CAATTAAATGATTGTTNTCTGAGAATAAGTTAGCTTCAGCTTTCTAATCGATGTGTTCCC
ACATCTACAAATTGATATGAAAAATTATTTTGAAATGCACACTGCAAAATGGTGAGAATA
TGAAAGTTACCTGGGAATTAAATCAGAACTGTCTCCATATGACTATTTCCAAGTCACAAT
CATAACTTTCTTAATAGCAATGGTTATATATGTGGCCAGATAGTATTCAGTTTCACAGTA
ATGTCTCGGTCACATAAAGATAGCANAGCATAGACATAGTACAACAATTTATTATTTCTG
CTGATTGCCAAATGTGCATAAAACTATAAAGATATATTTTCCAGCCCAGGTGACAGAGAC
CCTGTCTCCCNTTTNAAAANCTTCATGNTAAAGGTGCGGCCGCTAGACTAG

Sequence 181

CGCGTCCGCTAATCAACTTTTAAAAATAATGTTTTACGGCCGGGCGCGGTGGCTCACGCC

TABLE 1

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TGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGTCAGGGAGATCGAGA
CCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCCGGC
GTGGTGGCGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGATTTTTTATTTTTTGAACT
TTTTTACAGAGAAGGGGGGTCTCCCTATGTTGCCCAGGTTGGTCTCAAACGTTTGGGCTC
AAGTGATCCTTCTCACCAAGAGTGCTGGGGATTATAGGCATGAGCTGCTGTGACCGGCCC
AAAATCAAATTTCAAAACTAAAAAAATTCTCAGATAATTAATGAACCTACGTGAATTAAT
CTACAAATTCCAGTTTGAAAAACACTAAAGATAAACAACTGTCAATGTGGGAAACTTAAA
AAGTANGTTGGTATTTAGGTTATTGGTTAAAATGGGGGACCGACTGGCATACACAGTCCT
AAATATTTAAGTCTTAAG

Sequence 182

CCCTATCTTNCGGTACTGGTGGGCCAAATTCCTGGGACCAGGTCAAGGTGGGCTGCCTCA
GTAAGAAGGAAGGACTGGAGAGTGCCCATTTCAGAGGAGCAGGCTGGTGGGGGCCAGCCA
GAAAGTAGTTCCCTTTGGGGGGAAGATGTTGGACCTTTATTATTTGTGGTAACCAGCCGA
GGCTGGTTGTCAGGACAGCAGGTGAGCCACTTTAGGGAAGAAAGTGCAGGGGTGGGTGGA
TGCCCAGATTACCAAGGCCAGCCACCCTGATGGGGTAGGGTCTGGTTATCTGTGTTCAAG
AAGCAAATCCCACCCCAGCCCCAGCACTAGCTCTCTATGTATGTATTTTCCCTGTACAAT
GTTTTATAAAAGAGATCATTAATTTAAAAAAAAAAANAAAAANA

Sequence 183

TCGTCCATTTACCTCACTTATGGGGTAAAAGGTCACTTCAAGTAAGGTTAAAGGTTTTCC
CTGGCAAAGGACCTAACCAGAGCCCCNAAGGGGGGGAAAAAAGGAGGTCACCTTTGGGGA
GGTACCATGGCCCNTTTTGGTCTGGCCCNTTGGGCNTCTTCAACAACAAAGGAATATTTT
ACCAGGCCCTTTTGGAGGCCTTTGGATAATTTCTTAAGAAATTTGGTTACCAGGAAGAAT
TTAGGCTTCNTNGGNAAAAAGGAAAAATTAGGACCTAGGAAAGGGAATTAAAGGGGGNAA
GGGGAAATCAATTAAGCNTTAATGGAAAGGGGGTTTTACTTCTGGCAATCAAGAACCGGC
TTTTTCNTAAGTTTCNTAATGGAACTTTAAACCGGTNCCTAATANGGGCTNGTAAANGGG
GTTCTCNTGGCGGTGGNAAACCACCTTTCTTTTTCCTNGGGCCCTTCCCTTTTCTGGNCC
CCCAATTTNCCCTTCTTTNAAACCCTTCAAAGTTTGCCCTTGGAGGGTTTTTAATTAATT
CCCCCTTGGTGGCCANTTCCCTTGGGGGGCCAATTGGGTTTCAATTTCCANCAATTANTG
GNAAAAACCAAANTCCAAGGGGAAGGGACCCCCTTNGGGCTTAANTTTTTCCTTTTAAAT
CTTCCTGGGAATTTTNGGATNGGGGGAAAAAAAAATAAATTAAAATTCCTTTTTGGGGCG
CCCTTGGCCAAGTNGGGGGGGAAAAATAATTTNGGNTTTTNGGGGGGGGGGNTTTGGGGA
ATANCCTTACCAAGGAACCCCTTCCTTGGATNCCTTTTGGGGGGTCTTTTCAAAAAAT

Sequence 184

GCGTCCGGTTGTAGTTTCCCTTCCCATTCTCTTGGTGGCCCTGGAAGCTTCTAGGCACAA
GTGTGCCACCCTGATTATTCCNACCACTCCATCCAACTTTTCTCTCTCTGTGGGTGTCTG
CACCACAAGCTGCCTACCCTCCAGGTGCCTCAATGGTCCGGCCACCAGTTGTGCCTCGGC
GCCCCCCGGCCCACATCAGCAAGTGTCAGGCAGGCCTCCACCCAGGTGCCACGCACGGTG
CCTCATACCCAGAGAGTAGCCAACATTGGTACTCAGACCACAGGACCCAGTGGGGTAGGA
TGCTGTACACCAGGCCGGCCGCTCCTGCCGTGCAAATGTTCCTCAAGCAGCACATAAGCA
CCTATCGGGTCCAGGAGCCGGCTTGTGCACATNCCAGGACAGGAGCCCCTGACCGCGTCC
ATGCTGGCTGCGGCGCCCCTGCATGAGCAAAAGCAGATGATTGGGGAGCGTCTCTACCCC
CTTATCCATGATGTCCACA

Sequence 185

GTCGCCCCGCGTCCGGGCATTTGTATTTTCAACAATTGTTCTCAAATTTAGAAAAGAGAC
ATCGCAAGATGGTGAAATAGGAAGCCCTGGGCCCTCCTTCCCTCCACAAACACACTGATT
TGACAACAGTTCATGGACAGATTCCCTTTATAAGAAACCAAGAAACTGTTAAGAGGCTCT
TATACCCCAGGTGAGTGCAAAATCATCCACATCAAAGATAGCTGGGAAGTTCAAGACACC
TTCTTTCCGTAATTTCTAAACTGGCACAGTACTATATGATTGAGATGAATCTCCCCACAT
CCAAGCTTCCTGCTGGGGAGGAGAGGGGAGGGTATACCATTATGTCCAATGTTCCAACTC
CTCTAGGAGCTACCCAGGTAGGAGGTGGGTCCAGCTCTGTCAGGCTTGTCTTAAGAGCAC
TGATTGAGGGTCTGGTATTCTCTAAGTGGCCCAGGACCATAAGAGCAGTGGATGGTGCTG

TABLE 1

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GGGNTNNGNNGTGGGTTACCCATAACCCCCTGGTTTTTGG
Sequence 186
TCCGAAGCAGTGAAAATAGTGTTTGACTCCATTGACAACCTAGAGGCGGCTCCTCATGAT
ATCGGCTACGTCAAACAGGCCATGTTCCACTATTTCCAGGTGCCAGATCGGCTAGGGATA
CTCACTCACCTGTATAGGGACTTTGATAAATGCACGTTTGCTGGGTTTTGCCGGAAAATT
GCAGAATGTGCTCANCAGGGAGACCCCCTTTCCCGCTATATCTTCAGGAAGGCTGGGGAG
ATGCTGGGCAGACACATCGTAGCAGTGTTGCCCGAGATTGACCCGGTCTTGTTCCAGGGC
AAGATTGGACTCCCCATCCTGTGCGTGGGCTCTGTGTGGGAAGAGCTGGGAGCTGCTGAA
GGAAGGGTTTTCTTCTGGCGCTGACCCAGGGCAGAGAGATCCAGGCTCAAAACTTCTTCT
CCAGCTTCACCCTGATGAAGCTGAGGCACTCCTCCGCTCTGGGTGGGGCCAGGCCTAAGG
GGCCAG
Sequence 187
CGTCCGCGTCGCTCCCCTGCTCGGGGTCAGCTAGTGTCCGCTCTGCTCGGCCGCGGGCTC
CCGGAGGACTGCAGGCAGGATGACCGCAAAAACACGGGTGATTGGTGAATGGAAGTTGCT
ATGGGCCTCTAAGGGCCATCCCAAGCCCAACCCAACGTTAAACGGTCCACAATCCACCAA
GGAAGTCAAGCTTTTGACACAAACTGCTGAAAAGCTGGGAGGGTTTCTTCTGAAAGAAAG
TTTCTTTTTTCAACCCTGGGGGACACTGGTGCCCTTTCCACAAGCCAGGGAATTGGGTTT
ATGAAGCAAGCTTGGCTCTAAGGGGGGTGACCTCAAGATATTTGCTGGGGGGTTGTGAGG
TTTGGTGGTTCTTGGGAAGTGTGTCTCAAGCTTTGGGGGCCCTGGAACTGTGCTTGAAGT
GCCCTCAGGCCTGTGCCCTTCTGGGGCCGGGGGTCTTGTGGGTGNATNCGCAAGCANGGA
AGCCTGGGGGCCATTGGTCCATTNAAGAAGGCACCCCGGGGCCAAACCTTGCTTGGCTAT
ANTATTCCAAGCCTGCTTCAACCCNTGGGCAGGCTTT
Sequence 188
TCGACCNCGCGTCCGGCTTCGACGCCTTCCCTAACATCGAGAAGGTGTCCAAGATCACGT
CTCCCGTGCTCATCATCCACGGCACGGAGGACGAGGTGATCGACTTCTCGCACGGGCTGG
CGCTCTACGAGCGCTGCCCCAAGGCGGTGGAGCCGCTGTGGGTGGAGGGCGCCGGGCACA
ACGACATCGAGCTCTACAGCCAGTACCTGGAGCGCCTGCGTCGCTTCATCTCCCAGGAGC
TGCCCAGCCAGCGCGCCTAGCGGCGGCCCCAACCGGCCGGACCTCAGCAATAAGGCGGCC
CCCGGACCTCACCCCGCGCCGGCCCCCACCCAGGGGCTGCATGTGGACCCCCCGGGCGGC
CCAGGGGACCCCGCCCCGACCCAGGGGCTGTGGACGATGTACAGGCAACAGAGCTACCGC
ACTCCTTTCCTTTTGGAAGCAAGAAGAAAATACGTGAAAACGGGAAATTAAAGATTTAAA
AATTTTTTNNNNNTNNANAAAAANNAAAGTGCGGC
Sequence 189
CGCGTCCGAAGCCTTTTGTCTCAGAGAATTTATTGTCCTGACAGCAGAGGCCGATGGTGG
GATCGACTGGCCCTTAATTTACACCAGCACTTGAAGCCGCCTGGAACCCGACTATCAAGT
GCATCACAGAGGGGCTGGCGGATCCCGGAAGTCAGAACGGGACACCGNCTTTCACTGTAT
CAGCGAGCCGTGCGCCTGCGAGAGTCTCCGAGCTGTAAAAAGTTCAAGCACCTCTTCCAG
CAGCTCCCAGAAATGGGCTGTGCAAGATGTGAAACACGTGACCATCACAGGCAGGCTGTG
CCCACAGCGTGGGGATGTGCAAGTCTGTGTTTGTGATGGAGGCCCGGGGGAGGCCCGCTG
ACCCCACCACGGTCCTGTGCTCTGTGGAGGAGCTGGCACTGGCCCATTACAGACGCAAGC
GGTTTTGACCAGGGGATTCATGGCGAAAGGGTCCACCTTCAGCACCCTTGTATGGCCTTC
TTNCTGTGGGGACATCATCTTCATNGGATGGGATTCCCGGATGTCTTCAGAAACGCCTGT
CANGCATTNCCCCTGG
Sequence 190
CNACACATGCGGAATCATAGGCCTGCAAAGCTCCTGCTATTCACTATAACTCTGCCATGC
CTTAGGCACTTCCTAACCTAGAATTCTGAGTGAAGGACAACAATAACTAATACTTTTGAT
TCAGGTATTACAAAGAAGTTAAGAGTTCATAAGGCACCTAAGTAAAGTCACATTGGTTAA
GAGTACATGTCTCCAGATACTCTTACATTTGCAAAGNAATTGCATTTCTGNATCTATGGT
CTGTAAATAAAATTGAAGAGTTGNGAGAATAAAAGCATGTTGTCTTTGATAAATTGTTTT
TACAAAACAGGCACAAGAGAGGCTTGAAGGGTCCTTGCTATCTTTTAACCTATTTTATAA
TCTTTGCTGCATAAGAAACAAATATGCTTATTTACATTCTATACTTAAACATATTATCAA

TABLE 1

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ACTTTTATTCTGAAGATAATACACATGAAGGCTTTAAACTTTAATCTTCAATATATTTTT
TAATCTCCCTGATGAATTAGGGAAATAAATATTGGG

Sequence 191

TCTCCCCCTTCACCCTCCTTTTTTTTTTTTTTTTGTTTTTTCTTAAAAGCATTTAGCTGG
GTGCAGTGACACATGCTTGTAATCCCAGCTATTGAGGAGGCTGAGGTAGGAGGATTGCTT
GAGTCCAGGAATTTGAGGCCAGCCTGGGGAACATAGCAAGAGCCTATCTTAAAAAAAAAA
AAAAAAGCATTTCAATTATTTTAAATTTTNTAATTACAAAACAATTCTTTCCTGTCTTAG
TTTAGTTTACTTTTTACTCACAAAGTTCCTGGAAAGTAGTTATTACTCAATAATTGAATG
CATGAGTGTCAACTGCAAAATCTATGCATTATGTAGNGATTTGAATCAATTAGTCTTTNT
TGATACTCCAAAATTACCCTTTTTCGAGNGTCTTTATCANAAATTTGATAAATCGGAACT
T

Sequence 192

TCCGCCCCGTGAGGGGCAGCTGTGGTGTGGTGTGATGATGCTGGGATAGGCACTCAGATG
GTTGAGTCTGAGTTTGGCTCTGATATTATATCAACTGCATGGGCAGCTGTGGTGTGGTGT
GATGATGCTGGGATAGGCACTCAGATGGTTGAGTCTGAGTTTGGCTCTGATATTATATCA
ACTGCATGGGCAGCTGTGGTGTGGTGTGATGATGCTGGGATAGGCACTCAGATGGTTGAG
TCTGAGTTTGGCTCTGATATTATATCAACTGCATGGGCAGCTGTGGTGTGGTGTGATGAT
GCTGGGATAGGCACTCAGATGGTTGAGTCTGAGTTTGGCTCTGATATTATATCAACCGCA
TCATTTTGGGGAAGACACAATTTCTCAGAATTTTATTTAAGTTGTAAAAATAA

Sequence 193

ACACATTGCGGCACCGGGCTGGGCCTGGCCATCGTCAAGCATGTACTGCTGCGCCACCGC
GCGCGCTTGGAAATCAGCATGTGTGCTGGGCCATGGCAGTACGTTCACCTGCCATTTTCC
GCCAGCTCAGGTGACGCGCACACGGCTGGTCGGGAATGATGAATAACCTGAAGTGACGAC
GACCCAATGTGGGAGCTGCTGATACTTTGCTGTCTCCGCCCAGCAGTGGGCACTAGGCAA
GCGCCCCATCAGCCGCTACATTGGCCGACTTGCGCCTGCCTTTCAGGCCCTCTCGTCACC
CCTTATTGAACACACGGAACCTGCAAAACCCCATCATGGACCCTTCCCCTGGTATTACCC
TCGCTACACTCTTCGCCGATTTCGGCATGATTCTTTTTGCACTGATCCTGGTACTGCTCA
ACGGTTTCTTCGTTGCGGCGGAATTTGCCATGGTCAAACTGCGCTCCACCCGGGTCGAGG
CCATTGCCCACACCAACGGGCTGGCGCGGGCAGATCCTGCGCACCGTACACAGCCAGCTC
GACGCCTACCTGTCGGGCTGGCAGCTGGGGTATTACCCTCGCCTTCCTGGGTTTGGGTTG

Sequence 194

TGAAATCTCCTAATACACTGNGTTTTTATTGTTATGTATTCTATGTTTTAAAGCTCCTCA
AGGTATTGTTATTCTTTTGTATAATCAGTGTTTGTTTGGAGCTGTCTGTAAATTTTCCTC
TTTTTTGCTCTTTATTTTTTCTTTCAACTCAGACCTTCCAAAATGGGATTATTTTTCTTT
TTTCTTTAGAGACATTTGCTTGATAACAGAATTTTAATTTGGCGGCTATTTATTTTTTTC
AGCACACTGCAGGTATTAAACTACTTGGCTTCATTGTTGGTTTTGAAAAATCAGCTGTTC
TAATGTTGCTCTTTGAATATAATCTGCCTTTTTCTGTACTTGCTTGNCTTTAAGTTTTTT
GTT

Sequence 195

CGCTCCCTGGTTTCTTGTCTCATGAANAAGAAAAAATCCTAACTGTTCTTGATGATCTTT
AAGGCTCANAATGATCTGGACAGAGGTATTTACCTTGAAGCTCATAAAGCATAGGCCTTT
CTCACTTGCAGAGTATCTTTCTGAAGCTGGACTAAATTGGTTAAGGCCACTGTACTTTTC
CACTTTGTCTTCTTTCCTGTCACACACCCTATCCTTTCAGGCTGTGTTGGGATGGACAAA
AGCAGTTCTGGAGTCCTAAGGAGAAGATGAGTGGGATATGTTTCTGTGACCTGCAGTCAT
TTTAAAGTTTAGCTGTTGCTAGCTGACTCCATGTAAGAATACCTTCCAGGAATTTGATGG
CTGTGCACTCTGGCAGTGCAACTGGCATGGT

Sequence 196

CNCGCGTCCGGCCCTGATTGATGAAGCACAGTCAGTAAATCATCTCTTCATTCCCCAGTT
CTTAAGCCAACATCAGCAACACTGAGAGAACATTAGATTAAAGGCAGGTATAGAAGAGAG
ACTTAGGGTAACAAGTTAGTGGGTGCCTGAAGGCATGTGGGAAGAGATGTGGTAAAGGTG

TABLE 1

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TGCACACTATTCCTTACGTGACTTAAAATGTCAAGGGGCTTGGTGTGGTGGCTCATGACT
GTAAAACTAGAGCACTTTGGAAGGCCAAAGCTGGAGGATAGCTTGAGGTCAGAAGTTCAA
GGCCAACTTGGGCAATATGGCAAGACTGTGTCTCTACCAAAAAAAAAAAAAAAAAAA
Sequence 197
CCGTCCGGAGAGGCTGTTNTTGATNGATACTCCAGAATAGACACGGGCCCTTGAAAAGCT
TGTACCTTTGGGGAAAAGTAGACCAGGAAAATCTCAAGCCAGAGAAGGACTATGAAGCTT
CTTTTTCCAGTTACACATGGAAATAAGAGGTCTTGCATGAGAAACCTAAATCAACCCCTT
TNTNTTTAAGCAGGTTTTGGAGTCTAAATTTATACTAATTGCATTGTGGAGCAGGTCTAG
CCAAGAAATTAACATGACAATCAGTCTCTAATCTGTCTGTCTATCTACTTACTTACCTAC
CAGTCAGGCCAAAGAGATTCCCACAAGTAGGTTAAAAAAAGTAAAGTCTGATAACAAATA
ATTAGTAAGAATGAATGAATAAATAAATAGCACAAAGGAACACTCTACCACAAGGAGGAG
TACTCATCACATCAAATGAGAGAATACCCTAAGAAAGTGAGATAATGCCAGCAATCTGAA
AGATATTTTACCNAAACGTGTTTAAAATGNTTAGGTTATTAAAAAAAAAAAAA
Sequence 198
CTAAGCTGTTATTTTCCCTAAAAATGCTTCCCTTGCATTTATACTTATTAAGAATAGATA
ATAGCTAACATCTATCCACTGCCTTTGATTCATGAGGCCCTCACGAATTGCCTCATTAGG
TCTCCGACAGTATGGTACAACTACTCTTTATATTTTACAGATGAAGAAACTGAGGCTGGA
CTGNTACCTTTTTGCTACACATCCTAATG
Sequence 199
AACCTGTTTTGTTAGATGTGAATCTAGGAAATACAATATATTTTTAATGTAAAAGNACTC
TTGCTTTACTTGTAAACTGATTTTCGTTTTTTTCCCCTCAGGCCATCAAGCCCTGTCGTC
CTATGACCAACAATGCTGGCAGACTTTTCCACTACCGGATCACAGTCTCCCCGCCTACGA
ACTTTTTAACTGACAGGCCAACTGTTATAGAATACGATGATCACGAAGTATATCTTTGAA
GGATTTTCTATGTTTGCACATGCCCCCCTGACCAATATTCCACTGTGTAAAGTAATTAGA
TTCAACATAGACTACACCGATTCATT
Sequence 200
AATGCAAGAACATCTGGATNAAATGGCTTTCTAGATGAGAATGGTTGCATTTTTTAATGG
CTATTCTGGTAGAAAGGACAACATGTGATATTCATCGACCCTCTTTCTCAGACCCTCTTT
ATAACAGCTAGTATGGAAAAATCTGTCTTTCCTATAAATATTTTCCCTGGGGAATGGNTT
CCCATTAATGTGTNGGATGCTTTGNTGTTTCTCTCTTGCACAGCGTGTATGTTGTCATCT
GCACTTAAGAAGTGGAATGGAATTGGGAATCCTGGTTTCTTGCTCTGGCTGGAGGTCCCA
AGTCCGCATTGTGATTTTGGGAAGTCACCGTTGTTCTTCTAGATCTAATTTAACTCATCT
GTAAAANAANNNGGNTNGAATTCCGACAATTTCATGGGTTTCATTAGATGCCAATATTTT
ATGACTCATGATCCCAGCNAGACTACACCTATTTATAAGGCTGGTTTTGCTTGTTTTTAC
TAAGAGCAACAATNACTACATATTTTCAGGTTACTCAATCATCAAAAAAATTATAAAATC
CATAAACACTTTGGATTTGAAACATTGCAACTTTG
Sequence 201
CGTCCGAAAAGCAGTCTTTCTTGCTCAAAGTATTAANGGTGAACAATTGAATAGAGTACT
GTGGTCGGGAGACTGATTTGAGACTGCAGAGCTGATGCTGGGTAGAGGGTCTGGACTTGT
ATTCATGTTCTGTCTCAGGGCAGCCCCTGGAGCAGGAGATGGCAGAGGCATTTACAGCTG
CAGAAAACAGGGAGGAATGGAATCTGAGGTAGCCCTGGCCTCAAAATTCAGGCCTGGCTG
TATCATTTACAGAGATTTTTCTGGAGGGAAAAAGTCTCATTTCTGAGGAAGGCAAGGNGG
GCTAATCATTATTAATTTTTTTTAAACTTTTTG
Sequence 202
GCGTCCGGTTGAAGAGGGCAGGGAATAGGGGTGGGTGAGCGTGAACAGAGTCAGGCTGAT
TGCTGCAGGGTCCCTTGCATTAGTTCAGGTGAGAAGAGACCCGAGTAGGCCAGTGAGCCT
GGAGGAGAGGCTCTCTGTGTGTTTAATTGGTTTCCAGCTTTTTTTCTCTATTCATGTAGG
TTATACACGTTTCTTCTGTGAATTTTTATTTAAATGATTTTTTGTTGTTACTGGATCTAC
AAACAGCCCAACTCCAAGGAATCTGGCATCTCTCAGTGGAGCATACAGGTGACTTCATAA
TCTAACCGCATTAGTAACTGCCAAAATCGGAAGTAATTTCTCTCTGTTTAAAAGGCAGTG
AAACAAATTTTCAGAGCAGGTTTCTTCAACTGAACAAAATATTTTGGACCTTAAAGGTGG

TABLE 1

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TATGGCTCTCCTGATCAGGGAGGGACAGTGAAAGGTTTGAGCTCTGACACTGNCCAGCTC
TCTGGATACAACCAAGTGACTTTTTTTTG

Sequence 203

CGCGTCCGAGTATATAGAAAAACCATTAATTTAGACTCTGTGAGATTAGGTTGCATGAAG
AAGGTTTTCTGAATATTTGAAGAGTGGATAAATAAATGTCCCCCAAAGCAATAAAATCAT
AATCCTTTAAAATATAGGAAAAATAACTAATGGGAACTAGGCTTAATACTCGGGATGAAA
TAATCTGTACAACAAACTCCCATGACACATGTTTACCTATGTAGCAAACCTGCACATGTA
CCCCTGAACTTAAAATAAAATTTAAAGTAATAATAATAAAAAAAAAAAAAAAAAAAAAA

Sequence 204

CGCGTCCGCTGGGAGGCTGTGGGGTCTGCCACCCAGCAGATCTGTGTCACGGGAGTGGCG
CTGTCACTCGTTGAGGTGGTGGCCTGGTTCCTTTGGCCTTAGGGAAGGACAAACTTCAAC
TCTGAGCCTTGATTGAGTGACCTTGGCCAAGTTACCTAGCTTTTCTGAGCCTCACTTTTT
TGGCNATTAGATGAACCAGAGGTTTATTTCACTCAGAATCCTGTTCACGATGCTGGTATT
TGGACCAGCCTGCGGGTTTATCCTGGGCTCTTTCTG

Sequence 205

CGCGTCCGAAAAAGGATGAGAAGAGAGGTGCATTCCAGAAGACAAAAGGTGTGTAGTATC
AGGATAAGGGGCTTTAAATATCAGATCCAGAGAACACTGCACATGTAGAAATGGGCTTGG
CCTGGGTCAGGGCATTGAGATTGGTTACATAATCTTTTCAAGGATTGGTGAATGAGTTGG
AGTATGTGTAGAAACCTACAAAGATGACAGTTTAATCTCATGTCATAATTTTTAGACAAA
TAATGTATTTTAAAACTGGGTGCAGTTCCTAAAGCTGTTCTAAAAGTCAATGCAACTGAA
TTTGGAATGTAAGCATAGGACAAACAGATGGGAAATAAGTCATGACCTCTGTGGGATAAA
GTGAGAGTTATCAAAGAATGTCAGTGTTTATAACAAGGAACAAGCTTGTTTTGGAGAATT
ACTAGATATTATGGAAAATTTTTTTCTTTTCTACATTTGGGTAACTATAGCTGAACTATA
GCAGATCATATTGACTTGGCAAAAAA

Sequence 206

CCNCGCGTCCGGTTATGTACTTTTGGAGACTTCCATTAGAAATATTGGCAAGTCCCTGCT
TCGTGGCCATAGATTTAAAAGGCCTATCAATTTTAAATGTTTCGGTCATTGAGAGCTAAA
ACATGTAACATATCACAGTGTTATTCACCAGAAATAAAAAATCAAGAGTCTGCTCAGAGT
AGGTTAATATGAGTTCCTTTCTTCAGTCCAGCTGATGGTTTTTAGTAAGATGAACTGCCA
AGGAGACAATGAGCACTGACTTCTCGATGCATGACTTCATCTTGTTAGAAGGTGGGTTGC
CGGGCCGCGGTGGCTCACGCCCGTAATCCCAGCACTTTGGGAGGCCGAGGCGGCCGGATC
ACCGAGGTNGGGGGGATCGAGACCATTCTGGCTACACGGTGACACCCCGTCTCTACTAAA
TATACAAAAAATTGCCCGGCCGTGGTGG

Sequence 207

CCNCGCGTCCGATGAATAGTTAGCCCATGATAAAGGAATAAAAGGATGAAGAATATTTGA
AGAGAAATAAATCTTCCTCACTCCTCAGGTTCCCTTCCATGTGCAGGAGCCTCAACCTAC
AACTAGCAACCTTATCTCCTGACTCATTCCTCTCTAGAGGAGGAGTAAATTAGTCAACTG
ATATGCTCTGGAAGAAAAACCCA

Sequence 208

CGTCCGGTCTTTCCTCCCCCTAAATAATGCATTACAAAGTGGAAATGCAAATTTCCTGTG
CAAGCTCTAAGTAGCAGGTGGTATTTCCTTAATATATTGTTTTTGACCTTTGGGGAAATT
GGTATTACGAGCTGACTTTGGAAAATTAAAATAGCATCAAGGTCCTACATTTTAAATAAA
ACAATCGATATCTTAATTTTTAAAATCAGACTAGATTACGATACCAGGAAAAGACATACA
TATTTTGCTTTTATGTGTTAAAGTTTTGTAATTCAGGGAGGACAAGAAAAGGGATATGGT
GCAGCTGAACTTTCTAATTCACTAAGACAGGAAAAAAAAAAAAAAAAAAN

Sequence 209

CGTCCGGGAAAAACAAGGGTTTCCGCCAACAGGCTGAGAGCAAAGGAGGACGCAGGAAAA
CTATTTTAAAAATTGACCCAAGAGTTCAAAAGGCATATGGAAGCATTTAATGGGGGTGGG
AGGTATCCTTGTAATAAGAATACCATGCATGTATTCCCACACTGCTCTTGGTGGTCTGCA
AAGTGATTTCATATGTATTTTATGTCAACACCAGCACAATGAGGTAAGTAGGACTGTATA

TABLE 1

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CCTCAGAGGCATTTGGTGATTTGTCAGAGTGGAGTGTAGTGTGTTGGTGCCCAGATTTGA
ATAGGATCATTTGAGTCTGATATCATCATGTTGCCCACCGCCTACTCAGCCTCTACACCC
GATGAGGCCAATCTGCAGCTCACTACAGTCAATAGAGAACAGGCAATTAACCCTTAAGTT
ATATTTTAGAAAGATTTCTGTCTAAAATAGATAAACTTGAAAGTATAGCTCTTCAAAATA
ACGTATTCCTGTGTTGGCAAATATTTTCCAAACTCACAATCAACACATAGGTGTATTTCT
TAGACTACTAGAAGTGGGGACTTACCCCAA

Sequence 210

CGCCNCGCGTCCGGGAAAAACAAGGGTTTCCGCCAACAGGCTGAGAGCAAAGGAGGACGC
AGGAAAACTATTTTAAAAATTGACCCAAGAGTTCAAAAGGCATATGGAAGCATTTAATGG
GGGTGGGAGGTATCCTTGTAATAAGAATACCATGCATGTATTCCCACACTGCTCTTGGTG
GTCTGCAAAGTGATTTCATATGTATTTTATGTCAACACCAGCACAATGAGGTAAGTAGGA
CTGTATACCTCAGAGGCATTTGGTGATTTGTCAGAGTGGAGTGTAGTGTGTTGGTGCCCA
GATTTGAATAGGATCATTTGAGTCTGATATCATCATGTTGCCCACCGCCTACTCAGCCTC
TACACCCGATGAGGCCAATCTGCAGCTCACTACAGTCAATAGAGAACAGGCAATTAACCC
TTAAGTTATATTTTAGAAAGATTTCTGTCTAAAATAGATAAACTTGAAAGTATAGCTCTT
CAAAATAACGTATTCCTGTGTTGGCAAATATTTTCCAAACTCACAATCAACACATANGTG
TATTTTCTTAGACTACTAGAAGTGGGGAC

Sequence 211

NCGCGTCCGGTTTCNTTGGGATAGATTTTACCTATGAATTCCTCCTTAGAATTCTGAAAT
TGCTCAGATTTACCCAAATGACAGCCAGTTTCTCATTTCACATTTGGGGGCTGTAGAATC
TTCCAACATTGAGAACCTGTTTTAATCAAAGGATGCTTTGTGGAATCCTGAATGAGGAAC
AGCATGTTGCAGGAAGAAGAGAAGGATCCTGATGCCCTAATGGGACTGATTTCCTTTTGG
GGGGCAGGAAGATATATATTCGTTGGGTGCTTATAAAAGGTTAATTCCAAAGATTGTGTA
TGGTTAAAGGACTGAAAGTCACACTTAGCCTCATACTTCACTTAGATGAAAAACAAAAGC
CTTCCTCTCCATTACCTTGTAAGATCTATTCCTTGTGTCTTGTGCTGAGTGGACCTGGAA
TAATGGATAGCCCTCACTGAGTACCTAGAAGGGGACTAGGGGTGGGTGATGAAAGGGGGT
TCACACCGAAGATCTAAGTGCTAGCTTGGGTA

Sequence 212

CACGCCCCGTGGCCTTGCTAGAGATCCATATAATGCAGTCATGCTGTTTCTTNCTCCATA
GTATGTGGGGCATGAGGAGGAGACAGGGAGAGGGTGGCTTCATTGNGCAAANGNGGAATG
GCTGTGCTTTGGGGCCAAGGAGATGCTGTCCTGCTGTAGCTGCTCTGTGAAAGGTCAGGC
CTGCCCCTNTGAGGCTCCCTTTATCCTCCTAAATTCTGGGGCATCTACATGACGCTTTCT
AGTCCACCTTTGCCTNCGCAGATCATGGCTACTAACCTGACCTTTGTCTGTACTTGAGCA
CCCTTCGCGATTTAACTTNCATGTANCGTCCGACTTCTAATATGGATTTGAATTTNTTGA
CTGTTACTGCTCANAACAATCACCCTTTTTTGAGCAGNGAGCTGGNAGGATAATTGCCGA
CAAATGACATTNGGANCCGTTTTNAACCACAGGGGGCATGGGG

Sequence 213

CGATCATTTTATTAGAGTNATGTATTTAAGAACTGATAAATCATGGGCTTACCTACACAA
TGTCTAGACACATGAGCAATGAACAAATAGCAAGGTCTGTGATATCTCATATGGCAATAC
TAGGACTGAGATTATTTTTGTTACAATTAAATAATTGTCAGTAAAAATCCACAGAGATCA
TTTAGAATGGGAAAAAAGTCTGATATATTTTGTTTCAGATTATAATCATTAATAGGGTAC
CTGACAGTTTTCAAAGTTGTTTAATGTTTTTTAGGTCTTTAACCTTCCTAATCCTACAAG
GTGGTTACAATCCCACATATTATCCTTGTGTCAGGGGTCTCCAGCACCTGCCTTAGGGTC
AGTGATTTGCTAGAAGTACTTACAGAACTCAG

Sequence 214

ATCTGACAGCCTGGAACNGCACCCACACCCCCAGGTGAGAATCTGATGTTCTGGAGCATC
ACACACAACCACAGGTGAGCATCGGAGAGTCTGGAGCAGCACCCACAACCCAAGGTGAGC
ATCTGACAACCTGGAGCAGCACCCACACCCCGAGGTGAGCATCTGACCTCCCGGAGCAGG
ACCCATACCTCCAGGCGAGCATCTGAACCCATGGAGCAGCACCCACGCCCCCAGGCGAGC
ATNTGACCGAACAGAGCAGCACCCCCTCTA

Sequence 215

TABLE 1

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TCCGGGAAAGACTCTGAGAAAGGACTCCTGACCTGGCTCTTCCAGAATGAGGATGGATTT
TCCATATGAAGGAGCCGGGGGCAGGACCTTCTGGGTAGAGCGTGAAAAGAACACAGTATG
TGTGGAGAGCGGGAAATTGTGTTGAACTGTCTAGAAAACAGAGCCACAGGAATGCGTGTT
GAGGGCTTGGGCTGTACAGTGGAGAGTGCCCTCCCTGGCCAGGGAGTTGGACATTCATCC
CACCACAAGACCCCATGAAGAGTTCCTCAACAGCTCTGTGTCCTCATCAAACCTGTGTTT
GCAGAACAGTGGAGGAAGAGAGCTGAAGGAGGGGAGAGGCCCTGCACCTGCCAGGCCCTG
GCCTAGACTACAAGGGTGAGCACTGAGCCATGCTCTCGGGGAACCTTCACTGGAGTTGAG
GGCAGTGAGAATGTTTAAAAAAAAAAAAAAAA

Sequence 216

ACGCGTCCGATGCACACTTGTCTTTTACCACANGGGTGGGGCGTGGGANGGAGGTTTAGT
TTGGATAGCCACGTAAACGCCTTTCCCTGTGGCCTGCGATGTTCCACACCGTTTATGTGT
GAACTGGCTGCACCCGCGCCTCCCGGACGGGGCTGCCAGGGAGGAGGGCCCGGGAGACCC
CATCCAGACCCCGGCCCGCACGCTGCAGAGGTCTGCTCTCAGACATGTGGTGGGCTCCGT
GTCACGGGTAAGGGGTCGGGGTCTAGACGGCAACAGAGTGTCTCTCTCTTCCCGCTCCCT
GGTGTGCCCACCTCCCTGTACAGTGTTTCTGTTCAAGCTGCTGCAGGGGACGGGGCATTT
TTCCTCCAGACTCTATTTTCCTGCAAGGAAGAGCTGCTGTCCTTTTTCTTACTGAAGCCC
CTGATTCTGTGTCTGATGTTGCTGACCGCCGTGCTTGCTTTCTTGCCCGTGTGCAACTTC
CAATCCCAAGCACACGTGCTCACTTCCAAG

Sequence 217

GCGTCCGGGGAATGGCTGTNAGTNAAGTTAGAGGTAAAAAAATTTCATGTTAAGATTTTG
GAACTGGATTTTATTTAAAATAATGATGCGAAGCCATTGAAAGGTTTTTGGTGTGACAGG
ATAAATTTAAAATATGAACACACCAACGCATACTTCTTTTAAGAAAGAACCTGATTAAAT
TTGGGAATTTTAAAATAAAAACAGGAAGCATATCGTACTCTAATATAATAATTCAAGGGT
TTTTATTTTCCTAGAAGATCAAGGTCATGTTAATAAAGGGAATATAGTTTTCTTATCTGT
GTTAAGACACTGATGACTTGCAAAGAAAAGTAACACTTTTGTGATATCCTTAGGTAATTC
AAGAGGAAACGCTTGAGCAATTACTGATGTTGTAAACTGGGATCAGAAGACATA

Sequence 218

NCCCCGCGTCCGCCCAGTTGCAAAGGAGATGTTGTAGGATGTTAGGTCTCAGCACAAGGA
ACCCAAACCTTCAGGGGCTCTCCTCTACATTATGCTCCCATTTTTCTCCCAAAATATCGA
TCTCCACCCACCCTAGACATAGAACTGGAGAATAAGTTCCAGTTTCATCCCTTTGCAGAT
CTTAGGGGGACCCATCAAATTCCCAGCCACTGGGTGAAAATCAGCAGCTTCTTTATAGGA
CCTGAGTTGCCTTCCTAGAGGATCCTAGAGGAAAAAAAAAAATCTTATCCTTCAAATACT
GCTGTCTTCCAAAATACGTAAGGACGCCACGGTGAATCATAGTGGACACCCTGCATTGGT
TGGGTTATTATTTATCCTAGAAGCTTGGGTTCTTGGAGCCCTAGCTTATTTAAGCAACAA
AGTCCCTCACAGCCCACAGGTGAGGAAGTGAGTGTAACAAAGAGATCATTGGACCTAAAA
TCAAAACACCTG

Sequence 219

CCCGAAAGGAGGTTTGTGGAACTTGGAGAGATCCAGGAGGTAACACCAAAAAGCTGCATT
TAGCAATGCCTGCCTAGCCCTCCTGTACAGCTCATGTTATTTTGTTGCCTTAGGCCATCT
TACACCAAACCATTCCTATCTCCATGCTTTTGTTTATGCTGTTGCCTCCTTTTAGAAGGG
CCACGCTCCACCGCTCTGCTGTGTTGATACTACCGACCCTTCCTTTAGTTCCTGTTCAAT
TCCCAAGCCTTCTGCCAAGCCTTCTTGGACATTCCCATCCCATGCTGACTATTCCTTAAG
CTAAAAACCCTTAGAGTTAATATGATACACTTGGCTACCTCATTGTTTCATATCAGTCAT
TCCTGTCTCTAGCTATAATCGGCTCAGCCAAGGAAGATATATTTATATGGACAATGTCTT
TGTGCCTTGGCTGTAAACAGTGTTGAATAATTAATCTCACTTGATGAGGTCTTACTTAAT
GATAGCCTCC

Sequence 220

CTCGTCCGGGCTGGATCCGTCTGCNCCACTGCAAGGGCAAGATGCAGCTGGTGGCTGACC
TGCTGCTGCTGTCGAGCGAGGCGCGGCCCGTGCTCTTCGAGGGCCCCGCCTCCTCTGGTG
CCGGCGCCGAGTCCTTCGAGCAGTGCCGGGACACCATCATCGCGCGCACCAAGGGGGTTT
TCATCCTTACCCACGACGTGCAGAGCCAGCTCAACATGGGCCGCTTCGGGGAGGCGGGGG

TABLE 1

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ACAGCCTGGTGGAGCTGGGCGACCTGGTGGTGTCGCTGACCGAGTGCTCGGCCCACGCGG
CCTATCTGGCCGCTGTGGCCACGCCGGGCGCCCAGCCCGCGCAAGN

Sequence 221

GATTTTGGCTNCTGCAACCTCCGCCTTAGGGGTTCAATGCAATTCTCCTGCCTCAGCCTC
CAGATTGGGATTACAGGCATGTGCCACCGTGTCTGGCTAATTTTCTTGTAATTTTAGTAC
AAAAGGGGTTTCACCACATGGGCCAGACTGGTCTCAAACTCCTGGCCTAAAGCGGATCCA
CCTGCCTCGACCTCACAAGGTGCTGCGATTACAGGGATTACAGGCTGGGATTACAGGCAT
AAGTCACCACACCCAGCCTAAAAATTAAAAGTTTATACTGTATTGTTCACATTGTGATGC
AACTTTCCATATGTATTTCCAGAATCAACTATGTATCAAGGAATATTGAAAGCATAAAAT
GAGATCATGGTGAATTCTCTCCCATTGTCATTCTTGNGGTAAGGGAATGAATGGTGG

Sequence 222

CNCGCGTCCGAGTTATTNATATAAAGAACATTTTTCTGTTTTAGAGAGAACCCATTTATT
TGTGAAAGAAACAGAGTTTTGTTCTTATCCCTATAAACACTGCATTTGCTGTTTCTTCTC
TAGCTGATGTGACATATTAGGGAAGCAGCACCCGACTGGGACTCAAAAGACCTGGGTTTG
GAAACTTTTTGATTACTAGCTTAGCTGTGTGAAATCAGGCAGATGGTATAACTTCTCTCA
TTGATGATGTCAATCTTTTTAAAAATTTTCTAGCAGTGAAATTTTAAAAAATGAAATGTT
AGGTGAAACCTCAAACTTACAACAGTGGTAAAATTGGAAGGGTTCTGGATGGAGTGAGGG
CAGGGAGGGGGTAACTGGGCTGAGGGGCCCCTCTTCAGCCTCTTCCTCCCCTTCAACCGA
AGTCTGAAAATCTCTGGCTAATATGGGTGGATCCCTAAGATTTCTTTTGTACTTTTAACA
TACCGAAAAGNTATTCTAAAGAATTTTGGTATGGTTTT

Sequence 223

CGCNTCCGCCGAGCGCAGCAGTCTCCCCCTAACCTCAAAAGCCTCCTCAGAAGTAACCTG
GTATCAGTGGGCTGTGCAGATTCTTATAGTCTTCTTTGCCTTTATATATGAAAATAACTT
TGTTTTATGTTTGTTTTCACATAGGTGGAATTATACTGACTCTTACTCTGTGACTTGCTT
TCTTCACATGACAGTAACTCCTGGACTGTTTCTGTAGCAGCCACACAAGTCTCCTTTATA
TTGCCAATATCTATCTTTATCCCAAAGACAAGATGAATGTTCAAAAACGGTAATCCAAAC
TCACTTCTAAAAATGGGTGTGTGTTTAAAGAAGAGCTGCTCAGCTGAGGCAGTTTTGCTG
CCGAGGGGATTTGAGCAATGTCTGGGGACGTGTGGTTGTCACAACTTGTGAGGGGGCTC

Sequence 224

GCNTCCGTCAATTTGCATCAGTTGCCTTAAAGAATGGGGTAGTTATAGGAAGCTCACAGA
GAGGAAAAAAACTCTTCATGTCTACATTGCTTCTTGAACTGATTTTATTTATAAAAGAAG
AATTGTTGAGCTAGTGATAGAAGTTTCATGAATTCCCTGGTACTAATTATCAGTTAAATG
ACCTCTCTGAAGTCTCTGGAGAGCGTTCTGTGTCACTAATATTGGTGAAAATTTGAAACA
AAAATGCTCTCCCATTGTCCACATATTGCTTCTTTGAATTTGGTTTTTCGAGCCAAGAAC
TTAGGGTGTGAGAATATGTTTGTGGGGAAACCCACACAAATTTTATGTTAGTCTCTGTAC
ATTTAAATTTTTACCTTCCTGATTACTTACGTAAGACTAAACAATTTAAGTTTCTAAAAT
GCCATCACTTTTGCAAATAAAGGACTTTATTAAAGNTGATAAATAACAATNATGGGCCAT
CAGCTCCACCTATAATTAATATCCTTGCCTGGCACCCCTGGAAGGGACTTAGCTTNTT

Sequence 225

CNTCCGCAATTACTGCCTTAGGCTAGATTCCCATGAATANGAATTGCTGAGTCAAAAGGT
TGACACATTNTTTAAAGGTTAGATACATATTAGTCAAAGTTTTTAAGCAANATGCTTTCT
AAGCCTNTTTGATCTTTATAANNCATTGNTCCTTTCTAAAAATATATAACTGTCTTCTGC
GTNCCAAGGATAATTNTTTTTATTAATATGGGGCTTCTTGTGTCTACTTCCTCCCCTTTC
GTTATTTCTTCAAAATGTTTAACAAACTAATACATTTCAGAACACATTATGCTTNCATCT
TGTCACTATTTGCAGTACCTTGTATCTCCTGGACTTTATGCAATGCGTGTGTGTGCACAG
ATGGAATATGTTNCACCATTTGGCT

Sequence 226

GCAGTGCCGGCGGCGCAGTTGGGAATGGGAGTGCGCTTGCACAAGCGCCGACGAGCGATA
GCGACGCTATGCCCTCTCTTGCCCAGGCGCCGGGTGGCGCGGATCAACCTGCTCTCGCAG
CAGCCCCTGTGGTGGCCGCCGGTGATGATGCAGGAATCGTATTTCGACGGTGGNCAGCTT
CGCTTTCGATCAACATCTTCGNCGAAGTTCCGCGTGAACCGTNCGGNATCGACATCGTGG

TABLE 1

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CGCTGGCATCTGCCGCTATACCAATCATCGAAACCGCGCTGGAAGGTCGGGTCCAGCGCC
CTGCAGAAGAGACGCCTCCAGCAGGACAAGGTGGCCTGCTCGACGAGCAGGCTACCCGAG
TGTCGTTGAACAAGTATCGCCTTGGGTCT

Sequence 227

CTGACACCCAGTATTGCCAACCTAAGGACTAGGAAGAAAGGGCTTACATGTTTCTTGCTT
TAATAATATGTGAATTAGAAAAGGTATTCAAGAAGATACAGGGTTAGAATGTGCATCTTT
CTTTTATGTACTGAAATGTTTCAACTCATATGCAGCAATGTGGTNACCTTGAAAGATGAT
TCCAGAGATTTCATGCTTCTGGCAGTTTCAGGTCACATTGGGGTGAAATTTGACATACTG
TAGTCATCCCCAAGGTAATAATGTTGATGAAATGGTATAAACCCTGATACATTCTTAAGC
AAAATGAATCTAAAAGTTTGTTTCAAAATTTTTAACGTTTTATGTTGCTCTGACTTTCCA
TATACTGATTTTTACATTACTTAGTGAAAAAAAAAAATTACCTTTTAGCTTNTGGCAACA
AAAACATTTTTGGCTATT

Sequence 228

CCNCGCGTCCGCAAGACAGGAGATTTCTTAAGGTCATATATGCACGATTTGCTTAAACGT
CATATAGCATAACTGGAAGAATATAGAATCTACCCAAAGCCTATGCTCTTTCTACTGNAT
TATTTGCTTATAATAGAGAATGCTAATCAGAATCACCTGAATAGTCTTGTAGAGGGTCAG
TACACAAGCCTAGGTCCTATCCTTCAGAGAGGTGAAATGGAGGCAAATATATTCTGAAAG
AGTTTCCCAGTTGATTCTGATGAGCACTCACAATTAAGAAGTGCTGCATTAAGAGCTGTA
CATGGTGGCTTATGCCTGTAATCCCAGCTATTCCTGAGGCTGAGGCTGGAAGATCACTTG
AGCCTGGAAGATCACTTGAGCCTGGGAGTTGGAGACCAGCCTCGGCAACGTAGTGAGACC
ATGTCTTTTTTT

Sequence 229

TTGGGAGATATGGCANGGTGAGAATGTTTGGGAAAGGAAGTAGAGACAGACATTGGATTT
TTGTCAGTCAANTTTCTTTTGATTTTAAATTATTTATTCATTACATTGTCTACATGGCAG
TTAATATTCTAAAACTATAAACAAAATTTAATATAGAAAAAATATTATGCTTTTCTTTTT
TGCCTTTGCATGCTCTTATTTCAAAATAGATTTAAAATTCATGGCATATTATACTAGAAA
ACAAGTCTGTCAATGATCTAAGCTTCTATCTTTAGATACTAGGAAAAAAGAGAAAAACCC
AAAGCAAGCAGAAGCAAGGAAATAAGAACAGAAATAAATGGAATTGANAAGAACACTTCA
GAAAATCAGTCAAACTGAAGCTGATTTTTATAAAGATTA

Sequence 230

CCACGCNTCCGAGGAAACTGGCAGGGAAACAAAGTATCCCTGGAAGGAATTTCTTAAAGA
GGAAGAGGCAGATCCCTACAAGTTTAAAATCAAAGAATTTGAAGATGTTGATCCCAAAGT
GAAATTGAAAGATGGACTTGTGAGGAAGGAGAAAGAGAAGCATAAAGATAAGAAGAAAGA
TAGAGAGAAAGGCAAGAAAGATAAAGATAAGAGAGAGAAAGAAAAAGTGANAGATAAAGG
CAGAGAAGATAAGATGAAAGCCCCAGCACCCCCACTGGTGTTGCCCCCAAAAGAGTTGGC
CCTGCCCTTGTTCAGCCCTGCCACAGCCTCCAGGGTCCCAGCCATGCTGCCATCTTTGTT
GCCAGTGCTTCCGGAAAAACTGTTTGAGGAGAAAGAGAAGCCGAAGGAGAAAG

Sequence 231

NCTAGACTCCCCTCTCGTATCATGGATCCCAACATCNAGGNATATGGNCATTTACGTGTT
GGGATCTGCTCTGCCATTGNACACAGCTATATTCNATTGCCCCGGGNGTTGTGTATNTTT
CCAAAAACGTTGAAAGGGAGGTTCAGAAGTATNCAGTTATTNGTATTATTAGTCGTTTTG
AAACTGAGTNGAAAGACTCATTNANGAAAGNTCCATATGCCTTCTTGTCTGTCTATGGCT
GGNNTGCTCNNGAGAAAAGTCCNCANTTATACAATTGTA

Sequence 232

TTTCCTTTTTTTGGGGGCGGGGTCGCGCTCTGTCGCCCAGGCTGGGGTGCAGGTGGCGCG
ATCATGGCTCATTGCATCCTCAAATGCCTGGGCTCAAGCAAACATCAGTTTTCTTATCTG
TGAAATGAGGATAAAAATGTCTCCACTTAAGGGTTGTTGCAAGGAAGGTGTTGCCTTAGT
CATAAAAGCTAGGGAAGGTGTTCCTAACGAAAAACAATTCGTCAGAGACATGAAGGTAGA
GGAAGAATTCACACATGAAGGGGGCTGGGGAAAATGATTTAAGAAAAGAAACAGGCCTGG
CGCAGTTGCTCAGGCTTGTGATCCCAGCACTTTGGGAGGCTGAGGAGGGTGGGATCACCT
GAGGTCGGGGAGTTCTAGACCAGCCTGGCCAACCGTGGTGAAACCTTGTCTTCTACTAAA

TABLE 1

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AATACAAAAANATTGGCGGGGTGTGGTGGCAGGTGCCTGTATTCCCAGCTACTTTGGAGG
CTGGGACGGGATAATTNCTTGAGCCCCGGAGGCGGGGGTTTCCGGTGAGCCCGGGATTGC
GCCCCTTGCACTACAAGCCTGGGGCACANAAGCGAGGACTNTGTCAAAAAAAAA
Sequence 233
CCACGCNTCCGGTCTCAAATCNCCTCAAGTATATTCAAAATTTGACCACTTCTCACCAGC
ACCACTGTCATTATCCTGATTCAAGCCTCCATCATCTCTCATCGTTACTGTGACCTCCTG
ATCATTCTCCTTGCTTCAGCCCTGGCCCCTGCAGGCAGCATTCAGTATTAAGCAGTAGAG
TTGTTTCTATAAAAATGTAGTCAGCTGGGTGTGGTGTCTCACGCTGTAATCCCAGCACTT
TGGGAGGCCAAGGTGGGAGGATCACTTGAGCTCAGTTTGAAGACCAGCCTGGTCAACATG
GTGAAACCCTGTCTCTACTAAAAATACAAAAATTAACTGGGCATGGTGGCGGGCACCTGT
AATCCCAGTTACTGGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGAGGCAAAGGCT
TGCAGTGAACCCAGATCACACTACTGNTTTTNCAACCTGGGCACAGAGTGAGACTGCCTC
AAAAAAAAAAAAAAAAAA
Sequence 234
TCGAGGTCAAGGACGGTTATGGCCCGTAACTACCTGCTGCCGCAGAATTACGCCATCAAG
TGGACGCGCGGTGCTGAGGCCCAGATCAAGGACATCACTCGCGCCCGTAAGGCTAAGGAG
ATCAAGTCCAAGGAGGAGGCTGAGCAGATCCGCTCGCAGCTGGAGCACCTGGTCGTCCAG
GTGACTGTCCAGGTCGGCGAGAACGGTCGTCTGTTCGGGGCCGTGACTCCTGGCGATATT
GCGCTGGCAGTCAGGAAGGCCGGTGGCCCCGCCCTCGAGAAGCGGTCCATCGAGATCACC
AAGCCGATCAAGACCATCGGCAAGCACACTGTCCGGCGTCAAGCTGCATGACGCTATTAA
GGGTCACGTCACGGTCGAGACTGTTCCCGCCGCGTTGATTTGACGTACACGCAGANTAGG
GGGAGGGGCATCCAACCTGGGTGCCCTTCCTTTGCTTNCGTCACCACCGGCGAAAGGTAA
ATGACCGAAAGTAATTCTTATTACNGTGCTTAGGGGGGTTTCGCCGCGCCGGGCCGTTAG
ACTTAGTCTAGAAGAAAAAACCTTCCACACCTTCCCCTTGAACCTGGAAACATTAAAATG
AATGCNATTGGTGGGGTGGTAAACTTGG
Sequence 235
GNGGTAGCTTTGTGTATGTCGGGCACTTCNAGGAATAGGGTGCAGGAGAAACGTCTCAGT
GTCTCCCCTTCCGAATCTTGGCTTCTGGAGGGAGAGATGCTGGGGTGGGAGTGCTCCTTG
GTGGAGTACTCAGGAGCTTAGTAAAAGCAGAGGGGGCTGGAGAGGCAGGCCTGGCCTGCA
GAGCCAGCATGGAGAAGCCTGGTGTAGGGCTCTCCAGCCTGCCAATTTACAGTTAAGAAG
AAAGGAGATATGTATATATATATATACACACACATACATACATACATACACACACACATA
TATACACACATATATATACACACATGTATACATATATATACACACACATACACATATACA
CACACATGTACACATATACACACATATATACGTGGGGTGTGTATATGTATATATGTGTAT
ACGTATATA
Sequence 236
AACTGTCTAATCTCTTGACCTCGTGATCCCCTGCCTCGGCCTCCCAAAGTGCTGGGATTG
CAGGCATGAGCCACTGTGCCCAGCCATACTTTTTTTTTTTTTTTCTGGNGCATTTCTGAAG
TTAAATATGTTGAGTTCTCTGCCCATTTGTTCAAATTCTATTGNATTATTTCTGNNGGAT
TGACAAATGTTATGAACAATTTGGTTTCAAAATAGATTTTTCTATTTAGCAACTTTCTAT
TCCTCTAGGACCTAGTATTAAGGTCATTAAGATGGCTTAATGAGTCATTAAGCCATTAAT
GAGTCATTAAGATGGCTGACCAATCTGTGCCATCTTTTTTAGTGACATTTTGTTTATCAG
TGTCTCTTTTGTGTATTTCTTTGATTTATATCTTGACAGTATTACATAAGCAGGAATAAA
AGAGACTTTGAGTGGGAATGTCTCGCTCAAATATAAATAACCTTATAAATACAATCTTTA
CTTCTCAGAGTCCTAAAATCTTCTTGGTTAGTCTGGTCTTCCTGGGTTGATTCAAGGTTC
TCGGNGACTAAATGGCAT
Sequence 237
TGTTNACCTTTGGGATTACACAATACTTGCAATCCAGCTCTGCCATGGGGGACATCATTA
CACAAAGCACTCCTCACCAGTAGTCAGATGGCACTTGATAGCTACAGGCATGTGAATATT
CTTTTACTGTCAACTTTTGTTGTGATTTCACCTAAAATATGATAAGCTCCTTGAGGATAA
AGGCTAAGTCTTACTTCTTCGTATTTCTGGTAACCGCTTGTACCAAACACCTGCCAAGCA
TTGTTGATTGCACCTATGAGGAGGTGAGAAAGTGCCAGGCCGTCATGCCCCTCTATACAA

TABLE 1

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ACATGTAACAGTAGACTCTGGTTCATCAAGGAGTAAATGACATGATATGTGATAGACCAC
ATACATTCGTGGCTATAGATAGGGTGAGTAACTGTAACCATATCCAATTGTGAGCAAAAA
GTGTTTAATTGGGGNGGTTTTAAACTAATATAAAATTGGCTAAATCATCATTTTTCAAGC
TCTCGAATCATCTGAAGACCTTTTTTTTATTTTTTAANANTTAGGCC

Sequence 238

CGCTCCGTTGCAGTGAGCTGAGATCACGCCACTGCACTCCATCCTTGGTGACAGAGCANG
ACTCCATCTCAAAAAAAAAAAGAAATTGGGTTGTCTAGGCACAGTGGCTCGTGCCTGTAA
TCCCAGCATTTTGGGAGGCTNCNTAGAANAATCACTTGAGCCCAGGAGTTTGAGACCAGC
CTGNACAACATAGTGAGACCCCATCTGTACCAAAAAAAAAAAACACCAGACCTGGTGGCAC
ATGTTTGTAGTCCCAGCTACTCAAGGGCTGAGGTGGGAGGGATCACTTGNNCCCAAGAAG
TCAAGGCTTCAGTGAGCCATGATTGGTGCCACTTGACTACAAGCTGGCAACAGANCCAAG
ACCCTNTTTAAAAAAAAAAAAAAAAAAAATNGGNTTGGGTTATAGGNGAAGTTNCCTGG
AAAACCTTACAAAACAAGAACCATGTTTGGGGGAANCAANTGGANGGGGTNAAANTGNCC
NCTTGANGCTTNTCCTTTNGNGGNCCNTAATTAAAAANGTTTCCCNGGTNTTGGCCCNGG
GNCCGGAAAATNCCTTNGAATTTCTTTAGCCCCTTTTGGGGNGGGCAAAAGCCAGGGNGG
AATCCCNCNNGGGNTCAGNGATTTTNGNAACCNNACCTTGGCCAAAAATNGGGGAAAACC
CCNGTTTTTTTTNTAAAAAATAACNAAAAANTTTNCCCCCTTTNCTTTNGGGGGGGCCCA
CANNNNCCCCCTTTTTTNATANANAANAANAANCCCCCCCCCCCCCCCCCC

Sequence 239

CATCTCAAAAAAAAACTCACAACATATTTTATGTACACCTAGTATCAGTGAGATTTTTTA
ATAATTAGATTTATTATCTTCCATATTGNNTACAAAACTTTCTTCAACTTCATAAAAAGT
CAAGTAACATACTGTACTTACTTCTCTCACCTCATTTTAAAATAGTGGATAAATTGTCAG
ACACAGTGACTCTGCACCTGTAATCCTAGCTACTTGGGAGGCTAAGGTGGGAGGATTGCA
TGAGGCCAAGAGTTCAAGACCAGCCTGAGCAACACATAGAGACCCTATCTCTTTAAAAAA
AAAAAAAAAAAAAAA

Sequence 240

TGTCGACCCACGCGTCCGCGCTCCTGTCATCTCCCTTGGGTCTTCATTTAAATGCCACAC
CAGAGAGGCCCTCCCTGGCCACCCTAATGAAAACTTCAACATCCTCAACCCTAACATTTC
CTGTCCCCTGGGTTATTCCTCCCCTTGGTATTTATCACCATTTAATGTACTATCTGGCCG
GGCATGGTGGCTCGTGCCTGTAATCCCAGCACTTTGGGAGGCCCAGGCGGGCGGATCACC
TGAGGTTAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAA
TACAAAAATTAGCCAGGCATAGAGGCATGCCGCCTGTAATCCCAGCTACTTGGGAGGCTG
AGGCAGGAGAATCTCTTGAAACCGGGAGGCAGAGGTTGCAGTGAGCCAAGATCAAGCCAC
TGCACTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAACAAAAACAAACAAACA
AACAAACAAACAAACAAAAAAACCCAACAAACCCACCAAACATACCATATTTGGTTTCTG
TAAAAAAATAAAAAAGAGAGAGAGAATTTTTAAAAAACAAAAACCATACTATCTAATTTA
CATTTTTAATCT

Sequence 241

CCCCGCGTCCGCTAAGGCATGTGAGCGCCTTGTAGGGCACGTTCTGTCTTCTGACTACAT
AAGCAACACTTTTGCGACCCTAAGTCACAGCACCCACAGCTTTTGGCAGGATACTTTAAA
ACAGAAAAAACACATCATTGATCCTGGCAGGATTTTTTAAGGGATTGTGCTTAAGAATGT
TTAACTTTGGTAATCAGAGACCACCACTGGTGTTTTTCTCCAAAATCACATCTTTAAGTT
AATTAATACTTGAAGTTAATAAATAATACTGCTCAAGTGTATTAGTAATGATGCCATAAT
ACCATGTGAATTTATGCTGATTCAAATGTTGTTTTTTTCGTTTGATACTCATATGGCCTT
CTGTTTTGAGGACTTCAGATTATTTAGCAACTGATTTAATCTGGTCAAGAAATAAACTTT
GCTTCAGCTGGAAAGCGTGAGGCTTGAGAAAAGCAAGGTTTTGGACAGGGGACCTATGAA
GCTCATGTTGAAACTTAAGTGTTTTAAGGCTGTATGGGAACTTGGAATGGGAGTGAAAAG
AACCAAGCCGTCTACTGNCAAGGTTTTTCCCTCCTCCCTCTAAAATTTATAAACCTCATT
CTTAGAAGTGGCAAAAAGTTGGGAACCTTTTCCACTGNTTCACTTCTNTTANTNAGGGGA
TTAAAGGNGGATNGGNAAANGGAAGTTTTCNTGGTTTTTTAAAAAAAANNGNANAANGGG
GGGG

TABLE 1

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Sequence 242
GNCACGGCGGGGCAACCTGGTTCCCCTGGGCGGTAGTCCCGGCAGCTGTGCTTCCCCCTT
CACTGCAGTGCGTGTTCAGTTGGAAACACGGAGATTTCACCTTTACTCCCTGGCTATAGG
GGGATGGTGAGAANGGGGCTGCGTGTNAGGNGANATTCAAGGCATAAATCTTAGNTTGTC
TTTTAAAGAATTGNGTGCCGGGACGTGNTTGGAGGNTGGGTGCANANAGGAAGAGGCGAN
CTNCTGGAGGANGCAAAGGACAGGTCANTNTGCGNANTTCNGNNNGATGCTGCTGANTGA
ACCCCNGNTGCTGTNGCCCCAACAAGAAAGGCTNNGCTNNGATCAAACATTTACTGNACC
TANAAGGCCACATTCTNGCTTAANNANNCCAGGAANGCNCNTTCTTGTTNCCCATTACCA
AAATCATTNACACTTGGTTTTTGGCCCNACATACCTTTCCTTTTNGACCANNGTTCTGGN
NNAAANGGCANTANACCNNNGNATNTNNCNTCATNACANGAATAAAAAGCCCNCAGAACN
CNACANANGNGCCCATCACTANNNNTANAGATNTCAAAAGGGGGCCCNGGATCCTTNACC
ANAGAANACTCTGGTCCNNAGNGNAAGAAAGNAAAACCCCNCNANANGCACTGGGACNNT
NTNATANTTCTNNTTNAAACAAAANCTTATAANNNAAAAAAAAAATTTTT
Sequence 243
AATTAATAAGCCTCCTGGGTGATTTGGCTGCAGGTGGTCCTGAGACCACACTTTAAGAAA
CACTAATCAAGAATCAAGGCCTTATGACTCTTAGTCCTGTTTCTTCCCAAAGGACTATGT
TGCCTCCCTACATTCGAAAACATTCCAAACAATACATAAGAGTCTTTGTAATTCACATTA
GTGCTCGTATTTACTGACTCAACAATTAATTCCTGATTGAGTCATTCATTGAGTAATTTT
CTTTTACTCACTCAGCCTCTGTGGTTTGCCAGGAGCTACAAATAAAAGATTAAAACACAG
TCACACCTCCAAGGAACTCATATAATAGTAACAGAAGTAACTACCATTTCTTGAGCACTT
TATTTATACATACCGTCATACAGTTTATCTCATTCACCTATCTCATTCCCTGCCTTTCAG
TAAGCCTGTATACTATTATAACCGCATAGTTTGGGAATATTTCATATATATATATATATA
TATATATATATATATATATATATATATGTATAATCACATATATTCTCTTCAACTTGTNCT
TTACATTTAATATGTCTTAAAAGTATTTCTTTGTCAGTTCTTGCTTTATATATGTCTAGT
ATTTCTTTATAAGGGCTACAAGAAGTATCCCTCAAGCATTGGATATTTCAATCAAATTAC
CCTTGGGGGGGTNGGGGGAAAAAAATNNGGGGGGGNTTT
Sequence 244
TCGCCCCGCGTCCGGGGAAGGCTAAGGCGCGAGGATCCCTTGAGCCCAGGAGTTCTAGGC
TGCAGTGAGCTATGATCACGCCACTGCACACCAGTATGGGCAACAGAGCGAGATCCCATC
TCTAAACAAATTTAAAACAAACGAACAAATGAAAAATATTGCTGTCTTAAGGTTGGGAAG
GGGCAGAGACCCCTTTGCTTGCTCATCACCAAGACACTTCTGTGAGGCCCCAGGGCTCTT
TGGAGAACGTTTTGAAAATCACGGTTCTAAGTAATTATAGTTACTGTGACTGAACTAATT
TAGCCCTAAGCTTCCTACAATCAAGATAGAGATACACTATGGACTGCATTTCTCCGCTTC
AGATTAAAAAAAAAAAGTTTAAGTCAGAATGTAGTTATATTTTCAGGTAAAATGCTCAAT
ACATTTTCAAGATGAAGCTGCTCAAAATTAAAGCAGTGAGTCCAAGGGTTAATCTGNAAA
AAAAAGTACAATTTACTATCTCCTGGTTNCANACTTATAGACCCTCATAGGTGCATTGGC
TAATACAAGGGGCCACTAAACACATTGTGGCATTTACNGGATTTTATTGGTGAAGNGCTC
TATAAGTTTTATTGGTGCCAGGTAAAAGAAANGCCTCNTATAAAAAAATGGTGGNGGGGG
GTTTTTTTTTNCCCCCCTTTTT
Sequence 245
TTCCGTACCTAAGAATTGTACCCTTTCATAACAGCACCACTTGGATATGTAGAAAGAGTT
TGTTGTGAGATCAGATGTAAAACAAATAAAAGTTATTCGTGAAATGATATGGAAGACTGG
GATTAGAAACTGTGGCATTCAAGAAGCCAGTTAAGCTGTTCTCAGAATTGACAGAGATTC
TAGAGATGGTGTAGTGCAGATGGTGTAGTGCAGGGATTCTCAGCCTCACTGCACATGGTA
ATCTCATAGGAAAATTTTAACAAGGACAGATGCAGAAATTCTTATTAAACTGTCAGGACT
GAAGTCCAGAGGTCACTATATTTTAAAAAGGTCTGCAAGTGATTGTAACATGCATCTATG
GAGGAAAACATCANCGTAGGAGAAAAAGGGAAAGAAACCAACTGGAGTAAAGGCTCTGTC
TTGAGCACTGTGCTGGCTCCTGTCATTCTCCATCTCTTTTTATCTTCATAGTAAGTGAGA
TGGGTTTGACAAATAGGGA
Sequence 246
GCGTCCGGNGTAACTTGAACNAAAGTATTCTCCTTCTTCTGTATATTTGTTCTCAACCCC

TABLE 1

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CAATTCCTCATAACTTTCTAAGTAAGTAGGGTGAAAAGAAAGTCAGGGCTGCCTAGGGAA
GCTACATTTGCTTCTCAAGGCTTGCACCTGCATATTTCATGCCCGACATGTTGCTGAACA
CAGCCGAGTAAAGTGCCAGAATAAAATCAGCTCTGTCCACGTGGTACCAGGAATGCTGCT
GAAATGAAGGTAAGTATAGGATTCCACAGGATCTAAGACAGTCCAGGGAACTGGGACCAA
TTGTGGGAAACCTCAAAGCTGAGCATATTTGAAGAAAATGCAGAGTAAAATGGCTATGGG
CTGCCGGGAGGCCTGGATTTGAGATACCAAGCACCACTGATATAAACACTGATGCTCAGA
AAAAGAAATGATGAGTGTGTATTTGTGTCCCTTGAGACCTAATTTAATTTATAATTATTC
ACCAGAGATAAGAGGCAAGGGATGTCTACTTGCTGGATATCTGAATTTACACAGTTCTCT
AGTCATTAGTATTTTTTACAAATATACCACTCAGACTAGGGGGGCAGAGGATCTGGGGTT
TNAATTTCAAGACCTGTCACTTATCTGCATGAATTTTGNAGCTTATAAGAACTTACAGGT
TAACCTTTTTT

Sequence 247

TGTCGACCCCGCGTCCNTNGTATTTATAAANATAATNCTGNTAGATAAATAAGTGATTCA
TATTTTGTCAAANCTATTTTAAAATTTCAATATTTAAAATATTNTTGAATCACTGGGTGT
CGNTAAGTGGCATCATNNATGAGATTTGATTCCATGTACCATATAATNTTAGATTGGTCC
TNTCTCACCCCTTTTAAACTCCTTCAAGCATTGCTATTACTGGGGTTGCCTTTGGGAAAA
CTTACTTCTAGATACTACCATATATCTGAAATAGTAGAGGTGGATGTTAATAAAATTCAT
AAAATNATCATGTATTACTTTTTTTGATTTACCACTGGAAGGAAATACAGNCATGTGCAA
TATAATGACCGTTTTGGTCATNGAGACCCACATGTGTGACAGTGGTCCCATAAGGATGNG
GCTGAAAANNTCCTGTTGCNGCCTAGTGACACTGTAGCCATNGNAACNCCATAGCACGAC
ACGTNACTCACCTNTTCATGGTGATGCTGGTGT

Sequence 248

CCCCGCGTCCGATTTTGAATGTATTGAGACTAAAGTTCCTTTGAAACATTAAAGAAGATC
CATCAAACTGGCAACTGTATATAAGGTCTGATATCTTCTGGCACTCAGAGGGAGAGTTTC
TGGTGGAGGTGGAAGTGACTTAGGAGTCATCCATGAACATAAATGAGATCACTCGTGTAG
GGAAGAGTTAATGAGATTAGAGAGCCTTGGACAGAGCCTTGCAGCCCAAACCCATGAAAG
AGCAGTAATAGTGAGTGAATTACCTTCTGAGGCAGTGCAAAGTAGATAAGAAAACAAAAN
CTNNAAAAAAAAAAAANAANAAAAAAAAA

Sequence 249

CCGCGTCCGCAGTGGTNGTGATCTCGTCTCCTGCAACCTCTGCCTCCCAGGTTCAAGCAA
TTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGATTATGTCTTGTGTTANNGAAA
TCATTCAATTTTTCACCAGAGAATAAGGAAAAGCAAATTAGACTGTGAATAAAATCTCCA
TGTACCCACTAGGATGACTACAATTCAAAAGGCTGACCTATCCAGGTGAAGATGAGAGTG
TGCAGCATTGGAAATTCTTACACATTGCTGGAGATTTAGAAGCTAAAGAAAGAGGACAAA
TGATTTGGAAGCAAAGATAAGAAGGAAGAAGGAGATGGGGTCTTGCCATGTTTCCCAGGC
TGGTCTCAAACTCCTAGATTCAAGTGATCCACCTGCGTTGGCCTCCCAAAGTGCTGGCAT
TATAGGCATGAGGCACCATGCCAGGCCTGTTTTGAAATTTCATACATATTTATAAAACAT
ATTTTCAGGATGAGAGAATATACCAAGAAGTTACATAGCATTGTGTATCTGTATAGAATA
AAA

Sequence 250

TCGACCACGCGTCCGGGTGAACGTGGTCACCAAGGCCATGGGTACCCTGGGGGTGAGCTT
ATCCTCCTGCAGCGTCCCTGGTTCCAAACCCACCTTCGAGCTCTCAGCCGACGAGGTGGA
GCTGGGCCTGGGGATCCACGGGGAAGCTGGTGTGCGCCGGATAAAGATGGCAACCGCCGA
TGAGATTGTGAAACTCATGCTCGACCACATGACAAACACCACCAACGCGTCCCATGTGCC
TGTGCAGCCCGGCTCCTCAGTTGTGATGATGGTCAACAACCTGGGTGGCCTGTCATTCCT
GGAACTGGGCATCATAGCCGACGCTACCGTCCGNTCCCTGGAGGGCCGCGGGGTGAAGAT
TGCCCGTGCCCTGGTGGGCACCTTCATGTCAGCACTGGAGATGCCTGGCATTTCTCTCAC
CCTCCTGCTGGTGGATGAGCCTCTCCTGAAACTGATAGATGCTTGAAACCACTGCAGCAG
CCTGGCCTAACGTGGCTTGCAGTCTTCATTACTGGGCGGAAAGCGGAGCCGGGTAAGCCC
CTTGCCGAGCCCCAAGAAG

Sequence 251

TABLE 1

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GTCGCCCCGCGTCCGCAAGAAATGATGTTAGTAAAGATACTTTAATTGCGGGGAGTTCTC
TGTTGGCTGGTGAATAAGGACGTTCTCTTTGAGTTCCACCTTTCTTTGAGAAATTTTCAT
GTTTCCTGTACTTTTCCTCTATTATATCATGGAAACTTACTAAATCAGCCTGTGCATTCC
GCCCACATATTCCCTCATGGTGCCTTCCGGTCCTAGCAGCTGAGCCAGGGCCATCAATAA
ATCTTCTTCTTTTCCCCCAAGATATTCCTAGTTGCTTCTTTACTATTCATTCTTGTAATT
CCATTCATCTGTGTGTATCATTTAGGATGCTGGGCAGTTGCATCGCATTTCACCTAAGGT
CACATCCTGATGGGATTTGGTGGGATCCTAGAGCTGGCTAGGACCACTTGTGAGAGCTGA
TTGTTAAATTCTCCGAAATGACGTGACTCAAGTTGTTAGACTGCTTAAAGG

Sequence 252

CCGGTGAAACCTGGAGCTGAAGTGAATTCTCTTAGAGTATATTTTGAAACTGTACTAGGA
CTTTAAACACTTTTGGAATTTAAAACAGCCATAAAAATTCTTGTTATACTGAAGGAGTTC
CTGAGGCAGTGTGCCTCTCATTTTACCACCTAAAGTTGCCATAGAGGTCCAAGGAGACAC
TGCTGATAGCAGAAAGTCTTCCAGAAAGAAATTAGGCGACCCACACCAAGCATGTATGGC
TTTGAGTCTTACAGATGGCTTTTTAATAGTTTAGTCTCTTAACCTAAGGAAGTTTCTGAA
GTTCCGGTCAGAGAGTCTAAAAATTCACATTTTACCTAATAAATGATAATGAGGCTATTT
ATCTTGTCTGTCTGGATTTTTTCACTTGACATTTAATGAAATATCCCATATTACCTATAA
TTTTTATTTGAAG

Sequence 253

CCCCCCGCGTCCGAGATAATGCTGTTTGCTTCCGGCCGCTGTAAATCATAGGTGAAAACC
AGTAGCANGTGCTCACTCAGTGCCTCCCAGAAGCGGTCTGCGGGTCTCAGCTGGGCTGGG
GGCAGTTTTCATTGGGCAAGGCTTGGGCTTAGCTTCGAAGCANGGGCTGGGAGAGGATGG
ATGGGGGTGTGAGAGCAAAAGAAAGACCTGGCTTTGCAGTGATGGCANCCCACGTTCAAA
TNNNAGCTCACCACTGACCNGTCGNNTGACGNGCGCCAGGNGTTAGGAGACTGNAACTGN
TTNTGNGTNNNGNNTCCGGNCGTNCATNNNNNCTGCTCAGCATACANANCCTNTTNCTNA
TCNTAATCCTCATACNCATGNCTGNNNACTNTACACTGTTCTACTTATCAATGACAGGTC
AAAAGTGTTATCATNTGTGACNTAGAATGAGTGAAGTACACNCCCTCTTGGAAACTATGA
ATGACTTAAAGAATCACCNTTTGCAAAAAATC

Sequence 254

GCCTTCGCCCCTGCCTCCTCTTGGCTGCGGCTGGTCATCTTCCCACCTCCACAGTGGGCC
GAGCTGCCAAACAAGGGGTACACATGTGCCCCCTGACATAGGCCAGGTGGTCTCTGCCCT
CTGTAGCTCCCATGAGAGAGGGCTCCTCGGACCGAAACAGGAGGCCACTGCCCTTGCGCA
CACACCGTGGCCGGGTCCTCCTGGGCGGAGCGCTTTCCGTGTGTGGGAAAGTCAAGGGCA
GCCCCGAGCCTCGAAGCCCAGGCTCCCAGCCCCGCGCCATGTTGCATTCCCGCCTCTACT
CCTTGGTAGGCTGGNTGCTTTGAGTGGTTCTTTTTAATTCTTTCTGTTGGTTTCTCCTTT
TCCTTTGCCTGGGTTTTGCTTTAACCTCTCTGTTGCAGAGATGCAGAGCACTCAGAGAGC
CTATTTCTATCATCGCTTTCCTATTCTCCACCTAGAACCAGNTGACTGGCCGCCCGAGTG
GNGTCTCTTGTGTGTGTGGTGCCGTCAAAGCTGTGCAAAGAAATGCTTCTGCCTAGGTTT
CTTCGCGCCCCCCCCCTTGCTTGGCTTTTCCTGCCTGCTTACACCCCCGGTTCCTGATCTG
CCCTGGGC

Sequence 255

GCCCACGCGTCCGCAAGANAGCTCCTCAGATTTGTCATAGACTATATTTAAAGAAAGGCC
ACATTTTTCTTATTTAAAATGCATTAAACAATGCANCCAATTAAAAGAACTGAGNTGGAT
TTGTACAAAAGCAGGGACTAGGTCTGNTTTGTTCACTGCTATATTCCCAATGCCTAGAAC
CATGTCTGGCAAACATACTGGCATGGGAAGAACATTTCCATAACCCCTGAATGTTCTGTG
CCCCTTTCCAATTAATCCCTACCCTCAGAAGCAACCACTATTCTCATGCTTATTACATTA
GTTTTGCCTCTTCTTGACTTTCATATAAATGAAATCATACATCTAANAAAAAANANAAAA
AAAA

Sequence 256

TCGACCCCGCGTCCGATTTGATATAAATAGTTATGTTACTCATATAGAAATCTCTTCCCC
ATTACACACATACAAACATTTATCTATGAGTGGCTTATAATTGCAAATAAGATGTAAATC
ATGCTCATGATCATTGTCAAAATTGTGAAAGATTTTTTTCTATACCTCTTTTAGGTTTGT

TABLE 1

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TTTGTTTTTGTTTTTGATTTCCAGGTGGCATTAAAGACAAGAGGGAATAATATTCATTCT
TACTTCTACTCCCAAGTCACTAGTTTGCTGAATTTAATTGAGTTAAAGAATTGTATCAGT
CTTCTTGGAAGTCTAATACAAAACCAGTTCAACACTAGTTATTCATTCTTTGCTAATTCA
CCAGAATTGAAGGATGGATAAAATGAGAAAGAGAAGTAGTTCTTCATATTATTAAAATAA
AGAGTTAAATTAGACACTTTGTTGGACTCTTTGGTCTTAATAATTCCTACTCTTTTTGAG
GTCCAAAAGTTTTGTCTTTGATAAATATAATTTTAATGGG

Sequence 257

AAGTTGGGAAAATAATTCATGTGAACTAGACAAGTGTGTTAAGAGTGATAAGTAAAATGC
ACGTGGAGACAAGTGCATCCCCAGATCTCAGGGACCTCCCCCTGCCTGTCACCTGGGGAG
TGAGAGGACAGGATAGTGCATGTTCTTTGTCTCTGAATTTTTAGTTATATGTGCTGTAAT
GTTGCTCTGAGGAAGCCCCTGGAAAGTCTATCCCAACATATCCACATCTTATATTCCACA
AATTAAGCTGTAGTATGTACCCTAAGACGCTGCTAATTGACTGCCACTTCGCAACTCAGG
GGCGGCTGCATTTTAGTAATGGGTCAAATGATTCACTTTTTATGATGCTTCCAAAGGTGC
CTTGGCTTCTCTTCCCAACTGACAAATGCCAAAGTTGAGAAAAATGATCATAATTTTAGC
ATAAACAGAGCAGTCGGCGACACCGATTTTATAAATAAACTGAGCACCTTCTTTTTAAAC
AAACAAATGCGGGTTTATTTCTCAGATGATGTTCATCCCGTGAATGGTCCAGGGAAGGAC
CTTTCACCTTGACTATATGGCATTATGTCATCACAAGCTCTGAGGCTTCTTCTTT

Sequence 258

GAGTCGACCCCGCGTCCGCTCTGGAGGAAGCATAGATTAGAATCATGATTTTTATCTATT
TTAAGAGAATAGAAGAACAGAAGGGGTTACAATCTTGCAATATTATGCAACTCTTCTGCT
CTAATATATCAAAAACTTGATGATCCAAGATCATGCAGAACAGCTGAGAAGAAATCAAAG
TAAACAGTGTACCTTGCAGCCAACAGATCCTGCCAATATGAGATTAGAACTCTCCATCCT
AGCAAAAAAAAAAAAAAAAAA

Sequence 259

CTGGTACCTGCGAGTCGCTGCAGCAGCTGTGGCAATTGTCACCTTCATCCAGGCCCATCC
CGCTTTGAGGGCCTAGAGAGAGTGGGCCAGAGGTTAACCCCCGATTCATCTGCCTCCCCA
CGCTGGGCATCTGGGTGTGCCAGGGCATTCCCCCGCTGGTCAGACAGGTTTTTGGGCCAG
GGCGGGGCTGACCAGGGTTAATTAGAGGGAACTGGCTAGGAGGAGCTGGGGAGGGGGCTG
GGCAGAGTCCAGGCCTNCAGAGCCCCTGGGACACAGCAGGTGTGTGCTGCCATGGGCCGG
GGCTTGAACTCTGCCAGACTCAGGCGCCAAAAACGGCGCTTGCGACCTCAGGTCCAGAAG
CCCCGGCAGCAAGCTG

Sequence 260

TCGACCCCGCGTCCGAAACTCTGTCTAGTCTAAACTATTATTCTATACTTCTCATCTCTA
TATGTTAAGGATTGATCTCCAAGATAAATTGTTTTTTGTTTGNTTTTTAGGGACAGGATC
ATGCTCTGTTGCCCAGGCTAGAGTGTAGTGGAACAATCATAACTCACTGCAGCCTCGAAC
TCCTGGGCTTAGGTGATCCACCTGCCTTGGCCTCCTGAGTAGCTGGAATTCCAGATGCAA
GGCACCATGCCTGGCTAACTTTTTAAAATTTTTCATAGAGATGGGGTCTTACCATCCTGC
CCAGGCTGGCCTCGAGCTCTTCACCTCAAGCAGTCCTCCTGCCTCAGCCTCCCAAGGCAC
TGGTATTGCAGGAGTGAGCCACCACGCCCAGCCCAAAATAATTNTTTTTTAAAGCAAGAT
GTAGAAAAGTGATTATAATATGTTTCCATTTAGGCAAGAAAAAAAATGGAGAGGACTATA
CCTGTACTCTCTGNACATAGGATCCACAGAAAACTTCTAATGGATGGTTATCCCTGNGGN
GGGAAACTGGGGGACAGGGAATGATGAAGCAGGAAAATTTTTACTGGATAAACTTTAGTT
CTGGTGGCTCTTTTTCTTCTATCATGNGNATGGTAACTT

Sequence 261

GTCCCGCAAAGCCTTTAAAAAGAGTCCGAATTTCACTTTTCACCTTTTGTAGATGTGCAC
GTGTAGCTGTAGAGCTCATACTTACGTTTCACATGGCATAGTTGATGGATATGTAGGTGT
AAAGTTTATGGTAGTGGACAGGCTGAGAATGGTGTATCTGTGACAAAAAATCTGATGGAA
GTGATATATTTGATATGAAAGTGAACATTTTCTTAGTTGGGTGTTTATAACTTTTTTTTG
GTAAATTGTTTTTAGTTTTTATCCTTATTTTACTTATGCTTGGCAATAGATGGTCTTTTT
TCCCCAAATCTTCTTCTGAATTCCAAGGAAACACTGTTTTAGCATTTATTTGATTACTTT
GGTTCATTCTTTTCTCCACTCCCATTTATTTGTTTTCCATTTTGTAACTTCTATAAAGCA

TABLE 1

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GATAAAAATCTGGAACTTCTAGATCTGACCTTCATGCCTTGTCTTTTCTATGGTACTTAT
TCTTTCTGTCTCCTTCTCATTTTGGATTGGGCTTATGAGAGAAATCTTGGGGTTGATCTT
CCAGCTCACTAATTTGATATTCATTTGTGTCTCTTCAGTTACTTAGCTTGCCTGAAAACT
TTTTTTTTCAGCAATTGTGTACTTAATTTTCATA

Sequence 262

CCNCGCGTCCGTGCCCTGGGGCCCCCCTGGGCGAGCATACCCTAGGCGTCAGGCCTGGAG
GTCTCCTCGGTGCCTCCCAGCTCTTCTGTGCTCCTCACACTCTGCTCTGNGCANATTGGC
TGTATTTGTAGGTTACTGCCTTTTATTTCTCACATTTCTTTTTGGTGAGAGTATATCAAT
CAATCAATCATCCTCAGACCTCTATGATAACACTGTGCCCCACACACAAGAAGCTACTCA
ATTAATGTTTGTTTGTTGAAATGAGAGAAAATATTTGTCCTTAGTACAGAAAGAAGATGA
AGCCAACCTCTGATAGAAGCCCACCCATAGACTAGGGTGTTGAGCTGCCTTCCAA

Sequence 263

NCCCCGCGTCCGGTAGTTGCAGAAGCATGTTCTTGAACTTATCAGTCCTGACCTCAGATT
TCATCTTCTTCTGGTAGATGTAGCATACATCTCTGAGTGTTATTAGAGGACCAGNCTAGA
GCCTCATCGTACTCCTTCAGTTACTTCATAATCATCCAGCTCTTTATATTAAATGTTTTT
CTGTTTAAAATGGCAGCAATGTTTTTTATTTTTTGAAATGGTCCCTGACAGCAACAGATC
TTCTCGTGTTTAATTATTGAGTCTGTGCTGATTACACAGAATTAAGGATATAGTTTCTAA
AGTACTTCCATTTTTATATATTTTAGCATTATTCTGAAAGGCCTGGAAAAAAACTATTTT
TTATTCGATTTGAAAGTGAAGTGACATAGGTGGGTCGCTATAGCAAGAAATTACCCTGTA
TTTTTCCATCTCTATCATCACAGGCATCTCACAGAATTAGAAGTCGGACATTATTGATGG
ATATATTAGTCATGAATAATTAAAATACATTAAATATAAAATGGGTCAGATACGGGCAGA
TTT

Sequence 264

CNCGCGTCCGGGAGAAAAGAGTTTTATACCTAATTCTTNTGCAAGTGATTACATATTTTT
ATACCCAGGATGTTCAGCAAGATGAACTTTATTTTTTAGATGTATCTATGGNTTTTCCAC
CCATTTTATTAATTTTTAGAAATATAAAAGTGCCTTTAAAATTTAGCTGGGTTAAGATAG
TAAGTTTTAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGCGGAGGTTGCAGTGAGC
CTAGATCGTGCCATTGTACTCCAGCCTGGGCAACAAGAGCGAAACTCAGTTTCAAAAAAA
AAAAAAAAAAAAAAAAAAAA

Sequence 265

GATCCTCTAAGTNCCCAATGATCNGAGAAGAAATATGAAAGGGAATTTTAAAATATTTTG
AACTGAATGAAGATGAAAATGCCACAGATAAAACTTTGCATGGGGNAGCTACATTAGTTA
GCTTAGAGGGAAATTTATATTTTTAAATTCTTATATTAGGAAATAAGTCTTACATAAATA
ATCTCAGCTTCCACCTAAGAAGTTCAAAATAAACCCACAGTAAGCNGAAGAAAGGAAATA
ATAAAGCTGAGAAAAAATCAATAAAGTTTAAAAGAGAAAATTAATAGATATCAATGGAAC
AAAAGTTGCCTTTTTAAAAATATCAACAAAATTGATAGACCTTTAGCCAGAATGATCAAA
AAAAAAAAAAAAAAAA

Sequence 266

CCCGCGTCCGCCTGAATTTCAGAGTCNGTTGAGAAGGTAGGGAGCAGGGATCTCTCAGAC
ACCAACATGTTCAGCTTTATTATAGATAAGGCTGAATTGATTTCCTGGAATNGACCTTAC
TTCCCCACCTCCAAACTGCAGGCCTTCCCCTTGCAGGTTCAGAACATGTTAAGGTAAGTT
CACTGCAGAGATAAACAGGGTGAGGACAGGCCAGTCCTAAAAAAAAAAAAAGAAAAAAAA
A

Sequence 267

CCGTTCTTTTTCCNAAACTAAAGAATGCATAGGACATAAGTTAAAAGTTCATACATAACC
TGGCTTCAAATCCAGTTCTACCACTACCTGAAAACATCAGTTTATTTCTCATCAATGGGT
TGTTATAAAGTACCTAGCATAGGGTATTGCTTAAATGTTAATACTCCCAATCCTGACACT
AATGTTTCAGGGAAGAGTGAAAGAAATCACATTAACTCCACATTATTGAACATCTTCTGT
GTCAGGCTGAATACATCTTTGTATCCATTGTCTTCTGGTTGTTTAAAGACTAGTGTAGAA
GCCTGACATGTAAATCGGTGATTATATAAGATAGTACTGTCTTGTAATGTGTTGTGCTAG
AGAGGTTAAGTATTAATTATTATGGGAGCTCAGGAGAGGCACCCACTGGCTGCTGGGAGA

TABLE 1
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AGAGCAAAAACCTATATATAAAGCAATTTTTAAGATTTTGGTTCTATAAGGGTAGAATGT
TCGATCCATTAGTGTATTCCCAAAGTCCTATACACATGTCAAGATCGGGAAAGCTCACAC
ACACAATAATGCCCAAG
Sequence 268
CGTCCGGCCCCATGCCCAGCCAAGTTATGTTGTTTGGTCAATTTTAGATAATTAAAAAAA
AAAATCCTATGTAGTAACATCCTACTAGGAAAGAAGATAAACTCAANTATCCACTGAGTG
GTGACCTGAAACCAAAGAGACATGGAGGGGCAGCCAGTCAAAAGCCACTGCACTCCAGCC
TGGGCAACAGAGCAGGACTGTGTCTGGAAAAAAAAAAAATCTAGAAACATACTCAAATGT
AAACATAAGAACTTAGCATATGGTAAAGTTGTGACTGTGAGTCAGTGCAGAAAAGAATGA
ATCAATCAGTAAATGGTCCTGGGAAAACCGGCTATTTATTTTAAAATAATAACAAAATAT
GCTGTATATCATCAATGGATTAAAGATTTATATACCTTCAGCATATGTCCTTAAATGTTC
TAGAATAAAATATATATGAATTCAATGTAATTTTTGATGTGAGGGAAGGCCTTTTAGACA
TGACACAAATGTCAAAAAGCATAAAAGGAAAGATTTTGAATAAATAATAAAC
Sequence 269
GCGTCCGACAGATACACCATCATTATAGGTGGCCAAATCATTCAAATCGCTGTTTGCTTC
TTCTCGGGCTCTTATTCAAGCTCACGATGCTATTCTCATAGTGATTGCGAATCTCACTGC
ATAAAGGTGATTTTGAAAACATCACTTTTCCTCCACACTAATGTGTGAGCTTAGCCAGAG
TAGGAGATATATCTTACTTAAAAAAAAAAAAAAAAAAAAAA
Sequence 270
CCCTTTTTTNCGGCCNTNCGGGCAGGTACGCGGGGAGGTCATGCCCGTGTGAGCCAGGAA
AGGGCTGTGTTTATGGGAAGCCAGTAACACTGTGGCCTACTATCTCTTCCGTGGTGCCAT
CTACATTTTTGGGACTCGGGAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTCAGAG
GTCCTGAAATAAGTCACCATGGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCCTTCTCA
TTCCGATCGCTTTTTGGCCTTGATGATTTGAAAATAAGTCCTGTTGCACCAGATGCAAGA
TGCTGTTGCTGCACAGATCCTGTCACTGCTGCCATTGAAGTTTTTTCCAATCATCGGCAT
TGGGATCATTGCATTGATATTAGCACTGGCCATTGG
Sequence 271
ACCGCGGNGGCTTCATGCAAGCTGTGGGCATGGNCAACGATCACGAAAATCATTNTTCCT
TTAAATAAAATACAATCCTATNNAAAGGAGTNCTTCCATGAGCAACAATCAAATACGTGC
TTATGCTGCGATGCAAGCAGGTGAACAACTGGTTCCTNATCAANTTGACGCAGGCGATTT
ACAAGCCCATCAAGACGAAGTCAAAGTTGAATATTGTGGATTATGTCATTCAGATATTTC
AAGTGATTAATAATGATTGGCCGATCATCTACTTATCCTGTAGNCGCAGGTCATGAAATC
ATTGGAACCATCACTGCTCTTTGGTTCATGAAGCGAAAGGACTCAAAG
Sequence 272
CCCTTAGCGTGGTCGCGGCCGAGGTACACCAAGACCAATTGCTAAAATCTTGGATTATGG
AAAATTTAAGTATGAAAGAAAGAAAAAACAAAANGTTGAAAAAGAAAAACAATCTTTCAC
AAACAATAGAGAAATTCGTTTATCTTTTGGAATCAATTTAAATGATATAAAAATCAAAGC
AAAAAAAGCCAAAGAATTTTTATTAGATAACCGACAGAGTAAAAGTGGCTCTTCGTCTTA
GAGGGCGTGAAAATACAAGACCTGAACAAGGTAAATTAATTTTAAATTCTTTTTTTGATG
AAGNAAAATCGATTGCAAAATTAAAGTAAAGAANNGCAATCAGTTTGGTAATTTTTTAAC
TCTTCATATTGAACGTGATAAGAAAAAATTACCCAAATTTACTTCTTCAAAACAAATAAA
GGAATTAATTGATTTTGAAAAAACTATTNAAGGAAGGAAGAAACTAATGCCTAANGCCAA
AAACAAAATCGCACTTTAAAAAAA
Sequence 273
CCCTTAGCGTGGTCNCGGCCTTTGTACGAAATTATGACTGTTTTAGCTNCAGGAACAGAT
TTAAAAGTAATTGAAGACGTTTTAAAATCTGTTTTTGATGCTAAGAACATCGAAAAAATT
GAAAAACTTGAAAGAACAGAGTTAGCATACGAAATTAAAAAACACAAACAAGGAATTTTT
GTTTTAGCTAACTTAAAATCTGAGGAAAGTTTAATCGAAGAATTTGTCAGAAGAGTAAAT
ATTCTCAAAAAACAAGTTTTAAGATTTTTAGTTATTAATCTAGATTCTGAAAGAGGAATG
CACAAAACTTTCAGACCTAGAAAAAATGATAAACACAAATTTTTCTCTTCTAAAAAACCA
ACANCTTCAACAGAAGAAGGTAAAAGTTTTCAAAAACCATTTGTCAAAAAACCTTTTGTT

TABLE 1

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AAAAAATCAGAAGAAACAGATTCTTCAAAACAAAATGANCAAGACAAAGTGCTAAGAAAA
CCAAAAACTGTAAAAACCAGCAAAAGATCCTAAAGTAGCTCACACAGCAAAAAAAAAAAA
NAAAAAGTCCTGC

Sequence 274

CCCTTAGCGTGGTCGCGGCCGAGGTACNAAATTATGACTGTTTTAGCTCCAGGAACAGAT
TTAAAAGTAATTGAAGACGTTTTAAAATCTGTTTTTGATGCTAAGAACATCGAAAAAATT
GAAAAACTTGAAAGAACAGAGTTAGCATACNAAATTAAAAAACACAAACAAGGAATTTTT
GTTTTAGCTAACTTAAAATCTGAGGAAAGTTTAATCGAAGAATTTGTCAGAAGAGTAAAT
ATTCTCAAAAAACAAGTTTTAAGATTTTTAGTTATTAATCTAGATTCTGAAAGAGGAATG
CACAAAACTTTCAGACCTAGAAAAAATGATAAACACAAATTTTTCTCTTCTAAAAAACCA
ACAACTTCAACAGAAGAAGGTAAAAGTTTTCAAAAACCATTTGTCAAAAAACCTTTTGTT
AAAAAATCAGAAGAAACAGATTCTTCAAAACAAAATGAACAAGGACAAAGTGCTAAGAAA
ACCCAAAAACTGTAAAACCAGCAAAAGATTCTA

Sequence 275

CCCTTAGCGTGGTCGCGGCCGAGGTANTTNCCTGANCAGTCGAAGTGGATGCCCAGACCA
ATGGCCAGTGCTAATATCAATGCAATGATCCCAATGACGATGATTGGAAAAAACTTCAAT
GGCAGCAGTGACAGGATCTGTGCAGCAACAGCATCTGCATCTGGTGCAACAGGACTTATT
TTCAAATCATCAAGGCCAAAAAGCGATCGGAATGAGAAGGGGGCTTCAACAGCAGGCGGA
TCATTTTCCCCCATGGTGACTATTTCAGGACCTCTGACATCCGGCTCCGCCTCCACCTCT
ACCTCATAATTCCCGAGTCCCAAAAATGTAGATGGCACCACGGAAGAGATAGTAGGCCAC
AAGTGTTACTGGCTTCCCATAAACACAAGCCCTTTCCT

Sequence 276

CCCTTTCGAGCGNCCGCCCGGGCAGGTACGCGGGGAAATGCAAAAAAATCAAATCAATTT
AATAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGGGATTGTATTTAAAGATAT
TTCACCACTTTTAGCAAATGGAGAAGTGCTAAATTACACAATTAATCAAATGGCTGAGTT
AGCTAAAGATGCAGATGTTATTATAGGTCCAGACGCAAGAGGTTTCTTGTTTGGGACACC
TACTGCAGCTTTTTTAAAAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGG
AGACGTTATTAGTTTTGAGTATGATTTAGAATATGGTAAATCAACTCTAGAAATCCAAAC
TAATATGTTGAAAAAAGGCCAAAAAGTAGCAATTATTGATGATGTTTTAGCTACTGGCGG
AACAATGAAAGCGATTATTAACTTAATCGAATCTCAAGGTGCTGGTTGNTCATAAAGTAA
TCTTTTTACTTGAATTANGATTTTTAAACCGGAATTGAAAAACTTAAAA

Sequence 277

CCCTTTCGAGCGGCCGCCCGGGCAGGTNCTTCTAANGTTAAATCCTGAGGTAAGTCAACC
AAAACAGGATGTGAATATCCTAATAATAATTCTAAAGTCTTATCTTTTAATGTTGCTCTG
TAACCAACACCTTTGATTTCTAATTCTTTAGAAAATCCTTTANAAACTCCGGTTAACATA
CCTTGTAATGATGAATTTGTAGTTCCGNGTAATTGNTTAATATTTTTTTCTTCTGATGTT
CTTTTAGTAAGTAGAGTGTTTTCAACTTTTTCAATTGAAATAAATGATGAAAATTCTCTT
GATAATGTTCCTAATTTACCTTTTATAGNTACTNAAGAATTGTTAATGTTTACTTCAACA
CCTTCTGNTATTTGTAAAACACGATTTCCGACACGAGACAATATTAATTATCAAATGTAA
GCAATGGATTTCACCACCTACATTTTTCCCTTTCTTGCNTTGTATAATTAGGTTNAATAA
ATCCTTT

Sequence 278

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGATAGTNNTCTCAGTAAAAGGTCTATTATCT
AACTTGCCAAACTTGTTTACTGAGAGCCCTAAGGAACTAAAACTGCCATAATGCCGTGCA
CAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCCTCCCTTCCAGTTCCTCAGC
AGGCCTGGCTGAAGGCCCAGGAGGGAAGGAAATATAAGANCCAACAATAAAAATAGCACT
AGCAATAANAAGAATGCCATCCCATGGAGCACACCATAAT

Sequence 279

CCGAGGTACTAAACTCTNTTTAATGNNCTAACGTCATATTTTTTAAGTTTTTCAATTCCG
TTTAAAAATCCTAATTCAAGTAAAAAGATTACTTTATGAACAACAGCACCTTGAGATTCG
ATTAAGTTAATAATCGCTTTCATTGTTCCGCCAGTAGCTAAAACATCATCAATAATTGCT

TABLE 1
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ACTTTTTGGCCNTTTTTCAACATATTAAGTTNGGATTTCTAAGAGTTGATTTACCATATT
CTAAATCATACTCAAAACTAATAACGTCTCCTGGGTAATTTTTTAGGGTTTNCTTACCAT
AAATAAAAAGGGGTTTTTTTAAAAAAAAGCTGGCAGTAAGGGTGTCCCAAACAAAGAAAA
CCCTCTTGCGGTCTTGGGACCTATAATAACAATCTGCATCTTTAAGCTAAACTCAAGCCA
TTTGGGATTAATTGGTGTAAATTTAAGCACTTTCTCCATTTGGCTAAAAAGTGGGGNGAA
AATATCTTTAAAAATACAATCCCTTCAATTGGGGAAAAATCTTTTAACATCCTCTGGATG
GNATTTCTATTAAAAATTGGATTTGGA
Sequence 280
TATTTGGTGAAGATCAGCGTTATCAGCATTTTCTACGATTAAACGCTGGCCATGCTTTGA
CTGATGAAATCCGCCAAGCTATTCAGCAGTTGGCGGATTGGGTCAGAGAAAGTCTCAAGT
CGAAATTGAGTTAGTCGAAGTCTGCTTTCAATACGATGCGATAACGTGCTTGACCTGAAT
GAAGTCGCTCAATGGCATCGTTGAGCTGTGACATAGGATAGAGTTCAATTTGCGGGGCGA
TATTTTTACGTGCTGCAAATTTGAAGAAGTTGACGAAGTGCTAAAGGAGAACCCGTCGGT
GAACCTGTTACTGATTTGGCACCATCAATCAAAGCACCCGACTGAAACTGGGAATAGGTT
CTAAAAGTCAGACCTAGAAAAATG
Sequence 281
NGGTACCTCCACCGCGGTGGCGGCCGAGGTACANCCTCTCGGCCCGGCTAAACATCATCG
TCTTGGTAGGTCATTACCNTACCAACTAACTAATGNTCCGCACCCCCATTTTTAAGTGAA
GCTGNGAAGCTCCTTTCTATTACTCATCATGCGATAAATAACTATATCCGGTATTAAGCT
ATTGATTCCAATAGTTATCCCAGNCTTAAAGGTAGGTTAGGTACCTGCCCG
Sequence 282
CGANAAGCANGATTTTNAATTNTTGCAGCCCGGGGGATCCGNGGAGNGGGGAGAGCCCAC
CGCGGGGGAGCGCCAACACGACNNAGAGCGAGNCGNAATACGCGCGCACACNGACCGCNG
ANNAACAAACGNNGAGACGGGGAAAACCCNGGCGNCCNCAACAAAAACGCCCGNGCAGCA
CAGNCCCCAAAAGCCAGCNAGGCGGAANANCGAACAGGCCCGCACCNAGCGNCCGNCCCA
ACAGNAGCACAAGCCCCGAANGGCGAAAAGGG
Sequence 283
AAACCCCCTNAAAAAGTNCCAAGGGGCCGCCAANNCGACTANAGCGAGNCGCATTACGCG
CGCNCACTGTTTGTCGTNNTTAACGCCGCGACCGGGNNGAACCNGGGCGNNACCCAACAG
GAAGCGCCGCGCANCACAACCCCCNACGCCAGCAGGCCGAnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnAGNGGAGGAAACAGCGCAGCAGAGACCGNNACACANGCCAAC
GCCCNAGCNCCCGCNCNNNACGCNAGCAACCCCACCNAACANCGNCCACGNACGACNGCN
NGCCCCCGCNCAANCNCNAAAACGGGGGCCCCCNANNANGGGGACCCGANAAANCGCNAN
NACGGCACCCNCCGACCCCAAAAAACNNGAAAAAGNGAGAAGGGAGCACGNAAGNGGGGC
CAANCGCCCCNGAAAAGAACNGGCGNCCCGCCCNNANGAACGAANGGGANGACCCACGNC
CCNAAAAAANAGGGGGACACCCGAGNNACCCAAACGGGGNAACAACACGCAAACCCNAAG
GCCGGCCGAAACGNGAANGGAACCAACAAGGGGACACANGCCCGAAAACCGGNCCAAAGG
GGGAAAAAAAAAAAGAAGCCGNAANNCAAACAAAAAANCNNAACGGCGAAAGNNNAAACAA
AANAAGAAACCNCNAACAACNCAAAGGNGNCACNNNNNCNGGGAAAAAGGGGCCCCC
Sequence 284
CGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATNGGAAACAATAGCTAATAC
CGGATATAGNTATTTATCGCATGATGAGNAATAGAAAGGAGCTTCACAGCTTCACTTAAA
AATGGGGGTGCGGAACATTAAGTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGT
TNAGCCCGGGCCCGAGAGGCTGTACCTCGGCCCGCCACCGCGGTGnnnnnnnnnnnnnnn
nnnnnnnnnnAGNCGTATTACGCCGCGCTCACTGGCCGGCGnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnACTTAATCCGCCTTGCAGCACAATCCCCCTTTTCGCCAG
CTGGGCGTAATAGCGAAAGAGGCCCCGCACCCGAAC
Sequence 285
CGTCCGTNAGGCCTGTNCTTACGGCTGGGTTTAGAAACCAGCCCATTCAGAAAGACTGAA
TCAGAACATGGATNAAGTGAACTNATTCTAAGATGACTCGNNTATCCATGTNGATTAATC

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TNCTGGNTCATAATAGGCCTCTTCCCTTTGATTGAAGGGTCACGTNTAAGTATANAAAAC
ATAAAACTGTAAGGTAGAGGAAGCGAAGGATAGCTTNGTATTAATGTTGCGTTAAAGCTT
CAGAGACAAGAACAAGAACACTCCTCCCACGTGACAGCATTTGAATAGGAGGCGGNGGGT
GCNGCAGCCTGGGCAGCTTCAGTCCCGATTTACAATAAAGTACCTTGNGNGTNATTAGTT
CTTAAATGTTTATTTAGAAATGGCATTGATGTT

Sequence 286

GCGTCCGGTCACCGCACTGAACTTCGGGACCAAAAGCTTCCATGCCGCGGNCCCCAGACA
AAGGCAGCTTCCCGCTGGACCACTTCGGTGAATGTAAAAGCTTTAAAGAAAAATTCATGA
GGTGTCTCCGTGACAAGAACTATGAAAATGCTTTGTGCAGAAATGAATCTAAAGAAGTAT
TTAATGTGCAGGATGCAAAGGCAGCTGATGGCACCGGAGCCGCTAGAGAAGCTCGGCTTT
AGAGACCTAATGGAAGGGAAGCCAGAGGCAAAGGATGAATGTTGAGAAGGGAGCCACAGG
ACCTTGTCCCCAGCCTGGAGCAGAGCTGAGCCCTTCTGCCCACAGNGCAGGGGGACCTGA
CACTCAGCCCGTGCTGGCCCGTGCAGGGGCTCTCCCTGGG

Sequence 287

CGTCCGGTGCACTGCAACTTNTATATNTAACCCTAAACTCCAATAAAACAAATTCCAGGG
AAAACCAAGGGTGTAATGGGATGTGCGTGTTTATCAGGAGTGTGCTCTCACGTGGATGCT
GAATGATGGAGGACAGCGGACTGCATAAGCCAGAAACCTGTACGGGTGCTGGCTGTGGAA
AGACGTGTCTGTCTCTATCTATGTACAATAGTTNATTCTGTCAGGCTGAAAAAGTATGGT
CTTTAGGACCTTGCCCCTCTAACTATAGAAACTTAAACAGTGTACTGCTATTAGATATAT
CTGATATTAATAGAACATGCCAAGTGCAGGTCCCAAATGCGTATTTGTGAAGCACACATC
TGAGTAAATGGCTTAGATGGAAAGCAAGTCATCATGAGTAAAAATTAAGCCTCAAACCTG
CCGGTGCTCCTCACCTCTTTGTCACCAGGTAAAGGTCACACTGTGTGTTGCTTTTGNTGT
CTTCTCTTCCTAACCTAG

Sequence 288

CNCGCGTCCGGGGCTTGTTTACTATGGCCGATGATCTGGAGCAGCAGCCTCAAGGCTGGC
TGAGTAGCTGGCTGCCCACGTGGCGCCCCACTTCCATGTCTCAGCTGAAGAATGNGGAAG
CTAGGATCCTCCAGTGTCTCCAGAATAAGTTCCTGGCCAGATATGTGTCCCTCCCAAACC
AGAATAAAGATCTGGACGGTGACTGTGAGCCCCGAGCAAAAGGACCGCACCCCCCTGGTG
ATGGTGCACGGTTTTGGGGGCGGCGTGGGCCTCTGGATCCTCAACATGGACTCACTGAGT
GCCCGCCGCACACTGCACACCTTCGATCTGCTTGGNTTTGGGCGAAGCTCAAGGCCAGCA
TTCCCGAGGGACCCGGAGGGGGCTGAGGATGAGTTTG

Sequence 289

NGGAAAGCCGGCATAAGTGACATNGTTTGGGCAGTTGCCNGCTGGACTGAAGGGCNAACC
CANACCACCTTAAGCCATAAAAGCCCGTGACACTGCTANCNAAGGTGCCTTGCCCACCGC
TTTGCCACCNGTCCCGGAAATGNAAAAAAAGTCGCGTGCCNTAAAAAAGCTGCCGGAAGG
NCCTGGGTGNACNTTTGGGCCACCCCCACCCCGCTGGCAAGGNCTTGAATTGNGTNACNC
CAAAAGACGCCCANGCCGGACCTTGGNAAANNATTGTTNTTTNGGGANAAAAAAAAAATG
GANCCCGNTGGGGGAGGCCCTTGGGGGCATTGNGNAAGCCCCCGGAGGGTTCCCCGNTGT
TGGCNGGGGTCAAATTCAAAGGCCAGTGGTNGGCCACCCCGGGGAACCTGGNNGCTGTTG
CAAGNACCNNGGTGGGGAACCGTTTCAAGGAATACCCCAACCAACCCANGTAGCCACCTT
AAGGTAATTTGGCCCACCTTGCCCACCANAANGNGCCATTGGGGAAGAAACCACCAAAAA
CGTTCCCCCCGGGT

Sequence 290

CCCCGCGCTCAGTATGACTCTTTAGTCCCAGTTTTCATGGGTAGTCTCTAAATTCTTTAC
CTTTATGTGATTGTGAGTTGGGAGGTGGTGGGCATCATCTTAGTCCATTTACCTTTTTCA
GTTTTGTAATTATCGTCTTCATCTACTACCTTTATATAATATAAAGGGAAGGGGTCTTCC
TTTACAAATAGTTTTATCATCCTTCTCTTTTTGATGTCTATATCTTCTATTTTTTGAGGA
GAATATATGTTGTATAGACCTACACGTGGGTGGAAGAAGAGTCATGTATGTGTGATTGTG
TGAGATCCAGAATGTTGGAACTTTTAATTTCTTATTTTGTACTTATAATTACCTGCTGGA
ATACCTGGTTGCATTCTGTATATTGTACCCTCATTTAAAAGTTCATGGAGGCAAAATAAC
TCTGTTGCACATAAGGCCGGGGCTTATGCATGTCCTATCGGATGTGGGCTCAGATCACGG

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AAGACCCGAA

Sequence 291

TCTTGCAGACTCAAGCTCCGCGCGCAGCCGCTCCTGGTGCGGGCCCACAGCAGCCTGGGC
CCCGGNTCGGCCCCGGAGCCCCCTGGCCTGCGACGACTGTTCCCTTCGATCGGCCAAATC
CTCCTTCAGCCTCCTGGCGCCCATCCGCAGCAAGGACGTTCGCAGCAGGAGTTACCTGGA
GGGCAGCCTNCTGGCCAGNGGGGCCCTGCTGGGGGCAGACGAGCTGGCCCGCTACTTCCC
AGACCGGTACGTGGCGCTCTTCGNGGCCACCTGGAACATGCAGGGCCAGAA

Sequence 292

NGGCCCGCCCGGGCAGGTACTAAACTTTAATTAATGAGCTAACGTCATATTTTTTAAGTT
TTTCAATTCCGTTTAAAAATCCTAATTCAAGTAAAAAGATTACTTTATGAACAACAGCAC
CTTGAGATTCGATTAAGTTAATAATCGCTTTCATTGTTCCGCCCAGNTAGCTAAAACATC
ATCAATAATTGCTACTTTTTGGCCTTTTTTCAACATATTAAGTTTGGATTTCTAGAGTTG
ATTTACCATATTCTAAATCATACTCAAAACTAATAACGTCTCCTGGTAATTTTTTAGGTT
TTCTTACCATAATAAAAGGTTTTTTTTAAAAAAGCCTGCAGTAAGGTGGTCCCAAACAAGA
AAACCCTCTTTGCGTCTGGGACCTATAATAACCATCTGCATCTTTAGCTAACTCAAGCCC
ATTTGATTAATTGGNGTAATTTAGCACTTCTCCATTTGCTAAAAGGTGGTGAAATAATCT
TTAAAATACAATCCCTTCAAATTGGGGAAATCTTTTAAACATCCCCCGGCGGTACCTCGG
GCCCGCTTCTAGAACTAGTGGGATCCCCCGGGCCTG

Sequence 293

GCTCCCCGCGGTGGCGGCCGCCCGGGCTGGTACGCGGGGAAATGCAAAAAATCAAATCAA
TTTAATACGAATACATCATGAGATGTTAAAGATTTCCCAATTGAAGGGATTGNNTTTAAA
GATATTTCACCACTTTTAGCANATGGAGAAGTGCTAAATTACACAATTAATCAAGTGGCT
GAGTTAGCTAAAGATGCAGATGTTATTATAGGGCCAGACGCCAAGAGGTTTCTTGTTTGG
GACACCTACTGCAGCTTTTTTAAAAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATT
ACCAGGAGACGTTATTAGTTTTGAGTATGATTTAGAATATGGTAAATCAACTCTAGAAAT
CCAAACTAATATGTTGAAAAAAGGCCAAAAAGTAGCAATTATTGATGATGTTTTAGCTAC
TGGCGGACAATGAAAG

Sequence 294

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATTTCTAATTG
ATCCTGTTCACATTCAGTGAAATGGCATTGCATATTTATATGTTGCTTACAGCTTATTGA
TTTAGGTAACTATTGTGTCTTCCTTCACTATCTGACCTGAAAAGCACTCTCTTCTCTATG
CACTCTTATATTCTGCCTTTCTGCCTGGAGTTTGAAATACATGTCTCTTTAGTTTCTTTT
GCACATGCTACATTGTGCTTTAGACCGGGAGATAATACAGGNGCCTTACCTTACAAATTN
ATNTTTNTGGCAACNCNAATTNTNTNGAAATTTTNNTTTAATTTNAAAACCCCAAACCAA
TTTTCCNNCNCAAAAATTTTTTTTTTGGGAAAAATTAANTTCTTTAAANNNAACCCCCCN
AAAAATTATNGGNGNNAAAAGGGNGCCCCNTTTTGGGCCCTTTTTTTTTTTTCNCGGGNG
GGGNAAAAAATTTNAAAAAAANTTTTTTTTGGGNNCCCCGGGAGAAAAANNTCCCCTNTT
TTTTTTTTCNGGGGTTTTAAAAANGGGGGGNNAAAAATNTTTNNTGGCCCCCCCCNTTTT

Sequence 295

TATAGGGCGAATTGGAGCTCCCCGCCCGNGGTCCCAAATGGAAGTGTGAAAACCANGGCC
CATCCCCCNNTTTTNTAGAGGGGTGGTAAAAAATAAACCCANANATCAAGGGGAGAAAGG
AAAAGGATGAAAGGACAAACTGCCAAAAAAATTTNCCCAAAGTGGCGACTTTTTTAANTN
TGGGAGCCAGAATTCTGAGGGCTTTGCATTGTCTTTGCAATTCNCTCAAGGAGCCTGAAA
TTGAAAAAAAATGCCAACAAGGCCAAATNAACTACTTTTTAGGAGGGGGTTTTGGAGGTC
TTGGGAAGCCTCATTCCCNTTCAACCNNTCNAATTCTGGGAATGGGGGAAATGGAAAGAA
TAGAAGATGTTGGGTGCCCACTAGGCTACTGNTTGAAAAGGGGAAGCTTGAAAANTTNCT
NCACCCAAGGTTGGGTATTCAAAAATATTGTAATGGACTGGGTATTGGCAAAAAGG

Sequence 296

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAGGTGGGTCCCTTTTCAGAGGT
TGGGCCTTCTAGACCTCACCTGTTCTCACTNCCCTGGTTTAAATTCAACCCCAAGCCATG

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GCCAATGGCCAAATAATAGAAATTGGTTCCCTACCCAGCTGGACCAGGGGAGGGAGGTCT
TGTGCAGTTTCTTGACCACTTTGTTGGTTGGACCATNGGCTTAAATACCAATGGGGTATT
CGGCTTGAGACCTAAAGTTTGTAAGAAAATTNAACCAAAATGGTGCCTGCTTGGGTTAAA
AATGGGCTACCACCTCAATCTGGACTTCAATTCTTTTAATTCTAATTTTAAGTTTGGGTT
TTGGTATTCTTTGGCCTAAAGGTGGCGGTAGTCCCAACCTCTTTGGGTANTTACCCCTTC
CTAAATAGGTCAATACCTAGGTAGGTCAATACCTCCCTGGGTGGTAAGGNGGTATTTCTT
CTTAAAAAAGCCTTTTAAAA

Sequence 297

CCGCGGTGGCGGCCGCCCGGGCAGGTACGGCCACACTGGGACTGAGATACGGCCCAGACT
CCTACGGGAGGCAGCAGTAAGGNNTTTTCCACAATGAGCGAAAGCTTGATGGAGCGACAC
AGCGTGCAGGATGAAGTTCTTCGGAATGTAAACTGCTGTTATAAGGGAAAAAAAAAAAAA
AATAANNAAAAAAANGGTACCT

Sequence 298

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACGCGGNGAAATGCA
AAAAAATCAAATCAATTTAATAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGG
GGTTGTATTTAAAGATATTTCACCACTTTTAGCAAATGGAGAAGTGCTAAATTACACAAT
TAATCAAATGGCTGAGTTAGCTAAAGATGCANATGTTATTATAGGTCCAGACGCAAGAGG
TTTCTTGTTTGGGACACCTACTGCAGCTNTTTTAAAAAAACCTTTTATTATGGTAAGAAA
ACCTAAAAAATTACNAGGAGACGTTATTAGTTTNGAGTATGATTTAGAATATGGTAAATC
AACTCTAGAAATCCAAACTAATATTTTGAAAAAAG

Sequence 299

CCGGGCAGGTACGGCCACACTGGGACTGAGATACGGCCCAGACTCCTACGGGAGGCAGCA
GTAAGGAATTTTCCACAATGAGCGAAAGCTTGATGGAGCGACACAGCGTGCAGGATGAAG
TTCTTCGGAATGTAAACTGCTGTTATAAGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
GTACCT

Sequence 300

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTCTAGGACAATCAGGAAG
TAATCTTAAAAAAATAATTGAAGATGTTAAAAAATACGTTAAAAATAAAAAACTTGTTTT
AAACATAGATGCAGTAGAAATTGAAAAACCAGATTTAGATGCAAAATTATTAGCTGAATC
AATTGCAATTAAATTAGAAAACCGTGGATCATACCGTATGGCACAAAAATTTGCAATTCG
TTTAGCACAAAAAGCCGGAGCTAAAGGTATTAAAACTAAAGTTAGTGGTCGTTTAAATGG
TGTTGATATGGCTAGATCAGAAGGATATTCTGAAGGTGAAATGAAATTACACACACTTAG
ACAAGATGTTAGTTATGCAACAGCAACAGCAAGAACAACTTATGGAGCACTTGGAGTTAA
AGTTTGAGTTTCATTAGGCGAAGTATTT

Sequence 301

CCGGCCAGGTACGCGGGGAAATGCAAAAAAATCAAATCANGNTAATAGAATACATCAGAG
ATGTTAAAGATTTCCCAATTGAAGGGATTGNATTTAAAGATATTTCACCACTTTTAGCAA
ATGGAGAAGTGCTAAATNACACAATTAATCAAATGGCTGAGTTAGCTAAAGATGCAGATG
TTATTATAGGTCCAGACGCAAGAGGTTTCTTGTTTGGGACACCTACTGCAGCTTTTTTAA
AAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGANACGTTATTAGTTTNG
AGTATGATTTACAATATGGTAAATCAACTCTAGAAATCCAAACTAATATGTTGAAAAAAG
GCCAAAAAGTAGCAATTATTGATGATGTTTTAGCTACTGGCGGAACAATGAAAGCGATTA
TTAACTTAATCGAATCTCAAGGTGCTGNTGTTCATAAAGNAATCTTTTTACTTGAATTAG
GATTTTTAAACGGNATTNAAAAACTTAAAAAAATATGACCGTTAGCTCATTAATTAAAAG
TTTAGTACCTCGGCCCGCTCTAG

Sequence 302

AGGTACTTTGATATCTNCGCCCTCTCGTGTGTTCCTTGTGGNGNTAACCAGAGGCAAGAT
GCCCGAGGAACTTCATGTGTATGTCTACCAGGATTTCAGATGATCTCTAATAATGGAGGA
CCTGCTATTATTTGTAAAAAGTGCCCAGAAAACATGAAAGGTGTTACAGAAGATGGCTGG
AACTGCATTTCTTGCCCTAGTGACTTAACTGCCGAAGGAAAATGTCACTGTCCCATTGGC
CATATTTTAGTGGAAAGAGACATTNATGGAACATTGNTGNCTCAAGCAACTNGNGAGCTC

TABLE 1
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TGNGATGGAAATGAAAACTCTTTTATGGTAGTAAATGCTTTAGGAGACAGGNGCGTNCGA
TGTGAGCCAACATTTGNTAATACCAGCAGGTCCTGTGCATGTTNCGAACCTAACATTTTA
ACAGGGGGATTATGTTTCAGNAGCACAGGGAATTTTTCCTTGTACGTANAATTTCACCTG
CACGTTATGGAGAAGTTTGGCAT

Sequence 303
CCGGGCAGGTACGCGGGGAAATGCAAAAAAATCAAATCAATTTAATAGAATACATCAGAG
ATGTTAAAGATTTCCCAATTGAAGGGATTGTATTTAAAGATATTTCACCACTTTTAGCAA
ATGGAGAAGTGCTAAATTACACAATTAATCAAATGGCTGAGTTAGCTAAAGATGCAGATG
TTATTATAGGTCCAGACGCAAGAGGTTTCTTGTTTGGGACACCTACTGCAGCTTTTTTAA
AAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGAGACGTTATTAGTTTTG
AGTATGATTTAGAATATGGTAAATCAACTCTAGAAATCCAAACTAATATGTTGAAAAAAG
GCCAAAAAGTAGCAATTATTGATGATGTTTTAGCTACTGGCGGAACAATGAAAGCGATTA
TTAACTTAATCGAATCTCAAGGTGCTGTTGTTCATAAAGTAATCTTTTTACTTGAATTAG
GATTTTTAAACGGAATTGAAAAACTTAAAAAATATGACGTTAGCTCATTAATTAAAGTTT
AGTACCTCGGCCGCTCTA

Sequence 304
GCGGTGGCGGCCGAGGTACCTTNTCCGAATGCACCTTNAAAGCGGGTATTAGCCTATACA
GGCTGTTTTAGTCGAATGCAGACCATCAAGGAAATTCNNGAATATCTATCTCAAAGACTG
CGCATTAAAGAGGAAGATATGCGCCTGNGGCTANTCCANAAGTGGAGAANTACCTTACTC
TTTCTGGGNTGATGAGGAATCATAAATCTGGAATATTTNGAAAATCCAGGATGAACAACA
C

Sequence 305
GCNGNCGCGGGGAAATGCAAAAAAATCAAATCAATTTAATAGAATACATCAGAGATGTTA
AAGATTTCCCAATTGNNGGGATTGTATTTAAAGATATTTCACCACTTTTAGCAAATGGAG
AAGTGCTAAATTACACAATTAATCAAATGGCTGAGTTNAGCTAAAGATGCAGATGTTATT
ATAGGTCCAGACGCAANGAGGTTTCTTGTTTGGGACACCTACTGCAGCTTTTTTAAAAAA
ACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGAGACGTTATTAGTTTTGAGTA
TGATTTAGAATATGGTAAATCAACTCTAGAAATCCAAACTAATATGTTGAAAAAAGGCCA
AAAAGTAGCAATTATTGATGATGTTTTAAGCTACTGGCGGAACAATGAAAGCCGATTATT
AACTTAATCGAATCTCAAGGNGCTGGTGNTCATAAAGTAATCTTTTTTACTTGGAATTAG
GGATTTTTNAACCGGAAATTGGAAAAA

Sequence 306
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGCAATTA
TGAAATTATTGCAGAAAGAAGATTCACTCTCACCTGATGAATAAGTGTTCATAGGTNAAG
GCTACAAAATACTAATTTGTTATTATTTTTAATAATAATTTTTGTTTTGCTGAGAAAGTG
GATTTACCACTTTTTTATTTTTTAATCCAAGGAGGAAAAATTATTTCCAAACCAAATCCT
AAAAATTTTTCACGTTCTAAACCAGTTCAAGAACATTGAGTAAACAGAAATATTCCATTT
GTCAAAGTTTTTCTTATCGGCTCAGATAATGAAAAAATTGGGATAATTGAAACAAGAGAA
GCTATTGAAATGGCAAAAGAACAAAA

Sequence 307
CGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCAGCAAGCGGACGTGAGC
GATAATGGCGGATATGGAGGATCTCTTCGGGAGCGACGCCGACNGCGAAGCTGAGCGTAA
AGATTCTGATTCTGGATCTGACTCAGATTCTGATCAAGAGAATGCTGCCTCTGGCAGTAA
TGCCTCTGGAAGTGAAAGTGATCAGGATGAAAGAGGTGATTCAGGACAACCAAGTAATAA
GGAACTGTTTGGAGATGACAGTGAGGACGAGGGAGCTTCACATCATAGTGGTAGTGATAA
TCACTCTGAAAGATCAGACAATAGATCAGAAGCTTCTGAGCGTTCTGACCATGAGGACAA
TGACCCCTCAGATGTAGATCAGCACAGTGGATCAGAAGCCCCTA

Sequence 308
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAATGTTATTAATGTGACTGACA
AGTAATTAGAAAACTGGAAATTAAATTTTACAAACATTTTTAAAATCGCTNCAATTAAAA
AAATTCAAGATGGTTACATTATGAATATGAATGAAATGTCATTAGCGACTTCGTTAAATG

TABLE 1

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TATATGTAATTCTATATTTTCCCCAAAACCCACATTTTATGAAGAATATTTATTTATTTA
TTTATTTTTGTTTTTTGAGATGGAGTCTCGCTCTGTTGCCAGACTGGAGTGCAATGGTGC
GATCTCCGCTCACTGCAACCTCCACCTCCTGGGTTCAAACGATTCTCCTGCCTCAGCCTC
CCGAGNAGCTGGGACTACAGGCACCGNCACCACGCCCGGCTAATT
Sequence 309
CCGCGGTGGCGGCCGCCCGGGCAGGTACTGACCCTCCTTGATGGTTTACTTTGCAAGCTA
TGGTGACCTCCGCAAGTTGTGTCTGGGCCCATCCAGGGCTCTGACTAATTGTATTCAAAT
CAAGGCAGGAGCGGGCCAGCTGGCGTTGACTTAACCAAGCCATTTTATAAGCCTCCCGAT
CATTTTTAAGCCACTCTAAGTCGTGTAGTAGGATCTGGTCAGAGTTATGTATACTCTGAT
GGGCATGTGCTGTGTCGTCTAAAATGTCCAGAAGTTCTGAAACACTTTTAGATCTTCCAG
AATTTCTTGAGGAAGTCTGCCTAAGTAACTGATGCACATCAAGTTCATCACCGGAGGAAT
CAAAAGAATTTCCATTTTCTATTTCTCTACAGAAAAGAAAAGGATCTTCCTTTAAGATGG
AAATATTATTTCTCTTC
Sequence 310
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACTTGAATTATCTA
TTGAAAGAACTACTACATCGAGTTTTTGTTCTTTTGCCATTTCAATAGCTTCTNTTGGNN
NAATTATCCCAATTTTTTCATTATCTGAGCCGATAAGAAAAACTTTGACAAATGGAATAT
TTCTGTTTACTCAATGTTCTTGAACTGGTTTAGAACGTGAAAAATTTTTAGGATTTGGTT
TGGAAATAATTTTTCCTCCTTGGATTAAAAAATAAAAAAGTGGTAAATCCACTTTCTCAG
CAAAACAAAAATTATTATTAAAAATAATAACAAATTAGTATTTTGTAGCCTTTACCTATG
AACACTTATTCATCAGGTGAGAGTGAATCTTCTTTCTGCAATAATTTCTAATTGCCCCGN
GTACCTGCCCGGGCGGC
Sequence 311
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAAGGTACCTGACTGTGGC
TCANATCTGCGTCGCAGCAGCGAGAGAAGAAATCACTCCATATCCGATGAGAGGAAGGGT
GGCACAGANATGGTGTCTACAATTAGAGACATTTCTGACTCCACCTTAGCCTAAGCAAAC
TTTATATACTGAGTAACATTTGAAGGTTGTCTTTTAATGGTGGGGGGTGNTTTTTCCTTT
TTAAACTACAGT
Sequence 312
CCAAAANGGGNCCTGGGGCGTGGTCACGGCCNAGGTACAAAATTATGACTGTTTTAGCTC
CAGGAACAGATTTAAAAGTAATTGAAGACGTTTTAAAATCTGTTTTTGATGCTAAGAACA
TCGAAAAAAATTGAAAAACTTGAAAGAACAGAGTTAGCATACGAAATTAANNAGCACAAA
CAAGGAATTTTTGTTTTAGCTAACTTAAAATCTGAGGAAAGTTTAATCGAAGAATTTGTC
AGAAGAGTAAATATTCTCAAAAAACAAGTTTTAAGATTTTTAGTTATTAATCTAGATTCT
GAAAGAGGAATGCACAAAACTTTCAGACCTAGAAAAAATGATAAACACAAATTTTTCTCT
TCTAAAAAACCA
Sequence 313
AATNGGGCCTNGCGTGGTCACGCCCAGGTACNAAATTATGACTGTTTTAGCTCCAGGAAC
AGATTAAAAGTATTGAGCNTTTTAATCTNTTTTGATCTAAGACATCGAAAATTGAAAACT
TGAAAGACAGAGTTAGCATACNAATTTAAANGCACAACAGGATTTTTTGTTTTACTAACT
TAAATCTGGGGAAGTTTAATCNAAGATTTGTCAGAAGAGTAAATATTCTCAAAAAACAAG
TTTTAAGATTTTTAGTTATTAATCTAGATTCTGAAAGAGGATTGCNCAAAACTTTCAGAC
CTAGAAAAATTGATAAACACAAATTTTTCTNTTTTAAAAAA
Sequence 314
NGGGCCTNGGNGTGGNNACGANCCAGGTACTTTTACCAAAGAATCTACTAGAACTCTCTG
CTATTCAAAACAAAGAGCTCATACTTGTTGGAGTAGGGAAAAAATTAGAAATTTGACCAA
AAGATAGATTCAATCAACTACAAAGTCAATTCCAAGATGCTGNTAACATCGAAACTCTTG
AAAAAGAACTATTANAATCTGGAGTTGAACTTTAATGGATCATATACCTGNTTTGCTTGA
TCAAGCGGATTGNTCAGCTTAATATTAAAGAAGATGGNATCTATTTAGATCTTACTTTAG
GACGNGGNGGNCATTCGAGNCAAATTTTAAAAAAACTTACTA
Sequence 315

TABLE 1
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CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGTCCATAATTTGTGAATATATTAACTAAT
TTTTCTTTTGAGTATTCATTTACTAACTCATAAGCTGAAAAGCTTTGAGCTTGATTCATT
CTCATATCCAAACGAGCTTGTTTGTTGTATGAAAATCCTCTATTGGCTTGATCTAACTGA
GGTGAAGATACTCCTAAATCAAGTAATACACCATCTACTTTGTTGATTTGAAGTTTTTTT
AGTTCTTGATCAAAATCTTTAAAATCAGATCAAATAAATTCAATATTTGAAGAAATTTTT
AAGAGTTTTTCTTTTGTTTGTTCAATTGCTTGTTTGTCTTTATCAAAGACTA
Sequence 316
CCCTTAGCGTGGTCGCGGCCGAGGTACAGGAACTGCCAAAGGCAACAGAAATTCTTTCTC
CCTATGTCCCAGCCTACCCCCACTTTACCGAGGCCAACAGCCGCCTCAGAAACCAGATTC
AGGAGCTAACATGCCCCAGGTCTCACGAGGATCAGAGACTCCAGAGGCCAGGGAAGGAGA
TCAAGGTAGTCAAGCGGGGGTCGTCTCAGATCTGGTTGTGCTCGAGCTATGCAAATGCCT
CTCATGGAGATGTGAGGACCTATCTATTATGATGACCAGGGCCACATCCGGAGGGGGCAA
CAGACTTTCATCTATCAGCCCTTTTCAACCACTGATCTACTAAACTGGAAACACTCTGAA

Sequence 317
NGGGCCTTGNGAGCGGCCGCCCGGGCAGGTACGCGGGGGTTTAAAAAAATATTTAAAAAA
ATGGAGGAATTATGAACTTAAAAAGCAAATTAAGAAGCTTTTTAGGTGCTACTGCACTTG
TGTTGCCAGTAGCATTTTTTGCTTCTTGCCAAACAAGATTTGNNNAAGTAAATGACCATA
AATTAGTGATTGCTCACACTTTTAATAGTAGAGAAGGAAGGTTTTTAGCATTAGATCAAA
TTGTTAAGCTTTGAAATGAAAGTGAAAAAGTTAAAAACAAAGAAGAAGGATTTTATCCAA
TAACACTAAATCGACAATTTGCGCAAACTTATGCAGAA
Sequence 318
CAGGTACTTTAGCTCCAAAATCAGTTTGATGAGATACAGTTGCCCCTATATGAGAATGCA
CAGGATTCCTCATTGGTGAGTTCAACCATACATTTTGGGTAACTCCTGAAGACATCTGCA
AATTGTGAGTTAGTTGGTGGGGTCCATTAACATTTGCATATGTTATTCTTTCTACTGAAG
TGTGTGAGGCCACAACTGTCCCATTATGCATATCANAAACAGAAATTTGTTGAGGATAAT
TTTGGATATTCAGCAGNGGCTGNGAAACTGGATTTGAATTACCGGGATACATGCATGCTT
CTTGGTT
Sequence 319
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCAATACGTAGAGATAATAACAGTTTTT
TAAAAAACTTAATATTTGTTATTGAATGTATATTTTTGAGTATTGCATCTTTTCTATACT
AATAAGGAGGTGTAATTTGAACGCTTTTAGAAAGAAAAAAGAAGAATTAGTGCAAGAAAT
TAAAGATTTGATTAATTCTTCTTCTTCATTAGTTATAGCTGAATATCGTGGATTAACAGT
TGCTGAAATTGAAACTCTTAGAAATGAAGCTTAAAGAAGCAGGTGTTTTTGTAAAAGTTT
ATAAAAATAGACTATTTAAAATAGCATCTAAAGAAGCAGGTTTCGGAGATTTAGAACAAT
CACTAGTTGGTCCAAATTTTTTTGCTTTTGGTTCTACAGATGCANTAGCTCCAGCTAAAA
TTATTTCAAAATTCGCTAAAAACAAATCCAGTAAGTTGTATTAAAAGGCGGTATTTTTTG
A
Sequence 320
CCCTTAGCGTGGTCGCGGCCGAGGTACCACGGAATTTTAAAAATAGACTNTAAAAAACCN
TCAATTGCANAACTAATTTTGNTTGATTTACTTCAAATTGAAGGAACTCTTTTAGGTTTT
GTTGNAATAGTAAANGAAATTCGATNAGTAATTCAATCAAAGAATAATGAATNGACAAAT
TCTGACATAAAAACAGCCAAAGAATATCATTTAGAACAACTAANAGCGCTTAAAAAAACT
TCAAATTAACAAATATAATTTATAATTTATGGCACTATGAAAAAAAAGNGACTTTATTTA
ATATCAACTTTANCATTTTCAACAATTTTATTAGCTATTNCTNGTGGTAAAAATCAAACT
ACTCCTGTAGGCACACAACCANTTGATANTCCAAGCCTGGAGGATTCATCAAGNGAATCA
ANAGTTCTGGATTTAAATTAATAGAAAAAAAG
Sequence 321
CCCTTAGCGTGGTCGCGGCCGAGGTACAATTTCTAATTGATCCTGTTCACATTCAGTGAA
ATGGCATTGCATATTTATATGTTGCTTACAGCTTATTGATTTAGGTAACTATTGTGTCTT
CCTTCACTATCTGACCTGAAAAGCACTCTCTTCTCTATGCACTCTTATATTCTGCCTTTC

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TGCCTGGAGTTTGAAATACATGTCTCTTTAGTTTCTTTTGCACATGCTACATTGTGCTTT
AGACCGGAGATAATACAGTGACTTTACCTCACAAATCATATTCTGTCAACACAAATCTAT
GAATTTAGTTTATTTAAAATCAGAACAATTTCCTACAAAATTTTTCTGGAAAATAGACTC
CTAACAGACCTACCAGAATCATGCTTAAAGGGCTCCCTTGACACTTATTCTATACTGAAG
GATAAATTTTAAAAAAT
Sequence 322
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTAGTTAA
ATATAAATTTATTTATTAACTTTTTCAATACCTTTTGAAGGTCAAAGTTTGTAAGATGAA
TTAGGTTCTTTTGAAAGTAAATTCCCACAACTGAAAGTGCAGCTAGAATAATAAATACTG
CATATGCAGCTTCTGTTGATGCTGATTTAATTCCTGCAACTAGAACAGTTGCTATAGAAT
AAAATGCATAACCTAATCCTCANATAAGTCCAAATTGATATCCAACTTTTTTAGGATTTG
ATCCTTTGTATTCGGGAGGAAGATTTAAGATAACACCTTGAATTCCTCAAAGCATTACTC
CCATTAAAAATCCTAAAATATAGAATAATCAAGTTCCATTACCTA
Sequence 323
GCGGTGGCGGCCGCCCGGGCAGGTACAAGGTAAAGCAAGAGCTGGCTCTCTACGTTCACC
AATTTTTGTAGGTGGTGGTCGTGCATTTGGGCCTACAAATAATAAAAATTACAAAATTAA
ATTAAACAAAAAAGTTCGCAAATTAGCTTTTGCCTCAGCTTTTAAGTCAACTTGCTCAAA
ATAATCAAGTACCT
Sequence 324
NNCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAAATGCAAAAAAATCAAATCAATTTAA
TAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGGGATTGTATTTAAAGATATTT
CACCACTTTTAGCAAATGGAGAAGTGCTAAATTACACAATTANNCAAATGGCTGAGTTAG
CTAAAGATGCAGATGTTATTATAGGTCCAGACGCAAGAGGTTTCTTGTTTGGGACACCTA
CTGNAGCTTTTTTAAAAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGAG
ACGTTATTAGTTTTGAGTATGATTTAG
Sequence 325
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGTCCATAATTTGTGAATATATTAACTAAT
TTTTCTTTTGAGTATTCATTTACTAACTCATAAGCTGAAAAGCTTTGAGCTTGATTCATT
CTCATATCCAAACGAGCTTGTTTGTTGTATGAAAATCCTCTATTGGCTTGATCTAACTGA
GGTGAAGATACTCCTAAATCAAGTAATACACCATCTACTTTGTTGATTTGAAGTTTTTTT
AGTTCTTGATCAAAATCTTTAAAATCAGATCAAATAAATTCAATATTTGAAGAAATTTTT
AAGAGTTTTTCTTTTGTTTGTTCAATTGCTTGTTTGTCTTTATCAAAGACTA
Sequence 326
CCCTTAGCGTGGTCGCGGCCGAGGTACAGGAACTGCCAAAGGCAACAGAAATTCTTTCTC
CCTATGTCCCAGCCTACCCCCACTTTACCGAGGCCAACAGCCGCCTCAGAAACCAGATTC
AGGAGCTAACATGCCCCAGGTCTCACGAGGATCAGAGACTCCAGAGGCCAGGGAAGGAGA
TCAAGGTAGTCAAGCGGGGGTCGTCTCAGATCTGGTTGTGCTCGAGCTATGCAAATGCCT
CTCATGGAGATGTGAGGACCTATCTATTATGATGACCAGGGCCACATCCGGAGGGGGCAA
CAGACTTTCATCTATCAGCCCTTTTCAACCACTGATCTACTAAACTGGAAACACTCTGAA

Sequence 327
NGGGCCTTGNGAGCGGCCGCCCGGGCAGGTACGCGGGGGTTTAAAAAAATATTTAAAAAA
ATGGAGGAATTATGAACTTAAAAAGCAAATTAAGAAGCTTTTTAGGTGCTACTGCACTTG
TGTTGCCAGTAGCATTTTTTGCTTCTTGCCAAACAAGATTTGNNNAAGTAAATGACCATA
AATTAGTGATTGCTCACACTTTTAATAGTAGAGAAGGAAGGTTTTTAGCATTAGATCAAA
TTGTTAAGCTTTGAAATGAAAGTGAAAAAGTTAAAAACAAAGAAGAAGGATTTTATCCAA
TAACACTAAATCGACAATTTGCGCAAACTTATGCAGAA
Sequence 328
CAGGTACTTTAGCTCCAAAATCAGTTTGATGAGATACAGTTGCCCCTATATGAGAATGCA
CAGGATTCCTCATTGGTGAGTTCAACCATACATTTTGGGTAACTCCTGAAGACATCTGCA
AATTGTGAGTTAGTTGGTGGGGTCCATTAACATTTGCATATGTTATTCTTTCTACTGAAG

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TGTGTGAGGCCACAACTGTCCCATTATGCATATCANAAACAGAAATTTGTTGAGGATAAT
TTTGGATATTCAGCAGNGGCTGNGAAACTGGATTTGAATTACCGGGATACATGCATGCTT
CTTGGTT

Sequence 329

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAACTTTAATTAATGAGC
TAACGTCATATTTTTTAAGTTTTTCAATTCCGTTTAAAAATCCTAATTCAAGTAAAAAGA
TTACTTTATGAACAACAGCACCTTGAGATTCGATTAAGTTAATAATCGCTTTCATTGTTC
CGCCAGTAGCTAAAACATCATCAATAATTGCTACTTTTTGGCCTTTTTTCAACATATTAG
TTTGGATTTCTAGAGTTGATTTACCATATTCTAAATCATACTCAAAACTAATAACGTCTC
CTGGTAATTTTTTAGGTTTTCTTACCATAATAAAAAGGGTTTTTTTAAAAAAGCTTGCAG
TTAGGGTGGTCCCAAACAA

Sequence 330

CCGCGGTGGCGGCCGCCCGGGCAGGTACACCTCTGATTCTCACTAGTTGAATGCAAGAAC
TTGAAAGGTTCAGGTAAGTGTTTTGAAAAATTTTGACTTTCCAAACTTTTGCCACTTGCT
ATCTGAAACTCAGGAATCAAAAAATACCGACAGGCACTGTTACTTTCAAAATTCTTTCTA
TAAGTTGAGAATGGGACAGATTTGCAGAGCAAGGGAAACTTGAACAGTTACTTCTAGTGG
TAGGAAATGAGGTGGCTAGGATATTACCCAGCTGGTGGGTGACTTGGGCAGTGTGTTCCT
GCTTTCAGTGGTTAGCCTTTAGCAAATCTGCTTTAGAGTGAGAGTAGAGGGCAGGCTGTT
GTATTACAGTGCTCTTGTTTTTGTAAAATTTAATTCACTCTACTGNTATTTTGTCTCCTT
GGGTAAAGNGNTATTTAATTTTTCT

Sequence 331

ATTATTGCNGAAAGAAGATTCACTCTCACCTGNTGAATAACGTGTTCATAGGTAAAGGCT
ACAAAATACTAATTTGTTATTATTTTTAATAATAATTTTTGTTTTGCTGANAAAGTGGAT
TTACCACTTTTTTATTTTTTAATCCAAGGAGGAAAAATTATTTCCAACCAAATCCTAAAA
ATTTTTCACGTTCTAAACCAGTTCAAGAACATTGAGTAAACAGAAATATTCCATTTGTCA
AAGTTTTTCTTATCGGCTCAGATAATGAAAAAATNGGGGATA

Sequence 332

CCGCGGTGGCGGCCGCCCGGCCAAGGTACGCGGGGGCAGAAGAGGAAGATTTCTGAAGAG
TGCAGCTGCCTGAACCGAGCCCTGCCGAACAGCTGAGAATTGCACTGCAACCATGAGGTA
AATATTTTCCCTTCGTATTCGGTAGTGCTGTTGAGTCATCTTGTCCAATGCAAATCCTGA
GAAGCTATGTTCCCAAAGAGGGCCAGCTCCATTTAGTGTTTGTTTATAGCCTTACTATGC
CTCTACCTCTGGGGGTTGTAAATCTGTTNTACCCAATGGGNGGGTTTGTTNCCCTTCCTG
AANCAAATTTTTCTGCTTNNACACTTGGGCAAACCNTTTCCTAAATTTCATCCTCCCANA
ACTTTGCNCCNCCNTTGGGGGGAGGTTTGGGGTTTTCAACTCCNGAANAAAAAGAGGGGC
CCCCCACCNNAGGGNNTNNTTTNTTTTAAATTNGGGCCNNGGGGGNTTNNANTTAAAAAA
NNGGGNTTTTNGGGGGACNNTTTTTNTTTTNACCCCCCCCCCCCTTTTTT

Sequence 333

GGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAACGTTGACCTTCCTTG
CCCAAGAATGAATGATTAAAAAGTTGAAAAGCTGTGTTTGTAGATCGTTCAGGCCTTCGT
CTGCAACTATCAGGAAATATGGGTAACTCTCTTCCAAGAAACTTCCCCACTCTTTTGATA
AGCATCTCGAAAATGTTGTTCGAACATCAATGGTGGTATTTTCTGAAGATGAAGAATTAA
AGCAGTTCTCAAAGAAAGAAGTTCAGGGAAGTTGAAATACGCATACTCGGCATCCTTGAA
GAAAACTATGGTGAATTGTCCTCCTTTGCTAATAAGATCCACAAGATAGCCGTTCAACCA
GATAGAAAAAATGGGAGGTNCCTGCCCCAGGCTTTAAANTGANTNNCNCCNCAGCATCCC
CTTGGGGATNNGGTAANNNCCNCCCCCCCNANCAAAAAAAAAAATTTTTCCCCNCCNACC
NAATTNTGAAAAACCNNGNGGGGGTTTAAAAATTTTGNGNTCNNAATTTNAAAAAAAAAA
AN

Sequence 334

CCGGGCAGGTACTAGGAGATATTGATTCTAGTCAATTAGGCATTGTAGACTGTCATGACC
ACTTAATAAAAAATTATGGACCTGAAGCTCACGAGCATCCAGATTTTATTATGATGTCAA
AAGATGCTGCAATTAAAGAAATGAATGAATATGTAGCAAAAGGAGGAAAAACTGTTGTTA

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CAATGGACCCTCCTAACGTTGGGCGTGATGTTTATCAAATGTTAGATATTGCAAAGAAAT
TAGAAGGAAAAGCTAACATTATTATGGCAACTGGTTTTCATAAAGCTGCATTTTATGACA
AAGGTGCTTCTTGACTTGCTTTGGCTCCAACAGATAAAATTGNAAAAATGGTTGTAGCTG
AAATCGAAGAAGGAATGGATGAATATAACTACAGCGGACCAGTTGTAAAAAGATCTAAAT
CCAAAGCCGGAATTATTAAAGC
Sequence 335
CTCCCCGCGGTGGCGGCCGAGGTACCGCGGGGAAATGCAAAAAAATCAANNCAGTNNANT
CNAATACATCACAGATGTTNAAGATTTCCCAATTGAAGGGATTGTATTTAAAGATATTTC
ACCACTTTTAGCAAATGGGAGANGTGCTAAATTACACAATTAATCAAATGGCTGAGTTAG
CTAAAGATGCAGATGTTATTATAGGTCCAGACGCAAGAGGTTTCTTGTTTGGGACACCTA
CTGCAGCTTTTTTAAAAAAACCTTTTATTATGGTAAGAAAACCTAAAAAATTACCAGGAG
ACGTTNTTAGTTTTGAGTATGATTTAGAATATGGTAAATCAACTCTAGAAATCCAAACTA
ATATGTTGAAAAAAGGC
Sequence 336
CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAAATGCAA
AAAAATCAAATCAATTTAATAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGGG
ATTGTATTTAAAGATATTTCACCACTTTTAGCAAATGGAGAAGTGCTAAATTACACAATT
AATCAAATGGCTGAGTTAGCTAAAGATGCAGATGTTATTATAGGTCCAGACGCAAGAGGT
TTCTTGTTTGGGACACCTACTGCAGCTTTTTTAAAAAAACCTTTTATTATGGTAAGAAAA
CCTAAAAAAATTACCAGGAGACCGTTATTTAGGTTTTNGGGTNNAGATTTAAAATTGNGG
AAANCCCCNNTTNTAGAAATCCAAACTAATTNTGTTGNNAAAAGGGCCAAAAAGTNCCAA
TTATTGGTGATGTTTTAGCTACTGGCGGAACAATGAAAGCGATTATTAACTT
Sequence 337
CCGCGGTGGCGGCCGAGGTACCAATAATAGCAACCCTGTGATTTGTCCAAGTGCCCGGGA
GTGGAGGCCATCCTGACAACAGCTCTATGATTTTCTATGCCAATGACACAGGAGCCCAAC
AGTTTGAAAAGTGGTGGGATAAGTCCAGGACAGTCCCCTTTTATCTTGTAGGGCTCCTCC
TCCCACTGCTCAATTTCAAGTCTCCTTCATTTTTTTCAAAATTTAATATCCTAGGCACAG
TGTCTGTCCTTTATTTGATTTTCCTTGTCACCTTTAAGGCTGTTCGCTTGGGATTTCATT
TGGAATTTCATTGGTTTATACCAACAGAATTTTTTGTACCTGCCCG
Sequence 338
CCGGGCAGGTACCTGGAAGACTTCTCCACCTCGGGGGCCTGGCTGCCTCACAGGTATGAA
GACAACCACCATAACTGCTACTCTTACGCACTCACGTTCATTAACTGCGTTCTGATGGCA
GAAGGTAGACAGCAACTGGACAAGGGTGAATTTACGGAGAAGTACCT
Sequence 339
ATAAACTGCGGGATCTCAATGGCTTCTATGATCGTATTGAGGCAGTAGTTCCCACACTCT
GCCCGGTGCCAGCATGAAAGAGAACAGGGAGAGTCAGCCTTTCACAGTCCTTGTCAAATC
CCAATTACTCTGGTTGCAGATCACTTGAAGCCTGCCTTGTTTCTCTCACAAAGCTCTGCC
CGAGAGTCCAGCCCCGCGTACCTGCCCG
Sequence 340
GCGAATTGGAGCTCCCCGCGGNGGCGGCCGAGGTACAAGATAGTCATNTCAGTAAAAGGT
CTATTATCTAACTTGCCAAACTTGTTTANNGAGAGCCCTAAGGAACTAAAACTGCCATAA
TGCCNTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCCTCCCTTCCAG
TTCCTCAGCAGGCCTGGCTGAAGGCCCAGGAGGGAAGGAAATATAAGAACCAACAATAAA
AATAGCAATAGCAATAAGAAGAATGCCATCCCATGGAGCACACCATAATTCTGGAACCAC
CTNTCCCGGATCAGGCTTCCATTGCTCACGATGCTCACGCTGGGCAG
Sequence 341
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTCTAGGACAA
TCAGGAAGTAATCTTAAAAAAATAATTGAAGATGTTAAAAAATACGTTAAAAATAAAAAA
CTTGTTTTAAACATAGATGCAGTAGAAATTGAAAAACCAGATTTAGATGCAAAATTATTA
GCTGAATCAATTGCAATTAAATTAGAAAACCGTGGATCATACCGTATGGCACAAAAATTT
GCAATTCGTTTAGCACAAAAAGCCGGAGCTAAAGGTATTAAAACTAAAGTTAGCGGTCGT

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TTAAATGGTGTTGATATGGCTAGATCAGAAGGATATTCTGAAGGTGAAATGAAATTACAC
ACACTTAGACAAGATGTTAGTTATGCAACAGCAACAGCAAGAACAACTTATGGAGCACTT
GGAGTTAAAGTTTGAGTTTCATTAGGCGAAAGTATTTGCAAAGCAAAATCAAGCATATAA
TGAAGAAGAACCAACNCACAAAAAAGGGCCAAAAAGAGCAGCAAGAGTTAAAAAAGAA
Sequence 342
CCGGGCAGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCCGTGCTCCAGGTGTTCACA
GCTGCTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCC
TGTGCCCAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTG
GAGGGGCAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTG
ACTGCATTACACCACTCAGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACC
TTGCAGTGCACAGCCTGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGA
Sequence 343
CCGGGCAGGTACCGCTGTGTCCGGGTGGGTGGTCATGAATGCCGTGCTCCAGGTGTTCAC
AGCTGCTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGC
CTGTGCCCAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCT
GGAGGGGCAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTNTTGCCAGATGACAAGGN
GACTGCATTACACCACTCAGTATATGTGAGGGAGGGGATGTGCCTCTGGCCAC
Sequence 344
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAACTTTAATTAATGA
GCTAACGTCATATTTTTTAAGTTTTTCAATTCCGTTTAAAAATCCTAATTCAAGTAAAAA
GATTACTTTATGAACAACAGCACCTTGAGATTCGATTAAGTTAATAATCGCTTTCATTGT
TCCGCCAGTAGCTAAAACATCATCAATAATTGCTACTTTTTGGCCTTTTTTCAACATAAT
TAAGTTTGGATTTCTAGAGNTTGATTTACCATATTTNTAAATCATTCCTCAAAACTAATA
ACCGCCNTCCTGGGAAATTTTTTTAGGGTTTTNTTACCCCTAAATAAAAAAGGGNTTNTT
TT
Sequence 345
CCGCGGTGGCGGCCGCCCGGGCACGGTACCACTTGAATTATCTATTGAAAGAACTACTAC
ATCGAGTTTTTGTTCTTTTGCCATTTCAATAGCTTCTCTTGTTTCAATTATCCCAATTTT
TTCATTATCTGAGCCGATAAGAAAAACTTTGACAAATGGAATATTTCTGTTTACTCAATG
TTCTTGAACTGGTTTAGAACGTGAAAAATTTTTAGGATTTGGTTTGGAAATAATTTTTCC
TCCTTGGATTAAAAAATAAAAAAGTGGTAAATCCACTTTCTCAGCAAAACAAAAATTATT
ATTAAAAATAATAACAAATTAGTATTTTGTAGCCTTTACCTATGAACACTTATTCATCAG
GTGAGAGTGAATCTTCTTTCTGCAATAATTTCTAATTGCCCCGCGTCCTTGGCCGCTCTA
GAACTAGGTGGG
Sequence 346
CACTACTATAGGGNGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAGGA
GATATTGATCCTAGTCAATTAGGCATTGTAGACTGTCATGACCACTTAATAAAAAATTAT
GGACCTGAAGCTCACGAGCATCCAGATTTTATTATGATGTCAAAAGATGCTGCAATTAAA
GAAATGAATGAATATGTAGCAAAAGGAGGAAAAACTGTTGTTACAATGGACCCTCCTAAC
GTTGGGCGTGATGTTTATCAAATGTTAGATATTGCAAAGAAATTAGAAGGAAAAGCTAAC
ATTATTATGGCAACTGGTTTTCATAAAGCTGCATTTTATGACAAAGGTGCTTCTTGACTT
GCTTTGGCTCCAACAGATAAAATTGTAAAAATGGTTGTAGCTGAAATCGAAGAAGGAATG

Sequence 347
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCGTAGAAGAAGAAGG
AATACCTAAAGAAACAGACATAGAAATCATCCCAGAAATCCCGGAAACTCTAGAGCCACT
GTCCCTTCCAGATGTGCTGAGGATCTCGGCAGTTCTGGAGGACACCACAGGCCAGCTCTC
TATTCTGAACTACATCATGCCCGTTCAGTACCT
Sequence 348
TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAACTTTAATTAATG
AGCTAACGTCATATTTTTTAAGTTTTTCAATTCCGTTTAAAAATCCTAATTCAAGTAAAA

TABLE 1
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AGATTACTTTATGAACAACAGCACCTTGAGATTCGATTAAGTTAATAATCGCTTTCATTG
TTCCGCCAGTAGCTAAAACATCATCAATAATTGCTACTTTTTGGCCTTTTTTCAACATAT
TAGTTTGGATTTCTAGAGTTGATTTACCATATTCTAAATCATACTCAAAACTAATAACGT
CTCCTGGTAATTTTTTAGGTTTTCTTACCATAATAAAAGGTTTTTTTAAAAAAGCTGCAG
TAGGTGTCCCAAACAAGAAACCTCTTGCGTCTGGACCTATAATAACATCTGCATCTTTAG
CTAACTCAGCCCATTTGATTAATTGTGTAATTTAGCACTTCTCCATTTGCTAAAAGGTGG

Sequence 349
TCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAAAACAGGT
GCTCCTGTTAAAATAGAAGATCTTGCAGCTACTTCTAGAGATTTAAATTCTAAACGATCA
ATAGCAGCGTATCCTGTTCCGGCTTTAATAATTCCGGCTTTGGATTTAGATCTTTTTACA
ACTGGTCCGCTGTAGTTATATTCATCCATTCCTTCTTCGATTTCAGCTACAACCATTTTT
ACAATTTTATCTGTTGGAGCCAAAGCAAGTCAAGAAGCACCTTTGTCATAAAATGCAGCT
TTATGAAAACCAGTTGCCATAATAATGTTAGCTTTTCCTTCTAATTTCTTTGCAATATCT
AACATTTGATAAACATCACGCCCAACGTTAGGGAGGGTCCATTGTAACAACAGTTTTTCC
TCCTTTTGCTACATATTCATTCATTTCTTTAATTGCAGCATCTTTTGACATCATAATAAA
ATCTGG
Sequence 350
TAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTCTTCACTATCA
CTGTCCTGTAAATTTAGTAGCCTTGGCTGGAAACACTGTAGTCGACATGATCTGATATTG
CTTAATATTTCAGAAAGAGACAGTCTATTTTCACAATGTTTACTGGAAGCATTGGTCCGA
GAGAAATTAGAAGAAAAGTCTATAGTTTGGGAAGAGCTTGAAAAACTATTCAGCATTTCA
GGGTCTATCTGTTTCAGGACTGGGTCATGTTCTGTGGATATTCGGTCCATTATGACCCTT
CCACCTCTGCCAATTCGCCTCCTTGCAAATCCTATACATCTTCTTGGGACTGTAAGTGTT
GTAAGGC
Sequence 351
CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCTTGGTGACTGTA
ATTAACAACAATGTATTTTGAAAGTCACTGAGTAAATTTTAAGTGGTTTTTCCAAAAAAG
CACATAAGGTAATGCACCGTTAATTAGCTATATTGAGCCATTCCACAATGTATAGATATT
TCAAAACATGTTACACATGATAAATCCAGTTTTTCTACGTCATTTTTTAAAATTATATTT
AATTTTTTTATTTTGAAAGTTTTTTCACAGATCTTTTTTTTAGTATTATTACCTTCTGAT
ATATGTGTCATTATTGAAGAACCATACCTTTTAAAGGTATTATTTTGTAATTAAGGTATG
TCAACAGTAAAAAATAACCAGTGGCCCAGGCCATNGGGGCTCATGCCTGTAAATNCCAGC
ACTTTTTTCGGAGGCCCG
Sequence 352
CCGCGGTGGCGGCCGAGGTACCTGTGAAGACAGCTACACCTGGTTTCCTCCCTCATGCCT
TGATCCCCAGAACTGCTACCTTCACACGGCTGGAGCACTCCCAAGCTGTGAATGTCATCT
TCAAACAACCTCAGCCAGAGTGTCAATTTCTGTGAGAGAACAAAGATTTGGGGCACTTTC
AAAATTAATGAAAGGTTTACAAATGACCTTTTGAATTCATCTTCTGCTATATACTCCAAA
TATGCAAATGGAATTGAAATTCAACTTAAAAAAGCATATGAAAGAATTCAAGGTTTTGAG
GTCGGTTCAGGTCACCCAATTTCGAAATGGAAGNCATCGTTGCTGGGTATTGAAAGGTTT
GT
Sequence 353
CCTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTGTTTTATATTCT
TCAAATCCTATTGATGAAAAACTTAAAGATGAATTAGAAAAATCTTATGTAATTAGACAA
AAACCAAAAAAAACAAAAACTTATTTTAGAAAGACTTGGATAATGATTGATTATAAAAAAA
TGATTGACCATACTTTATTAAAACCAGAAGCTACATCTAAAGATATTTTAAAACTTATTT
CACAAGCTAAAGAACATGGATTTAGAGGAGTTTGCATTAACTCTTCTTGAGTTAAATTAG
CAAAAGAAAAACTTGCAAATACAGATTTAGATATCGTTTCAGTAGTTGGCTTTCCATTAG
GTGCATCAAACACACAAACCAAGGTTTTTGAAGCAAAATTAGCAGTTGAACATGGAGCTA
CTGAAATAGATATGGTTATAAATGTGGGTAAATTCAAA

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Sequence 354

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTGCATGAAACCACACA
TACGGGCAAAAGCAGGAAGAGACTTTGCAGACATAAAAACCAGGTAAGTTTTGAGAGTCA
GGTGATTGCAAGATTTTTTTTTCTTTCATTGACACTTAGCTAATTTTGAGCCATATTTTT
AAATGTGTGTCTTTTCAGTTACTTGAAACCTCTTCTCCCACCTCCCATCCTTTCCAAACC
TCCTCCAAGCCAATTTTCCAGTTGGTTTAAAAGAAATCATTAGGGTGACCCCCACTCCCA
CTTTCTGGAACCTCAGGCAGAGCTCCTGGGGTTCCTCC

Sequence 355

NNTTTTTTTTTTTTTTTTTTTTTTTGCGTGGAATCCTTCACCTCTTGCTAAAGGAACAGTAA
TGTCATATCCTGTTAATCTTGCAGGAGGCGCTAATAAGAATTCAAATGCTTTCTCATTTC
TCTTGTAATAATTTCAGTGAACTGAAAATGATTTAACAGCTTCGTGAACAACTAAAAGTC
TTCCAGTTTTTTTTAACAGAGTTAATAATTGTATCTGTATCTAAAGGAGAAATTGTTCTTA
AATCAATTAATTCTACAGAGTATTCTCCATTTAATTGTTTTAAAGCAGCTAGTGCTTCGT
GAACTTGTGCTCCATATGTTACTAATGTTAAATCAGAACCTTCTACTAATACATTTGCTT
TACCAATTTCAACTTCATAAATTCCTGCTGGAGCTTCTTGTTTGAATGAACGATAAATTT
TCTTAGGTTCTAAGAAAATAACTGGATCTGGGTCGTTAATAGCTGCGATTAATAATCCTT
TTGTATCATAAGGAGTTGAAGGCATAACAACTT

Sequence 356

AGGGCGAATTGGAGCTCCCCGCGGTGGGCGGCCGAGGTCTAAACTTTAATTAATGAGCTA
ACGTCATATTTTTTAAGTTTTTCAATTCCGTTTAAAAATCCTAATTCAAGTAAAAAGATT
ACTTTATGAACAACAGCACCTTGAGATTCGATTAAGTTAATAATCGCTTTCATTGTTCCG
CAGAGCTAAAACATCATCAATAATTGCTACTTTTTGGCCTTTTTTCAACATATTAGTTTG
GATTTCTAGAGTTGATTTACCATATTCTAAATCATACTCAAAACTAATAACGTCTCCTGG
TAATTTTTTAGGTTTTCTTACCATAATAAAAGGTTTTTTTAAAAAAGCTGCAGTAGGTGT
CCCAAACAAGAAACCTCTTGCGTCTGGACCTATAATAACATCTGCATCTTTAGCTAACTC
AGCCATTTGATTAATTGTGTAATTTAGCACTTCTCCATTTGCTAAAAGTGGTGAAATATC
TTTAAATACAATCCCTTCAATTGGGAAATCTTTAACATCTCTGATGTATTCTATTAAATT
GATTTGATTTTTTTTGCATTTCCCCGCGTACCTGCCCGGGCGGC

Sequence 357

GAATGGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGATAGTCATCTCAGTAAAAGGTCT
ATTATCTAACTTGCCAAACTTGTTTACTGAGAGCCCTAAGGAACTAAAACTGCCATAATG
CCGTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCCTCCCTTCCAGTT
CCTCAGCAGGCCTGGCTGAAGGCCCAGGAGGGAAG

Sequence 358

AGGTACANGATAGTCATCTCAGTAAAAGGTCTATTATCTAACTTGCCAAACTTGTTTACT
GAGAGCCCTAAGGAACTAAAACTGCCATAATGCCGTGCACAGCTTGAAAAGCAATTAAGA
GTAAGCAAGATTAGTTTTTCCTCCCTTCCAGTTCCTCAGCAGGCCTGGCTGAAGGCCCAG
GAGGGGAAGGGAAATATAACGGAACCCAACAATTAANAAATAGGCAAATAGCCAATTAAA
GTAAGGAATGGNCATCCCATGGGAGGCANCAACCATTAATTTCTTGGGAACCCACTNTNT
CCCNGGGATTCAGGGCTTCCATTTGCTTCACNGATGGCTTCACGTCTGGNGCAGCCCGCC
AACTCTTACTTTGCCAGGAAACCCTCACCTCAACTTTGCCCAGGGTATTTCTNCCCCGGG
TCTTGGAAANGAAAATGGGCTTCNTCCACCTGAAAAAGGGTTNGAATCCTTTCTTCCCAT
TACCCAGGCTTTCCNTTTAAAGCCAAAAAGGCAAATTCCCTCCTTTTTTGGCTTTTCCT

Sequence 359

CTAATTGATCCTGNTCACATTCAGTGAAATGGCATTGCATATTTATATGTTGCTNACAGC
TTATTGATTTAGGTAACTATTGTGTCTTCCTTCACTATCTGACCTGAAAAGCACTCTCTT
CTCTATGCACTCTTATATTCTGCCTTTCTGCCTGGAGTTTGAAATACATGTCTCTTTAGT
TTCTTTTGCACATGCTACATTGGGCTTTAGACCGGAGATAATACAGTGACTTTACCTCAC
AAATCATATTCTGTCAACACAAATCTATGAATTTAGTTTATTTAAAATCAGAACAATTTC
CTACAAAATTTTTCTGGAAAATAGACTCCTAACAGACCTACCAGAATCATGCTTAAAGTG
CTCCCTTGACACTTATTCTATACTGAAGGATAAATTTTAAA

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Sequence 360
CCGCGGTGGCGGCCGAGGTACAAGATAGTCATCTCAGTAAAAGGTCTATTATCTAACTTG
CCAAACTTGTTTACTGAGAGCCCTAAGGAACTAAAACTGCCATAATGTCGTGCACAGCTT
GAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCCTCCCTTCCAGTTCCTCAGCAGGCCT
GGCTGAAGGCCCAGGAGGGAAGGAAATATAAGAACCAACAATAAAAATAGCAATAGCAAT
AAGAAGAATGCCATCCCATGGAGCACACCATAATTCTGGAACC
Sequence 361
TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTGTTTTATATT
CTTCAAATCCTATTGATGAAAAACTTAAAGATGAATTAGAAAAATCTTATGTAATTAGAC
AAAAACCAAAAAAACAAAAACTTATTTTAGAAAGACTTGGATAATGATTGATTATAAAAA
AATGATTGACCATACTTTATTAAAACCAGAAGCTACATCTAAAGATATTTTAAAACTTAT
TTCACAAGCTAAAGAACATGGATTTAGAGGAGTTTGCATTAACTCTTCTTGAGTTAAATT
AGCAAAAGAAAAACTTGCAAATACAGATTTAGATATCGTTTCAGTAGTTGGCTTTCCATT
AGGTGCATCAAACACACAAACCAAGGTTTTTGAAGCAAAATTAGCAGTTGAACNTGGAGC
TACTGAAATAGATNATGGGTATAAATGGTGGGTAAATTTCAAA
Sequence 362
CCGCGGTGGCGGCCGCCCGGGCATGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCT
TGGTAGGCCATTACCATACCAACTAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCT
GTGAAGCTCCTTTCTATTACTCATCATGCGATAAATAACTATATCCGGTATTAGCTATTG
TTTCCAATAGTTATCCCAGTCTTAAAGGTAGGTTAGGTACCT
Sequence 363
CACTACTATAGGGNTNATTGGAGCTCNCCGCGGTGGCGGCCGTGCTGTTGCTTGGCCGCG
CGCCAGGCTGGCCAGAGGTGCTGTTCCACTGGGGCGTGGCCGTGATGGTGTGCGCCGATC
GACGTTCTGTTTTAATGAAAGGATGGACATGCAACTGACACTCGCACAACTCTTGGCAAT
CATGCCCAATGCCCGCTCCAAAGCGGGTATTTTTTTGCCTGCGCTAAACGTGGCCATGGC
GGAATTCGGTATCAACACGTCGGCGCGCCAGGCCGCGTGGCTGGCCACCATCGGTGTCGA
GTCCGGTAGCCTGCAGCGGGTAGAGGAAAACTTGAACTACCGCGCGGATCGCCTNCTCGT
TATTTTCGGAAAATACTTCACGCCGGCGTTGGCCGCAGCTTATTGCCGGCAAGCCGGAAA
TGATCGNCAACCGTGTTTACGCCAACCCGCATGGGGGAAACG
Sequence 364
AGGTACTAAACTTTAATTAATGAGCTAACGTCATATTTTTTAAGTTTTTCAATTCCGTTT
AAAAATCCTAATTCAAGTAAAAAGATTACTTTATGAACAACAGCACCTTGAGATTCGATT
AAGTTAATAATCGTTCATTGTTCCGCCAGTAGCTAAAACATCATCAATAATTGCTACTTT
TTGGCCTTTTTTTCAACATATTAGTTTGGATTTCTAGAGTTGATTTACCATATTCTAAATC
ATACTCAAAACTAATAACGTCTCCTGGTAATTTTTTTAGGTTTTCTTACCATAATAAAAGG
TTTTTTTAAAAAAGCTGCAGTAGGTGTCCCAAACAAGAAACCTCTTGCGTCTGGACCTAT
AATAACATCTGCATCTTTAGCTAACTCAGCCATTTGGATTAATTGTGTAAATTTAAGCAC
TTCTCCATTTGCTAAAAGTGGTGAAATATCTTTAAATACAATCCCCTTCAATTGGGGAAA
TCTTTAAACATCTCNGGATGGTATTCTATTAAAATTGAATTGAATTTTTTTTGGC
Sequence 365
CCGCGGTGGCGGCCCGAGGTACCAAAATAAAGGGTATTTGCTACCTTTAATACTTGCCAG
TTCAGGTTGGAGGCACAGGCAGCAGCAAGAATGGAAAGAAATGTTCTTACAACATTTTCA
CAGGAAATGTCCCAGTTAATTTTGAATGAAATGCAAAAGCTGAATATTCCAGTTTATTCA
ATGATTTTGTTGAATCTGAATTTTTTTTTGATTGATGGGGATTCATTACTTATCACATGTA
TCTGTGAGATATCATTTAAGCCTGGGCAGAACCTCCATTTCTTCTATCTGGTTGAACGCT
ATCTTGTGGATCTTATTAGCAAAGGAGGACAATTCACCATAGTTTTCTTCAAGGATGCCG
AGTATGCNTATTCAACTTCCCTGGACTTCTTTCTTTGAGAACTGCTTTAATTCTTCATCT
NCAGAAAGAATACCCCATTTGATGTTCGAACAACATTTTCGAGATGCTTATCAAAAAGAG
TGGGGAAAGTTTCTTTGGAAGANGAGTTACCCCATATTTNCTGATTGTTGGCAGACGAAA
NGCCTTGAACGATCTACAAAACCNCAGCTTTTTAAACTTTTTAAATCNTTCAATTCCTTG
GGGCAAAGGGAANGNTNAACNTTTGGTACCTTGCCCGGG

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Sequence 366
CCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGAAATGCAAAAAAATCAAATCAATTT
AATAGAATACATCAGAGATGTTAAAGATTTCCCAATTGAAGGGATTGTATTTAAAGATAT
TTCACCACTTTTAGCAAATGGAGAAGTGCTAAATTCACAATAATCAAATGGCTGAGTTAG
CTAAAGATGCAGATGTTATTATAGGTCCAGACCCAAGAGGTTTCTTGTTTGGGACACCTA
CTGCAGCTTTTTTAAAAAAACCTTTTATTATGGTAAGAAAACCTAA
Sequence 367
AGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAAC
TAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCA
TCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTT
AAAGGTAGGTTAGGTACCTGCCCG
Sequence 368
ACCGCGGTGGCGGCCGAGGTACGGCCACACTGGGACTGAGATACGGCCCAGACTCCTACG
GGAGGCAGCAGTAAGGAATTTTCCACAATGAGCGAAAGCTTGATGGAGCGACACAGNGTG
CAGGATGAAGTTNTTCGGAATGTAAACTGCTGTTATAAGGGAAAAAAANAAAAAAAAAAA
AAAAAAAAGGTNCCTGCCCG
Sequence 369
GGCGGCCGAGGNACAATATAGNCATCGCNTTAAACNGCCNANTNTTAANCNCGCCAAACT
TGGTTACTGAGAGCCCTAAGGAACTAAAACCGCCATAATGCCGGGCACAGCTTGAAAAGC
AATTAGAGGAAGCAAGANNAGNNNTTCCTCCCTTCCAGNNCCTCAGCAGGCCTGGCTGAA
GGCCCAGGAGGGAAGGAAATATAAGAACCAACAATAAAAATAGCAATAGCAATAAGAAGA
ATGCCATCCCANGGAGCACACCAAAATTCNGGAACCACCNCTCCCGGANCAGGCNTCCAT
TGNTCACGAAGCTCACGCNGGGCAGNCCGCAACTTTACTTTGNAGNAACCTCCCCACTTG
GCCAAGGGAATTCNCCCCCGGGCCTGGAAGAAAAGGGNTCTCCCACCCGGAAAGGGGCGN
ACCTTTTCCCAAAACCAGCCTTTCCTTAAAGCNAAAAGCAAACCCNCTCTTTTGGGTTTC
NCAAAGGGGGCNGNACAAAAGGGAAGGGTTTTGGGGCNGGGGGGGGGAAACAAAANCCCC
NCATTNGGAAGNTTGCCCCCGGCCGAGGGGAAGGGGAAAAGGTTGGNCCCCGGTTGGGGG
GGG
Sequence 370
ATTGTTGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACANGGAACTGCCAAAGGCAACA
GAAATTCTTTCTCCCTATGTCCCAGCCTACCCCCACTTTACCGAGGCCAACAGCCGCCTC
AGAAACCAGATTCAGGAGCTAACATGCCCCAGGTCTCACGAGGATCAGAGACTCCAGAGG
CCAGGGAAGGAGANNAAGGTAGNCAAGCGGGGGTGGTCTCAAATCTGGTTGNGCTCGAGC
TATGCAAATGCCTCTCATGGAGATGCGAGGACCTATCTATTATGATGACCAGGGCCACAT
CCGGAGGGGGCAACAGACTTTCATNTATCAAGCCCTT
Sequence 371
AGGTACTATTGACTAAAGTCAGTTGGGGGAGAGAGAGGCGGAAGTATATTACTTTTATGC
TTGGTTATACTAGAGAACAAATAGAAACTGACTAAAGAAACATTAGATCAGTGGTTCTCA
GAGTATTGATATCTGGGAGTCCCAGCAACAGTCTGAGGAGGTTCATGAGTTCAGAATATT
TTGATAATAACACTAAGATGGTATTTACTCTTCTAACTGGGTAGATATTTGCACTGGT
Sequence 372
CCGGGCAGGTACCGGGTCTAGGGAAGATGCAGAACACTTCAGCCTGGCAGAAGGCTCTAA
AGATCGTCAACCTTTCCTCTGTTCATTTTGAAATTTTTAAAAATATGCTAACTTAGCTGA
AAATCTCATGGAAACCAGGCTCCTCATCAGACTTGAAAGTCAAACCGGTTTCTCAACAAC
TTCTCTTTATGGTTCTGTATGGCTCCACAGAAAACCAGAAAAACATTTGGGGCAAGAAGC
TATGACTCTGTGAGGCCACATGGGAGCAGGCAGTCAATTATTACACTAAGGAACACCCAG
TTAGCATGAAGTATCCCATCACCTCGGTATTAAGCCCTGCATGCATTAGCTATTACCT
Sequence 373
ACTTTTTTTTTTTTTTTGCTCAATAGAAGTATGGAATAATTCCAGGTAATTTAAAGCATA
TTTTTCAATTGGTGTAAGCTGCTCCATGAAGTCAGCTAGCTCCTCTAATTGGGATGGTTC
TTCATCACACGGCATGTTCTCAGAGTCTGATGACAGAGCATCAGTGTGTGGTCCCAGCAC

TABLE 1

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CCCCTCCTGTGCGGACTTCTGGGCATCCTCCTCCAGATACTCAATACTCTTGAGGGCCTG
AGGAAAGTCTCTATGAAAGGTCTTGCAATTTTGGGTGCAATGGTTTCCGTGACAGAAGGT
TCCTGAGAAAGCACCACAAACTCCTCAGCTTTGACCGGGAAGCCAGCATCACGGACGCGT
GGGTCGAAGCTTGACCT

Sequence 374

CCGGGCAGGTACCGCTACTGAAATTATTAAACATACACTACAGATCAATTATATAANTAT
GTTAATATCTTTAGAAATCAAGAGTTGCAGCATAAGAGAAAGGGATACAAAAACAAAACA
AGCAAAGAAGTTACATAAAAACGTAACGTTGTATTGGAAAAACCAGTATGAACTTATGAT
TTAGTTTTCTTTCTAAAAACGGACGCGTGGGTCGAAGCTTGACCT

Sequence 375

NGCGNTGCGCTCACCTGCCCNCTTTCCANTCGAGGNAAACCTGGTCGTGCNAGGGTGCNA
NTAATGAATTCGNCCAAACNCCNCCGGNNGAGNAGGCGGTTTTGCGTNATTGGGGCCGCT
ATTCCNCTTTTCTCGCTCACCTGACTTCGCTGCCGCTCGGTCGNTCGGCTTGCCGGCCGA
AGCCGGGTAATTCAAGCCTCCACTCAAAAAGGGCCGGGTAAATTACCGGGTTTNTTCCAC
CAANGAAATTTCAAGGGGGGGATTAAACCNCNAAGGGAAAAANGAAACATTGTNNGANNC
AAANAAAGGGCCCNNNCAAAAANNGGGCCCANGNNGAACNCNCCGTAAAAAAAAAG

Sequence 376

CCGGGCAGGTACACTCCAGCTCCTCTATCCTTTGTTCCAGGTGAGCCTTNTCATTAAATG
CTGTCTCTTGAGCAATCTTTAGCCTCTCCCTTAGACTATCTCGTTCTGTGGTCATTCTTC
GTAAATCAGTAAAGGCTACATCTCTTTCAGTCTCCACTCGCCGGAGAATAGCATGTGCCG
TTGTTGATTTAGGACTCTTACAGCTTTTCATCATTTCTCGTCGAAGTCGGGTAATTTCTT
CCTGTGCCTGTTCATAAAGAAGGAAGATCTTGTCTCTCTCAGATTTAAGAACCTTGACAT
TACCCTGAATTTCTGCCAAATCGGACGCGTGGGTCGAAGCTTGTACACCTnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnAAAATNGCNCNC
TGGGGCNAAATCNNGGGAAAATANGCTGTTTTCNTGGGAAAAAAATTGTTTTNCCCCGCA
ANAAAAATCCCCCACAAAAATTNTANNGNNNGGGNGAAAAAAAAAAGNAAAAAANNGNGG
GGGGGGGCCCCCAANNGGGGGGNNGCCCNCNCCCCTNATANTTNATGGNGGGGGGGGGCC
CTCNANNNGGCCCCTTTTTNNNNAANNGGGAAAAACCTTNGGCGGGNCCCNTTTNTATNA
ANAAAAAACCCNCCCCCCCCCCCNNGGGGGGGGNGGGGNGGTTTNGNTTATTGGGGGGCC
CNTTTTTCCNNTTTTCCNAANAAAAANAAAANANNCGGNGNCCNGGAGGGGGAAANGNGG
GGGGGGGG

Sequence 377

CGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGTGATG
CTGGCTTCCCGGTCAAAGCTGAGGAGTTTGTGGTGCTTTCTCAGGAACCTTCTGTCACGG
AAACCATTGCACCCAAAATTGCAAGACCTTTCATAGAGACTTTCCTCAGGCCCTCAAGAG
TATTGAGTATCTGGAGGAGGATGCCCAGAAGTCCGCACAGGAGGGGGTGCTGGGACCACA
CACTGATGCTCTGTCATCAGACTCTGAGAACATGCCGTGTGATGAAGAACCATCCCAATT
AGAGGAGCTAGCTGACTTCATGGAGCAGCTTACACCAATTGAAAAATATGCTTTAAATTA
CCTGGAAATATTNCATACTTTNTATTTGNGGCNAAAAAAAA

Sequence 378

GCCGGCCCGAGGACTCCAGCCTGGGCAACAGAGCAAGACTCCATCTCAAAAAAAAAAAAA
AAAAAAAAAGTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnGGGGGCCCCGGGTACCCAAGCTTTTG
TTCCCTTTAGTGGAGGGGGTTAATTTGCCGCCGCNTTGGGCGTAAATCAATGGGTCATTA
GCTGTTTCCTGNGNTGGAAAAATTGTTATCCCGCTCACCAAATTCCACACCAAACCATTA
CCGGAAGCCCCGGGNGNAGCCATTAAAAAAGGTGTNANANAGCCTTGGGGGGGGTGCCCT
ANATNGGAAGGTGGAGCCTAAACCTCACCATTNAATTTGGCCGTTGGCGCCTCACCTTGC
CCCGCTTTTCCAAGGTCCGGGGGGAAAAACCTGGTCCGNGGCCAAGCTTGCAATTAAATT
GGAAATTCGGGCCCA

Sequence 379

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GAATTGNAGCTCCCCGCGGTGGCGGCCNNCCGGNCAGGTGGAAAGGTGGGTGGGGAGAGG
GAGGCTTATTTGTTGCTGCAGTGTAACTAAGTGAAACCTAATTCATATGACTCAAACTAA
GGTATATTTGGTTAGATCTAGGTGAGTTCTACTTTAGAGGAAATCCTGGTAACTGTTGTT
TGTTTGTAAGTTATAGCTGTAATTAATTTTCCCTGTATTCAAAGCCCCCAAACCCTGCAT
TCAGATACTATGCATTTAGACTTCCTTAGGCAAAGTCAAGGCAACAAGCTGATGATTCTA
AGCTATTATTCAAGGAGTATCTACCATCATAAAGGTGGTTTAAGTCATATAGGATAATAT
CAATCAATAATACAGGGAGATGGCAAAAATTTTTTGGGNAAANCCCAATATTANCTTGGG
TTTNATGACCCCCNAATCTCACACTTTGGGGNCNTATGGGAAAGGCTTTTTTTAAGACCC
GGGAGTTCAAGACCNGCCCTGGGCAACATTAAAAAACCTCCTTTNNNCCAAAANCTTTAA
AAAA

Sequence 380

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTACAAGTCGACCCAC
GCGTCCGCTTCAGAATATCCAATTCATGTGAACTACAGGAAATTATAGTTTAGATATTTT
TAAATGATTTGCCTGTCACCGTATAACACAAGGGTGTCATGACCAAGCTAGATCTCTTTA
CCATATCATTAATAAAAGTCAAATTTTAAATTTGTGCCCAATTTGGCTGGGTGTGGTGGC
TCATTCCTGTGATTCCAGCACTTTGGGAGACCT

Sequence 381

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCC
GCATTTATTAAGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAA
TTGATCTTAACCACAAGGCTGAGAAGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGT
ATTAAATCCTCCAGAGAAGCCTGTAGTGTGGGATGCAAACTATTTTAAGTGTGACCATGA
GGTGTTTTTTTGTGGACCATTTTAAAGCCAATGATAGGTTCTAAAGCAATCTCAACCTGA
GTTAGGTAGAATGGGTTGGTTATCTGCACTCTAGCGGCCCTTCATAGCTATTGTATTCTG
GATTTCAATTCGGCACTTTATGTATTAGCTAAAAATTTCATGACCAGATCTTTTGAAGTA
TACAAAGTAAATCTTCAAGGTGGATAGTTTATCCAAGTGTAAAATGTGTTGCACTAGGTC
AGCTTGGAATTTTGAGATGACTTTTGGCATCATTGCATACATCTGGTTTGTGTACCTGCC
CGGGCCGGCCGCTCTAGAACNGTGGATCCCC

Sequence 382

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATTGACTAAAGTCA
GTTGGGGGAGAGAGAGGCGGAAGTATATTACTTTTATGCTTGGTTATACTAGAGAACAAA
TNGAAACTGACTAAAGAAACATTAGATCAGTGGTTCTCAGAGTATTGATATCTGGGAGTC
CCAGCAACAGTCTGAGGAGGTTCATGAGTTCAGAATATTTTGATAATAACACTAAGATGG
TATTTACTCTTCTAACTGGGTAGATATTTGCACTGGT

Sequence 383

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATCTGCATATACACCAT
TAATTTTACATCGTTGAGGTAGCCAAAACTGCTCGTAAGTGGGCTTTTATTAAATAATAT
AATGTTCTTAATAGAGGAAAAAGGAATTGAATACATTTTTAAAAACAAAATAACAAAACC
AATCCATTGTCCCACAAAAGAAAATCAGTGGAGACAAAAGCAGTTTAATTTGCTGGATTC
TTTTGTGGCTTATTTTTTGAGTATTATTTACAAAATGTTAGACTAATTTTTAAGCAATAT
TAATAATAAGCAACATACAACTCCAAGAATAATATAATAAATAATAAACTGCGGACGCGT
GGTTCGAAGCTTGCTCGNNGGGGGCCGGGNCGCTTCNAGGCCCNCCCGGGCAGGTACCCA
GTNATCACATAAATTCTGCAATCATNTGGNTATTNAGCTTNACNTGNTTTTTTTATTTGN
NGAANTTGTTGTTGTATTCAG

Sequence 384

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTACAAGTCGACC
CACGCGTCCGCTTCAGAATATCCAATTCATGTGAACTACAGGAAATTATAGTTTAGATAT
TTTTAAATGATTTGCCTGTCACCGTATAACACAAGGGTGTCATGACCAAGCTAGATCTCT
TTACCATATCATTAATAAAAGTCAAATTTTAAATTTGTGCCCAATTTGGCTGGGTGTGGT
GGCTCATTCCTGTGATTCCAGCACTTTGGGAGACCT

Sequence 385

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTT

TABLE 1
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TTAAGAAATAGGGTCTCACTCTGTCCCCCAGGCTGGAGCCATTATAGCTCACTACAGCTT
CTGACTCCTAGGCTCAAGGGATCCTGCCACCTCAGCCTCCCTGGTAGCTGGGACTATAGG
CAGGAGATCGCTTGAACCGGGAGGCGGAGGTTGCTGTAAGCTGAGATCGCGCCATTGCTT
TCCAGCCTGGGTGCCAGAGCAAAACTCTGTCTCAAAAAAAAAAAAAAATAATAATAATAAA
TAAATAAAAAGGCAAGGAATATAGGGAAAAGTCAAAAGAGATGGACTGTGAGAAGACTGG
GAAAGCCAGAAGAATGGNGGAAAATGTAGCATGGAGTAAGACAATAAAAATATAAGAGGA
CTCATTTCGGACGCGTGGGTCGACTCACCTCGGCCGCTCTAGAACTAGTG
Sequence 386
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTACAAGCTTCGACC
CACGCGTCCGGGAAATTTTAATTAAAAATAGGTGAACATTTTAAATGACCTAATACATAT
TTAGTCCACATTGAAACTTTGGCATTTTGTCATTGCCATTAAAATTTTGATGGCATTAAA
ATTTGATGCCATTAAAATTTTGATCAGTAGGTAGCATTTTTTTCTTAGCTACAATTGTTT
TTTTTAATTATAAGTATTAAAAATTCATGAAGATGATTCTTTTTGTAAAACAGTTTTGCA
TAAAAAGTAAGTCTCATTTTAAAGCAACTACCAACTTACTGGCCACCT
Sequence 387
AGGTCTTCGACCCACGCGTCCGATGGTTTTTGCAAAAATTGAAAATGCATCGATATTACA
GTTAATTTTTTCAGTGTGTATGTGGTATTAGGCTTAGAACTATAACACAGGAAGTTTTTA
GAGTATGTCCACTCTGGTTTACTCCTTTGTAAGTATTAATACCTGATAATTTACATCCTA
CAGCCCTGCCTTTTTTTTTTTTTTTTCAAGTTTGTCCCAGCAAGTCTTGGCCCTTTGCATT
TTCTTAATACATTTTAGTACCTGCCCG
Sequence 388
CCGCGGTGGCGGCCGAGGTACAAAGAACAAAGGGAAGCTAAGGAAGAAAAGATAGTCAAT
AAAAGATGTCTCATCTGGGCTTAGTGGCTCATGCCTGTAATCCCAACACTTTGGGAGGCT
GAGGCTCGAGGACTGCTTGAGTCCAGGAATTTGGGCAAGTAGGAAATTACTGAACAGCTG
CTATCACAGACAAATGCCTAACATTGTGAAGTGCTACACAGGGGAAGGAGACCCACGCTA
AGAGGAGAGCATGCACCCAGACACAGAACTCAGAGGACACAGTTCAAAACACACATACAA
GAGGCTTAGGCACCTGTGGGCGTGTGTGTGCTCACAGCCAGCAAAATGAAAAAAAATCCC
AGCTCTGAAGGAGAGGCAAGTGCATGGCTTCCGTACCTGCCCG
Sequence 389
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGA
TGGTTTTTGCAAAAATTGAAAATGCATCGATATTACAGTTAATTTTTTCAGTGNGTATGT
GGTATTAGGCTTAGAACTATAACACAGGAAGTTTTTAGAGTATGTCCACTCTGGTTTACT
CCTTTGTAAGTATTAATACCTGATAATTTACATCCTACAGCCCTGCCTTTTTTTTTTTTT
TCAAGTTTGTCCCAGCANGTCTTGGCCCTTTGCATTTTCTTAATACATTTTAGTACCTGC
CCGGGCGGCCGGCCGCCCGGGCAGGTACNACTACCTCTTTAAAGTTGTCCTTATTGGAGA
TTCTGGTGTTGGAAANAGNAATCTCCTGTCTCGATTTACTANGAAATGAGTTTAATCTGG
AAAGCAAGAGCACCATTGGAGTAGAGTTTGCAACANNGANGCATCCAGGTTGATGGAAAA

Sequence 390
TCCCCGNGGTGGCGGCCGAGGTACTATTGACTAAAGTCAAGTTGGGGGGAGAGAGAGGCGG
AAGTATATTACTTTTNTGCTTGGTTATACTAGAGAACAAATAGAAACTGACTAAAGAAAC
ATTNNATCATTGGTTCTCAGAGTATTGATATCTGGGAGTCCCAGCAACAGTNTGAGGAGG
TTCATGAGTTCAGAATATTTTGATAATAACACTAAGATGGTATTTACTCTTCTAACTGGG
TAGATATTTGCACTGGT
Sequence 391
AGGGCGAATTGGAGCTNNCCGCGGTGGCGGCCGAGGTCTTCNACCCACGCGTCCGATGGT
TTTTGCAAAAATTGAAAATGCATCGATATTACAGTTAATTTTTTCAGTGTGTATGTGGTA
TTAGGCTTAGAACTATAACACAGGAAGTTTTTAGAGTATGTCCACTCTGGTTTACTCCTT
TGTAAGTATTAATACCTGATAATTTACATCCTACAGCCCTGCCTTTTTTTTTTTTTTTCA
AGTTTGTCCCANCAAGTCTTGGCCCTTTGCATTTTCTTAATACATTTTAGTACCTGCCCG

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Sequence 392
CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTACCTGAAAATGCTTATTCTAGCTT
CACATTTGATTGTTTGGCTAAGAAGAAAATTATTTATTAGACTTAATTTTCCTCACGAGT
TTAAAGATTGCTTCAGATCTTAAACTTCTAATGAGGAAAGCTGAGAAGTCCAATGCCATT
CTGATTCTTGCAACTTACAAGTAGTCTTTTTTTGTCTAGACGCTTTCAGGACCTTCTTTT
TTCCTCAGTCAGTGTATCCAAACCTTCACAGTGATATCTTTTGGGTACCT
Sequence 393
CCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCATTTATTAAGGCTTGTATATGT
TCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAATTGATCTTAACCACAAGGCTGAGA
AGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGTATTAAATCCTCCAGAGAAGCCTGT
AGTGTGGGATGCAAACTATTTTAAGTGTGACCATGAGGTGTTTTTTTTGTGGACCATTTTA
AAGCCAATGATAG
Sequence 394
GGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTCTTCTACCCACGCGTCC
GCACATTTTGATGGTCAGTCAATAACTTAAGCAGTTACCAAAATACTAGGTATCCAAGGA
GCGAGAGGTGGGCGAGCATAAGAAACACATTTCTCATGGCACAGCTCTGCCAAAGCCCTG
CAGAATCATTTACACATAGGTCTTTGGTTAGTAGCCCCTGGCACAGAATTCTGATCTTAA
ACAAATATTGTCTATAATCAAGTAGAGCAATGCAATTAAAAAAAAAAAAGCACAGGTTTTG
GGGCCATGCTGAAATCCCAGCCTTGCTATTTGCTGGCTGTGTGACCGTGGTTCCTTGGTC
TCATTATGCTTTGGTTCCCGTATCTATAAAACGGACGTAATAATGTCTCCCTCTCATTAT
TGTGAAGTCGAAATGATGTCTGTAAAGTGCCCAACACAGTACTAAAGGGCTATT
Sequence 395
CCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACCCACGCGTCCGTTTAAGTAACAT
TCAGATTTGTGTGTGTGGAGAGGTTGTAGGGAACAGAATTGTAGGAAGGTGCTCACACCT
GTTTTTGTTTGTTTGTTTTATGTATATATGGTGGGTAGAAAATAAGGATTAATGAATGCA
GTAAGGTATTTGAGCACTCTTGTTTATCTTGTGTAGGTGCCAACCAAATATTTTTATAGA
GATGTGGTTAAGCCTCTTGGCATGTTCAACTGTGTACCT
Sequence 396
CCGGGCAGGTCTCTTGTCTAGTATACTCAAGGCAGCCTAGTAAATTATTATTTATCTATA
CAATACTGGAAAAACTTGTAGACAAAAACATGACTTGAATTGCTAAAAAAAAAAAAAAAA
NGANGGAGAATGAAAACTTCCGGACGCNTGGGTCGAAGCTTGACCT
Sequence 397
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCGCGCGTCCGCATTT
ATTAAGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAATTGATC
TTAACCACAAGGCTGAGAAGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGTATTAAA
TCCTCCAGAGAAGCCTGTAGTGTGGGATGCAAACTATTTTAAGTGTGACCATGAGGTGTT
TTTTTGTGGACCATTTTAAAGCCAATGATAGGTTCTAAAGCAATCTCAACCTGAGTTAGG
TAGAATGGGTTGGTTATCTGCACTCTAGCGGCCCTTCATAGCTATTGTATTCTGGATTTC
AATTCGGCACTTTATGTATTAGCTAAAAATTTCATGACCAGATCTTTTGAAGTATACAAA
GTAAATCTTCAAGGTGATAGTTTATCCAAGTGTAAATGTGTTGCACTAGGTCAGCTTGGA
ATTTTGAGAT
Sequence 398
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCGCCATGTTGGCTGGGCTGGT
CTCGAACTCCTGACCTCAAGTGATCTGTCCTGGCCTCCCAAAGTGTTGGGATTACAGGCT
ACTAAAGCTTTTTATTTATTTCTGTGGATTTGAGTTATTGTGTAGTGTCATTTATTTTTC
ATATGAAGGATTCCTTTTGGTATTTTTTGAAGAACTTCTTTATCAGAATTAATTATCTCA
CTTTTGAAAATTTTTAACAATCTAGAAACGTCTTTTTTGTTTTTTGAAGAATAGTTTTCT
GGATGTAAAATTTTTGGTTAATTTTGTTTTTCTTTGAACACTGAATATTTAATCTTATGC
CTTCTGGCTTTCAGTACCTGCCCG
Sequence 399
CCGCGGTGGCGGCCGAGGTAGCTTGAGTCGACCCACGCGTCCGTTCAGATCCGTTTCAGA

TABLE 1
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AACGTGAGTCTCTAGCTCAGGAGATTTCCACAACTGTCCTTAGTAACCTGATCTTATTCT
CATGTTTAACCTTGGCAGTGGGAAGTTCTTCCTGGTATCCTGCCTAATTTACTGGAGTTG
GCATTAATGCCATTTCCCCCTAAGGCGTGGCTCTTGGACCAGTATCACCTGAGAATTTGA
TAGACATAGACCCAGAGTTACTGAGGCAGGTGCTCTGTTTTGGGGACCAGCAATCGGTGC
TTTAGCAAGTTCTTTGGGTGATAGGGTTTGGAAACTACTGCTCTAAAGCATCATCTGTTT
TGACTTTGCCATGCACAATCTGAACTCACTCCCGTGAGGCCCTGCTCCTGATACTTTAAA
TCGTCCTGTCTCTTTTTCTGCCTCTCTGTGGAG

Sequence 400
CCGGGCAGGTACAGGCACCTATAGAATTTAAAGGGGAGATTTCTTTATTTTGTATTCAAT
GTATTAATAAGATTTTTAAAACATATTTTGGAGAAATTGCTAATTAGTGTATAATCCTGA
TGCCAATTCTAAAAAACCTTTTTTTTTTTTTGTAGAGACAGGGTCTTATTCTGTCACCCGG
GCTGGAGTGCTCTGGTATGATCCTAGTTCACTGCAACCTCAAATACCTGGTCTCAAGCAA
TCCTCCCACCTCAGCCTCCCCAGTAGCTGTCTCTATAAGCATGCACCACCACACCTGGCT
AACCTTCTTATTATTTTTGGTAGAGACAGTCTCACTATGTTGCCCAGGCTGGTCTTGAAC
TCCTAACCTCAAGCAAACATCCCTCCTCGTGCTCCCAAAATGCTNGGATTACCAGCATTA
AGCCTTACAAGCATAAGCTACCATGGACTGGCTTTCNAAAAAATATTTGGTTTAAAATTC

Sequence 401
CCGCGGTGGCGGCCGCCCGGGCAGGTGGAAAGGTGGGTGGGGAGAGGGAGGCTTATTTGT
TGCTGCAGTGTAACTAAGTGAAACCTAATNNATATGACTCAAACTAAGGTATATTTGGTT
AGATCTAGGTGAGTTCTACTTTAGAGGAAATCCTGGNAACTGTTGTTTGTTTGTAAGTTA
TAGCTGTAATTAATTTTCCCTGTATTCAAAGCCCCCAAACCCTGCATTCAGATACTATGC
ATTTAGACTTCCTTAGGCAAAGTCAAGGCAACAAGCTGATGATTCTAAGCTATTATTCAA
GGAGTATCTACCATCATAAAGGTGGTTTAGTCATATAGATAATATCAATCAATAATACAG
GAGATGGCAAAAATTTTTTGTGAAGAGCCAGATAGTANCTGAGTATGATGACCCCTAATC
TCAGCACTTTGGGAGGCTGATGGGAGAGGGTCATTTAAGACCAGGAGTTCAAAGACCAGC
CTGGGCAACATTAAAAAACTCCATTTCTACCAAAAACTTTAAAAAAAATTAGC

Sequence 402
GCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGGGAGGACCTAGGCAACGGCC
TGAGACTCCGAGACTCTATGTTGAAGATGCCTGGACTAACCTACTGAAGATACGTGGTTT
TACCAACAGCCAGCACCAATAGGAAGATATGAATGAAGCCATCTGAGACCAGCCATCTGG
CAGCCAAACTGCCAACTGACTGCAAATGCATGAATGATCCCACTGACACCACGTAGAGCA
CAAATGAGTTGCCTCCACTGAGCCCAGCCCAAATTGTTATCCTATAAAATCATAAAAACA
TAAACAGTTGTTTTAAGTCAAAAAAAAAAAAAAAAAAAGTGCGACCTGCCCG

Sequence 403
TACTATAGGGCGAATNGNAGCTNCCCGCGGTGGCGGNCGAGGTATTCAACAAGGGCCCTG
AGAGAGGGACAGGCAGCCCCTGTGAATCTTGCTGTTCAGCAGAGACAGGAGTCAGCACGT
GTGAGGGCAGCAGGGAAGTCTTCCTGGAGGAGTGAGACCTGGCGATGAGGAGGCACGGCA
GGGAGGTGGAACAGGCAGGAGAGACTCTTCAGGAATTGAGGAGATAGAATAGAGGACACT
AAAGCCTTAGAGAGGCCAGGGGTGGTGGCTTGGCAGGATCATCGCTTGAGGCTAGGAGTT
TAAAAGCAGCCTGGGCAACATAGCGAGACCCCATCTCTAAACACAAAAAATAAAAACCTG
CCCG

Sequence 404
CCGCGGTGGCGGCCGAGGTCAAAGCTTCGACCCACGCGTCCGTGATGCTGGCTTCCCGGT
CAAAGCTGAGGAGTTTGTGGTGCTTTCTCAGGNACCTTCTGTCACGGAAACCATTGCACC
CAAAATTGCAAGACCTTTCATAGAGACTTTCCTCAGGCCCTCAAGAGTATTGAGTATCTG
GAGGAGGATGCCCAGAAGTCCGCACAGGAGGGGGTGCTGGGACCACACACTGATGCTCTG
TCATCAGACTCTGAGAACATGCCGTGTGATGAAGAACCATCCCAATTAGAGGAGCTAGCT
GACTTCATGGAGCAGCTTACACCAATTGAAAAATATGCTTTAAATTACCTGGAATTATTC
CATACTTCTATTGAGCAAAAAAAAAAAAAAAAAGTGCGGCCGCTCTAGAACTAGTG

Sequence 405

TABLE 1

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TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCC
GGAAGTTTTCATTCTCCCTCTTTTTTTTTTTTTTTTTTTTTAGCAATTCAAGNCATGTTTT
TGTCTACAAGTTTTTCCAGTATTGTATAGATAAATAATAATTTACTAGGCTGCCTTGAGT
ATACTAGACAAGAGACCTGCCCG

Sequence 406

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTAC
CTGAAAATGCTTATTCTAGCTTCACATTTGATTGTTTGGCTAAGAAGAAAATTATTTATT
AGACTTAATTTTCCTCACGAGTTTAAAGATTGCTTCAGATCTTAAACTTCTAATGAGGAA
AGCTGAGAAGTCCAATGCCATTCTGATTCTTGCAACTTACAAGTAGTCTTTTTTTGTCTA
GACGCTTTCAGGACCTTCTTTTTTCCTCAGTCAGTGTATCCAAACCTTCACAGTGATATC
TTTTGGGTACCT

Sequence 407

CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTCTCTTATATTGAAGTAAAATTTA
AAATTTAATACTTTTTATTTTTTAAAAGCATGTATGGCATCATTTCAGTCTTATTAAATT
CTCTCTGCATCCATTCACCCATCCTTCTTTTTGTGTGTGTGTGTAGTGGTCTCTGTGAGA
GGGTTCATTAATGTCAATCCTGATCATTTCTTCCTCAAGAGATGTCAGTAGATTTGTTTT
TTTTGCTTTGGACTTTTATGAATTGATTGAATTTTTATGCCAATTATTTTTAAAGTATTA
CATAGAAGAACAAATGGACAGAAAAATTTAAATGCAATCAAATCTTGTTGATTTTGAAGT
ATAGGAAATAATCTTTTTTTTTATTATACTTTAAGTTTTAGGGTACCTGCCCGGGCGGCCG
CTCTAGAACTAG

Sequence 408

CCGCGGTGGCGGCCGAGGTACTATTGACTAAAGTCAGTTGGGGGAGAGAGAGGCGGAAGT
ATATTACTTTTATGCTTGGTTATACTAGAGAACAAATAGAAACTGACTAAAGAAACATTA
GATCAGTGGTTCTCAGAGTATTGATATCTGGGAGTCCCAGCAACAGTCTGAGGAGGTTCA
TGAGTTCAGAATATTTTGATAATAACACTAAGATGGTATTTACTCTTCTAACTGGGTAGA
TATTTGCACTGGT

Sequence 409

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTACAAGTCGACCCAC
GCGTCCGCTTCAGAATATCCAATTCATGTGAACTACAGGAAATTATAGTTTAGATATTTT
TAAATGATTTGCCTGTCACCGTATAACACAAGGGTGTCATGACCAAGCTAGATCTCTTTA
CCATATCATTAATAAAAGTCAAATTTTAAATTTGTGCCCAATTTGGCTGGGTGTGGTGGC
TCATTCCTGTGATTCCAGCACTTTGGGAGACCT

Sequence 410

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGACCAGTGCAAATATCTACCCAGT
TAGAAGAGTAAATACCATCTTAGTGTTATTATCAAAATATTCTGAACTCATGAACCTCCT
CAGACTGTTGCTGGGACTCCCAGATATCAATACTCTGAGAACCACTGATCTAATGTTTCT
TTAGTCAGTTTCTATTTGTTCTCTAGTATAACCAAGCATAAAAGTAATATACTTCCGCCT
CTCTCTCCCCCAACTGACTTTAGTCAATAGTACCT

Sequence 411

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACGCGTCCGA
TCACTTTTTTCATTGATACCTTATTAGATAAAACATTAGCCCCCTAGAGTGNNNTGTGAA
GGAAATATGCCTAATAAGAGATGATAGTTTTAGCAATAAATGAGCATTAGAACTATTATT
TATTAATGAAATGAACTGGTGGTCTGAAAGTGATGATAAACAGACAACTGTGGAAAATGA
ATTATTAAAATTCCATGGAATTCCTTTTGAAGTTTATGAAGTACCTGCCCG

Sequence 412

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGC
ATTTATTAAGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGG

Sequence 413

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAACTTGTGATGCTT
TTGGCAGGAATTACAGAACAACCAATGCCATTCAAGTTGTGGAGATTATACTNGCAGGTG
AACTCGTAAAGAGAAGATTCTGGAATGCCTATATCTGAAAGCTTGAGTCGACACCTN

TABLE 1

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Sequence 414
CCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGGAATGAGTGAGTGCAGAACTGGC
AACCAGAAGACAGGAACAAGGCCTGGGAATGGAGCGGAAAGGTAGCTGCTATATATAGTT
CCTTCAGCCAGTAACGATTAGAGCCAATAGCCATCTGGATGATGAATGGCTCCTAATTGC
CTTAAATTACGGCAGTTAGCTAAGGGTTTCTGTTGCTACATGGGTTACCGTAGGCCGCTG
CACCCTGCATAACTGTCCTCAGGCCTGCGTCCCCTGAGTCTCAGCACTTGGGCCTCCACC
TGCCCG
Sequence 415
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTCCCAAAGTGCTGGAA
TCACAGGAATGAGCCACCACACCCAGCCAAATTGGGCACAAATTTAAAATTTGACTTTTA
TTAATGATATGGTAAAGAGATCTAGCTTGGTCATGACACCCTTGTGTTATACGGTGACAG
GCAAATCATTTAAAAATATCTAAACTATAATTTCCTGTAGTTCACATGAATTGGATATTC
TGAAGCGGCCCCNTGGGTCGACTTTGTAACCTGCCCGGGCGGCCGNTCTAGAACTAGTGG
GATCCC
Sequence 416
TATGGCGAATTGGAGCTCCCCGCGGTGGCGGGNCGAGGTNAAGCTTCGACCCACGCGTCC
GATTATTCTCTCCATTTAGGCTATAAATCTTTCAGTGTAGGGTGTTTCTAATGTCNTATT
CTTCCAAAAAAAAAAAAAAAAAAGT
Sequence 417
CCGCGGTGGCGGCCGAGGTACTCTTGATGTCATAAGATTAGAAAATGTGGTTAATTGTCA
TCAACCCATTAAGTTCTTAAATGTCATTGAATGGAGTCCTTGTCATGTTACAGAGGAGCG
TAAAATTGTGGTTAAACATTTTTTTAAAGATTACATGGTAGAGCCACAGTTTGTTATGCA
GAAGGAAAATTTAGCAAATATTATTTTGCTTAATAGCCTTTAAAAAATCGTATAAATTTG
ATTTGTAGTTTTATCCCCAGAGTCATTAGATTTTTCCAAAAAAAAAAAAAAAAAAGGT
Sequence 418
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGCCAAAGCCT
TAACTTAGATTGTTACTTATGTTTCTAAATCTGNGGAAGCACATTTCCTTTTNTTNTNNT
TTTCTTTTACTGTTAATATCCTTATTCTCTATTTTACCAGTGGAGAATGNTTAGTATTAA
TTTCCATTTANCTCANGATTCAAGAAATGCAAAGTGCTATTTTTATCAAATTTCTGAAAG
CCTACTGTCTTCTGNTTTGGAAGTCCCACAACAGCTCTTTAATTTCCTTAAGCCCCACTT
TCCTCATCAGCAAGTTGGTGTGGCAATGGATCATAATAGGTTGCTGGGAGGATGAAGTGA
GCGGACCGCGTGGGTCGAAGCTTGTACCTN
Sequence 419
CCGCGGTGGCGGCCGCACTTTTTTTGTATTACTTCAACTTTTAAAAATTCTAAAGAAAAC
CATCATCTCAGACCAGCATTTCCGGACGCGTGGGTCGAAGCTTGACCT
Sequence 420
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGTCAAACATCT
CCCTCGTCCGGATCCTTCTAACGCAGGAGTCTCAGACGCAAATGCCGGCAAGGGCCAGGC
AGGTGATGTAAGATGCGTGGAGCAGATGCCAAGCCACAGGGAGTGGTGGAGACTGGGGTG
AACTGGAAAGCACCT
Sequence 421
CCGCGGTGGCGGCCGCCCGGGCAGGTACACAAACCAGATGTATGCAATGATGCCAAAAGT
CATCTCAAAATTCCAAGCTGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCT
TGAAGATTTACTTTGTATACTTCAAAAGATCTGGTCATGAAATTTTTAGCTAATACATAA
AGTGCCGAATTGAAATCCAGAATACAATAGCTATGAAGGGCCGCTAGAGTGCAGATAACC
AACCCATTCTACCTAACTCAGGTTGAGATTGCTTTAGAACCTATCATTGGCTTTAAAATG
GTCCACAAAAAAACACCTNATGGTCACACTTAAAATAGTTTGCATCCCACACTACAGGCT
TCTCTGGAGGGATTTAATACTTTGG
Sequence 422
GGTGGCGGCCGCCCGGGCAGGTGTCAAACATCTCCCTCGTCCGGATCCTTCTAACGCAGG
AGTCTCAGACGCAAATGCCGGCAAGGGCCAGGCAGGTGATGTAAGATGCGTGGAGCAGAT

TABLE 1

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GCCAAGCCACAGGGAGTGGTGGAGACTGGGGTGAACTGGAAAGCACCT

Sequence 423

TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAATATAC
AGAGGTATAATCTGTAACATCAATAATGTAAAGTGGGGAAGGGCAAGGTGGAAAAGGAGT
AGAATGCTTGTATGTGACTAAAATTATGTTGGTATCAGTTTAAAATATATTATTATAACT
TTAGAATGCTATACCCATTCCCACAGTAATTCCCATAGTAACCAAAAAGAAAATATCTGT
AGGATACACACAAAAGAAAATCAGAAGTAGATGCAAACTTGTCACTACAGGAAAAAAAAA
GCTATCAAAATAGAAAACAATAATGGAGAAAATAAGACACCAAAAGCTATAAGACTCACA
GAAAATAAATAATAAAATGGCAAAAAGAAGCGGACGCGTGGGTCGAAGACCT

Sequence 424

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAAGCTTCGAC
CCACGCGTCCGATTTGGCAGAAATTCAGGGTAATGTCAAGGTTCTTAAATCTGAGAGAGA
CAAGATCTTCCTTCTTTATGAACAGGCACAGGAAGAAATTACCCGACTTCGACGAGAAAT
GATGAAAAGCTGTAAGAGTCCTAAATCAACAACGGCACATGCTATTCTCCGGCGAGTGGA
GACTGAAAGAGATGTANCCTTTACTGATTTACGAAGAATGACCACAGAACGAGATAGTCT
AAGGGAGAGGCTAAAGATTGCTCAAGAGACAGCATTTAATGAGAAGGCTCACCTGGAACA
AAGGATAGAGGAGCTGGANGNCCNTCCCGGGGGCCGGGGNCNGCCCGCCCCNNGCAGGGT
CANATGATTGCAGAATTTATGTGATTCCTGGGGT

Sequence 425

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTACTGAGCCACTTA
CAATTATTTCTGAAAAATCTCAGAGAACTGAGGATAGATCAGAAAATTTAAAGAAAGCAA
ATACCAAATTTTCAAACCAGGATAGGAAGTGAATACCTTGTAAATACACTTTGTTAAGTG
ATGATAATTCTGAGTAAAAATTTAGAAGATTTTGAGAAAAGCATTTGAACTTCTAGGGGC
CAATAAAATACCATGCAGAAGAATGTTTAAAAAGTCATGCCAAATTTGAATCCATTTGAT
CCTCAACCTCATCAGATGTTATATGCCAAACTACTTATTTTGGCTTAGATAATAATCATA
TAGAATGAAACTTTCCACAAATAGACTGTGGTCAGTGGCTG

Sequence 426

CCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACCCACCGTCCGGCAATGATGAGCA
AAAACAAGTTTGGTCCCCCTGTTATAGNGCCTGGTAAAGGTTTTTGTTGTTGTTTTGCAG
GGGTGGGGGAACCAGGAAATCAGATCATCACAACAATATATACTTATCTGTAACTATGGT
AACTGCTACAGCAAAGGGGCGTATCATACTATTAGCATACTAAGTTTCACTTAAAGAGGT
CGGA

Sequence 427

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGTCAAACATCTCCCTC
GTCCGGATCCTTCTAACGCAGGAGTCTCAGACGCAAATGCCGGCAAGGGCCAGGNAGGTG
ATGTAAGATGCGTGGAGCAGATGCCAAGCCACAGGGAGTGGTGGAGACTGGGGTGAACTG
GAAAGCACCT

Sequence 428

TANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACCCAC
GCGTCCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGTTGGGAGCACAAAGA
TGAATAATAACAATAGGTTCACAGAAAAGATGAATTGATTGAGAGAAAAAGAACCCTCCA
GGAGCCCTCAGCGTAGTAGGGGGTTGGTGTTGGAGGGTGGAGGAATGGAAAAGGCCCTGA
AATGCAGGCAGAGAAATGATGAAACAATTCAGGGGCTGTGGTGAGGTTAAATGAATATCT
TTACAGCAGCCTCNAAGACTGATCAGGTTACTATACCCTCTCTTNTGTCCACNGTGCATT
TNAA

Sequence 429

CCGGGCAGGTCAAGCTTCGACCCACCGTCCGGCAATGATGAGCAAAAACAAGTTTGGTCC
CCCTGTTATAGAGNCTGGTAAAGGTTTTTGTTGTTGTTTTGCAGGGGTGGGGGAACCAGG
AAATCAGATCATCACAACAATATATACTTATCTGTAACTATGGTAACTGCTACAGCAAAG
GGGCGTATCATACTATTAGCATACTAAGTTTCACTTAAAGAGGTCGGA

Sequence 430

TABLE 1
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CCGGGCAGGTACACTCCAGCTCCTCTATCCCTTGTTCCAGGTGAGCCTTCTCATTAAATG
CTGTGTCTTGAGCNATCTTTAGCCTCTCCCTTAGACTATCTCGTTCTGTGGTCATTCTTC
GTAAATCAGTAAAGGCTACATCTCTTTCAGTCTCCACTCGCCGGAGAATAGCATGTGCCG
TTGTTGATTTAGGACTCTTACAGCTTTTCATCATTTCTCGTCGAAGTCGGGTAATTTCTT
CCTGTGCCTGTTCATAAAGAAGGAAGATCTTGTCTCTCTCAGATTTAAGAACCTTGACAT
TACCCTGAATTTCTGCCAAATCGGACGCGTAGGTCGAAGCTTGTACACCTCGGCCGCTCT
AGAACTAGTGGGATCCCCCGG

Sequence 431
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACGATTTAAAATCTC
CTCCTCCTACAGCGGTCGAGTATTGAAGCAGGTCTTTGAGGATGGGCNGGAATTAGAGTC
ACCAAAGGAGGAATACCCTCACAGTTTTCTGCAAGAGTCTCTTGAAACAATGGATGGTGT
TTATGGGTCTGGGGAAGACCCCNCGCCCCAAATGTTGCTCCCCT

Sequence 432
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACAAACACACACACAA
AGTTTAATATACTTTTTAAAAAATTTTATTGTATTGTTTTCTTGAAATAGGGTCTTGCTA
TGTTGCCTAGGCTGGTCTTGAACTCCTGGGATTAAGCAATCCTCCCAACTAAGCCTTCCA
AAATGCTGGCATTACAGGTGTGAGCTACCACAATCAGTCTCTTAGATTTTGTTTTTTAAG
AACAATTCGAAGTTTACTGCAAAATTGTGAAGAACGAACAGACTGTTCCCACATATCCCT
TTTTCTTTACACACCGGACGCGTGGGTCGAAGCTTGACCTGCCCG

Sequence 433
CCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACCCACGCGTCCGGCTTGAGGTGGG
TTTAGGAAACATTTGGTATCTNTGGCAGGGACAGATGTTGACCTGGCCGGTCGGCAGCTT
TTACAAACCTAAGGACTTCAGGGTCCGGTTGCGCATGAGGACCGGGGAGGACAGAGCTGT
TTGCAATAGGTGTGGGCTTTTATAGCATTGTGAGCATTTCACGTTAGCGTAAGTGTTGCT
GCTGTGCAGGTGGTCTCTGGGGCTTACAATCTTCCCCAATGTTCTTCCCCACCCCTCCCA
CCATTCTGGTGAACAAGCCTCTTGGGATTCTTTGAAAAAAAAAAAAAAAAAAACCT

Sequence 434
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAATATACAGAG
GTATAATCTGTAACATCAATAATGTAAAGTGGGGAAGGGCAAGGTGGAAAAGGAGNNGAA
TGCTTGTATGTGACTAAAATTATGTTGGTATCAGTTTAAAATATATTATTATAACTTTAG
AATGCTATACCCATTCCCACAGTAATTCCCATAGTAACCAAAAAGAAAATATCTGTAGGA
TACACACAAAAGAAAATCAGAAGTAGATGCAAACTTGTCACTACAGGAAAAAAAAAGCTA
TCAAAATAGAAAACAATAATGGAGAAAATAAGACACCAAAAGCTATAAGACTCACAGAAA
ATAAATAATAAAATGGCAAAAAGAAGCGGACGCGTGGGTCGAAGACCT

Sequence 435
CAGGTACAGGCACCTATATGAATTTAAACGGGGAAGATTTCTTTATTTTGTATTCAATGT
ATNAATAAGATTNTTAAAACATATTTTGGAGAAATNGCTAATTAGTGTATAATCCTGATG
CCAATTCTAAAAAACCTTTTTTTTTTTTTGNAGAGACAGGGTNTTATTCTGTCACCCGGGC
TGGAGTGCTCTGGTATGATCCTAGTTCACTGCAACCTCAAATACCTGGTCTCAAGCAATC
CTCCCACCTCAGCCTCCCCAGTAGCTGTCTCTATAAGCATGCACCACCACACCTGGCTAA
CCTTCTTATTATTTTTGGTAGAGACAGTCTCACTATGTTGCCCAGGCT

Sequence 436
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTATTCAACAAGGGCCCTGAGAG
AGGGACAGGCAGCCCCTGTGAATCTTGCTGTTCAGCAGAGACAGGAGTCAGCACGTGTGA
GGGCAGCAGGGAAGTCTTCCTGGAGGAGTGAGACCTGGCGATGAGGAGGCACGGCAGGGA
GGTGGAACAGGCAGGAGAGACTCTTCAGGAATTGAGGAGATAGAATAGAGGACACTAAAG
CCTTAGAGAGGCCAGGGGTGGTGGCTTGGCAGGATCATCGCTTGAGGCTAGGAGTTTAAA
AGCAGCCTGGGCAACATAGCGAGACCCCATCTCTAAACACAAAAAATAAAAACCTGCCCG

Sequence 437
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCACGGTACCACGTAGCAAC

TABLE 1

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ATATGAGTATTTCTCTAGATAACTTTTTTTTTTGACAAGGTCTCACTCTGTTGCCCAGGCT
GGAGTGCAATGGTGCAATCTTGGCTCACTGCAGCCTTGACCTTCCCTAGCTCAGCTGAAC
CTCCCATCTCAGGACACCATTGCCTCCACTGCCCATCCTGCATCTGCCTGCCTACCCCAA
AAGTGTTGAGAATACAAGCATGAGCCAGAGCCACGGAACCTGGCCTCTAGAGAGACTTTC
TATTTTAGTTTTTTCTTCTCTTATTTGTGAAGCCTTGAAAAAACTACTGTGGTTTATTTA
GATTCTGGTTTGTGACTTTTTTAAATAAACTTTTTATTTTGGAATAAATTTATGTTTAGA
GAATAGTTGCAAACATAATAAAGTGAGTTTTCATAAACGCCTTACCAGTTTCCCCTGNTG
GTTAACATTTTACATCACCATGCTGTTGCATTGGTCAAAACTA

Sequence 438

CCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCATTTATTAAGGCTTGTATATGT
TCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAATTGATCTTAACCACAAGGCTGAGA
AGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGTATTAAATCCTCCAGAGAAGCCTGT
AGTGTGGGATGCAAACTATTTTAAGTGTGACCATGAGGTGTTTTTTTGTGGACCATTTTA
AAGCCAATGATAGGTTCTAAAGCAATCTCAACCTGAGTTAGGTAGAATGGGTTGGTTATC
TGCACTCTAGCGGCCCTTCATAGCTATTGTATTCTGGATTTCAATTCGGCACTTTATGTA
TTAGCTAAAAATT

Sequence 439

TCGAGGCCGCCCGGGCAGGTACACAAACCAGATGTATGCANTGATGCCAAAAGTCATCTC
AAAATNGCAAGCNGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCTTGAAGA
TTTACTTTGTATACTTCAAAAGATCTGGTCATGAAATTTTNAGCTAATACATAAAGTGCC
GAATTGAAATCCAGAATACAATAGCTATGAAGGGCCGCTAGAGTGCAGATAACCAACCCA
TTCTACCTAACTCANGTTGAGATTGCTTTAGAACCTATCATTGGCTTTAAAATGGNCCAC
AAAAAAACACCTTATGGTCACACTTAAAA

Sequence 440

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTAAAACTTAAAGTA
TAATAGTAATAATAAAAAAAGAGGTGCTTTTCTCCTAAGTCAACATTTTAGAGGAAAAGA
GTCAATTCAAGCAATTATCACATATGTGTAACTGAAGCACATATGTGTAACTTTTCAAGA
GTGATTAGATGGTCTGTTGTCTTTGAAGTGATAGTCAAATATCAGGTGTGTTCTAGGGAG
GTTGTGTAAGACTTTTGCTTGTATTCTCCCGGACGCGTGAGTCGACTCAAGACCTGCCCG

Sequence 441

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACG
CGTCCGATTATTCTCTCCATTTAGGCTATAAATCTTTCAGTGTAGGGTGTNTCTAATGTC
ATATTCTTCCAAAAAAAAAAAAAAAAAGT

Sequence 442

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTACAAGTCGACCCACG
CGTCCGCTTCAGAATATCCAATTCATGTGAACTACAGGAAATTATAGTTTAGATATTTTT
AAATGATTTGCCTGTCACCGTATAACACAAGGGTGTCATGACCAAGCTAGATCTCTTTCA
TATCATTAATAAAAGTCAAATTTTAAATTTGTGCCCAATTTGGCTGGGTGTGGTGGCTCA
TTCCTGTGATTCCAGCACTTTGGGAGACCT

Sequence 443

CGCCCGGGCAGGTACACAAACCAGATGTATGCAATGATGCCAAAAGTCATCTCAAAATTC
CAAGCTGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCTTGAAGATTTACTT
TGTATACTTCAAAAGATCTGGTCATGAAATTTTTAGCTAATACATAAAGTGCCGAATTGA
AATCCAGAATACAATAGCTATGAAGGGCCGNTAGAGTGCAGATAACCAACCCATTCTACC
TAACTCAGGTTGAGATTGCTTTANAACCTATCATTGGCTTTAAAATGGTCCACAAAAAAA
CACCTCATGGTCACACTTAAA

Sequence 444

ACNGNCAGGTACCAAGATTAAGGACAGAGTTCCCTCCATTGGTCATTGATTTGNAAACCA
AAATGTATCTGTGACAGGTATTAATCCGGACGCGTGGTCGAAGACGAAAGGACACGAGAA
ATANGGACCTANNCCGCTCTANAACTAGGNATCCCCNNNNCTGCAGGAATTCGATATCA

TABLE 1

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Sequence 445
CCGCGGTGGCGGCCCGCCCGGGCAGGTGCCAAAGCCTTAACTTAGATTGTTACTTATGTT
TCTAAATCTGTGGAAGCACATTTCCTTTTCTTCTTCTTTTCTTTTACTGTTAATATCCTT
ATTCTCTATTTTACCAGTGGAGAATGTTTAGTATAATTTCCATTTANCTCAAGATTCAAG
AAATGCAAAGTGCTATTTTTATCAAATTTCTGAAAGCCTACTGTCTTCTGCTTTGGAAGT
CCCACAACAGCTCTTTAATTTTCTTAAGCCCCACTTTCCTCATCANCAAGTNGGTGTGGC
AATGGATCATAATAGGTTGC
Sequence 446
CGGGCAGGTACCCTTATTTTCCCTGATACAGCACAACTCTGCCTATTCTAATCATGACCT
AGACACATTCAATGAACTACAAGTTCTCCTTTACACGGACGCGTGGGTCGACTCCGGACG
CGTGGGTCGAAGACCTCGGCCGCCT
Sequence 447
CGAGGTCTTCGACCCACGCGTCCGCTTTCTTTTGTTGTTAAGGACCCATGACCTGCAGTT
TCCCTAACATTCATTTTTATACAGGGCAGAGGTATGTGTGCGAGCTCAGATACCTTAAAT
TCATATGCCTTTAATACAATCAGGCAGATTTCTAAATGAGGGATGCTTCCCCACAAATGG
AGAGTGAAAGTGGGCCAGCCTAAAAGGACCTCCATAGCACTGTGCATGGCCAGCTGTTTG
TGGCTGTACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnATCATGNTCATAGCTGNTTNCTGGG
TNAAAATNGNTANTCCGNTCANAATTTTCACACANTCNTANNAACCGTTNCCTTNAATTG
TTNANNCCNGGGGTNCCNAATTGGGNGNNCTNACTNAAATNAANTNGGGTNGCTTNTNTT
GNNNNNTTTTTANNTNNGTTTANCCTTNTNNNCANNTTNNTTNTTNAAATTNGNNAAANN
CCNNGNGGGGAGGGNNNNTTTNNNNNNTNNNGNNANNNTNNNNGNNNNNNNGGNNNNNNN
TTNATTNNNNTCTNTNNNNNTNNTNNNNNNTANNNNANTTTNNNNTTNNNNNNNNNGGN
NNNNNNNNNNNNNTNNANNTTTANNNNAANNNNGGNNNNTNNNNNTTNNANTNNNNTTNG
NGTNGTTNTNTNNNNNNNANNNTNTNTTNNNNNNNNNNNTNTNNNNTTTNNTTTNNNNA
NGNNNTTNTTNTTTTTTTT
Sequence 448
GCGGCCGCCGGGCAGGTTACAAGTCGACCCACGCGTCCGCTTCAGAATATCCAATTCATG
TGAACTACAGGAAATTATAGTTTAGATATTTTTAAATGATTTGCCTGTCACCGTATAACA
CAAGGGTGTCATGACCAAGCTAGATCTCTTTCATATCATTAATAAAAGTCAAATTTTAAA
TTTGTGCCCAATTTGGCTGGGTGTGGTGGCTCATTCCTGTGATTCCAGCACTTTGGGAGA
CCT
Sequence 449
CGCGGTGGCGGCCCGACCAGTGCAAATATCTACCCAGTTAGAAGAGTAAATACCATCTTA
GTGTTATTATCAAAATATTCTGAACTCATGAACCTCCTCAGACTGTTGCTGGGACTCCCA
GATATCAATACTCTGAGAACCACTGATCTAATGTCTTTAGTCAGTTTCTATTTGTTCTCT
AGTATAACCAAGCATAAAAGTAATATACTTCCGCCTCTCTCTCCCCCAACTGACTTTAGT
CAATAGTACCTCGGCCG
Sequence 450
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTGTCAAGCTTCGACCCACG
CGTCCGAAAGAGACCCCTGGGCTAGGGAGCCATTTGCAAGTCCCTCAGATGGCCTCAGGT
GTGGGTCATGCTCCACTGCAGCCATGGTTACTGGGAAGCCAAGTGGACTCCATGGGGCTC
CAAGCAGGGGAGGGAGCTCCTGGGAGACACAGTGTGGCCCAGATGCCCTGGTCATGGGGA
CATCCAAGCACAGGTGAGAAACTTGGGCAGGGAGGGTGCAGAGGAAATTTGGAAATGGCT
GAGAGGCTGGACTCAAGGTCTCTTGGGCTTGAACTGAGCTCAAGCAGTCCACCCACTTCA
GCTTCCAGGGTGCTGGGATTACAGTCGTGAGCCATGGCATCCGGCTGGACTCAAGGTCTC
TTGTTCCCTGATCCTGGGCTTGGCATGGAGAAGGGAGGAAGCTGAAGGGGGCAGGTAAAA
AGAT
Sequence 451
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGCTTCGACCCACGCG

TABLE 1
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TCCGATTATACCCTAAAAAAGTAGAAAGATGGAATAATTAGGAGTAAAATTAGTGAAATG
GAAAGATATGTTATAGAAAGGACCAAGAAACGCAAAAGTTGGTATTTGAAAAGACTGAAA
AAATTCATGAACCTGTGAAAACAGTGGTCAAGAAGAAAAGAGAGGCATATTTTGATCTCT
GTTTTACATGTTACTCAATGTTCATTGCTGCCTCCCTTGTCCATAAAGTGCCTTTAGTGT
GTATGTTACTTTAGATTATCTTGGTGTCATCAAGCTTTACTCAGCAAAGAACCACTTTGT
TGTCTACTTTAAAACATAAGTTATCTTTAAAAGAATGGGTATCTTTTATAGTTCCATATT
AATGGCGAAGAAACTGCAGGTAACAGTGCCTTACCAGCTGGGTTTTGCTAACTTTTCTC
Sequence 452
CCGCGGTGGCGGCCCGCCCGGGCAGGTTTTATATTTTTTTCCTCTTTAAAAAATAATTTG
GTTTTGAATATTAAATTTACATATTTCTAAGTTAAATCAACATTCGTAGAGGAATTATCA
AAAAAAACTAGTAAGTCTGAAAAAAAAACCATATTTTATATTCTGAGGTCCCGGACGCGT
GGGTCGAAGCTTGACCT
Sequence 453
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGCAGGTACCCAACACAAACTA
TTCAATAAAGTAATCTGCTTTAAAAATAAAACACACTGAAAGGCCGAGGCAGGTGGATCA
CCTGACATCATTAGTTCAAGACCAGTGTGGCCAAACTGGTGAAAATTAGTCTCGACTAAA
AATCAACATTAGCTGGGCGTGGTGGCAGGCGCCTCTAATTCCAGCTACTCAGGAGGATGA
GGCAGGAGAATCACTTGAAGCAAGGAGGTGGAAGTTGCAGTGAGCTGAGATCGTGCCATT
GCACTGCAGCCTGGGCAACAGAGTGAGACTCCGTCTCAAAAACACCACCACCAACAAAAT
AAACACAACAGAATTATTCTGCAAATACAGATATTGGAGTAGCTGAGTTCCATCTCAAAT
TTGACTATGCAGGTTGACAGGTGATCTTGGCAAACTACTTATCCTTTCTGAAGTTCAACT
TTTTCACCAAATGGTATTGGGATACAACACTTGCTCTTGCCTATCTCACATGAATTATCC
ATTTTGGACAACTTGGTAAACTATA
Sequence 454
CCGCGGTGGCGGCCCGAGGTCCCAAAAGATATCACTGTGAAGGTTTGGATACACTGACTG
AGGAAAAAAGAAGGTCCTGAAAGCGTCTAGACAAAAAAAAGACTACTTGTAAGTTGCAAGA
ATCAGAATGGCATTGGACTTCTCAGCTTTCCTCATTAGAAGTTAAGATCTGAAGCAATCT
TTAAACTCGTGAGGAAAATTAAGTCTAATAAATAATTTTCTTCTTAGCCAAACAATCAAA
TGTGAAGCTAGAATAAGCATTTTCAGGTAAAAAAAAAAAAAAAAAAAGT
Sequence 455
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTACAGCATCCTGATAA
CAGCCTCTGCCCTGGGAAACAGACTGTGACCATGCATTTCTAGTCCAGCATATCCTATCA
GAAGACCAAATGGCTTCATCAAAAACAGAGTGACAACCTCTTCTCTTTGCCTCTTCTGTG
CTTGTTAACAGGCAGCATTGGGGCAGGAGAGCCTGCAGGCCTTTCACGGCTGCTTGAGTT
CTCACCTGTTTGTCTGAGCTCTGATTCCTCTGCCCTGTAAGCGTAAAGGAGATGTGCTGA
GTGGAAAGACCTCTAAACAGGCAGCCAGGAAGCCAGATTTCAGGTCCATCTCTGCCTCTA
ACTGGCAGCTTTGCCTTGGGTAAATCATCAAGTGGGCAATAGTTTCTCTCCTGTAAAAGG
AAAAGATTGGGTTTAAGATTGTTTCTGAAGTTCTCTCTAGATTTAACCTGGAAGGAGTTG
AAATTGCTAACC
Sequence 456
CCGCGGTGGCGGCCGCCCGGCAGGTACAACATTTTACATTTCCAGGGACTGCAAAAATGT
TAGTTCCTTCCCCCATCATTTAGTTTGAAAATTCTTAGATAATTCTTTGCTGGTAAATTC
CAACAGAATAGTTAGCACACAGGTTCCACACACACAAGTTCTAGATAGGAATCTGAAGCA
CCACAATGAAAAGAACATTTAACATCTTTTAAAAATGTTTAATGTTATCAGAAAGATGTT
TGGTATATGTGTTCCATGCATGCTCCTGCTGGTTCTATTTGAAAAAGAAGTTTTTACAGT
TATCTGTTGTCACCATATTGTAAACGGACGCGTGGGTCGAAGACCT
Sequence 457
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACAATAAATAGCA
TTCCCACGGTGACCACAAGTCTTGGAATCAGTTCCAGGTGTCGTCGTGGCCGTTGACACC
GCTGCCTTCTGACGGTAAATGTATTGTAGAATTCATGTTGTATCAGGCTTCAGTTTCCTC
ATTCTAAAATGAGAGGATTGGATAAGTTAGTAGTTTCTAATTTTTACTTTTAATCAGTGG

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CATCTCCCATTTATTTTTCATTTGAAATAAAACTTTTGAATTTTATCTTCTACCTAAATA
ACATATTTTGTTTTATGTTTCAAGATGAAGCTCACACTGAGTTGGAAAAAAGGAAAAAGC
AAAGGATCAAAGCTGGGGGAAAATACTGGACCATGTGCTTCACCTCATGGTGCCAAATAA
AGAGAAAATGGGGAGAAGATAGGGACAGATAAAGATCTATTTGCTCGGATTGNGCTCTCA
TCCTTGGCAACATGTTGACAATGCCCTGGAAATA
Sequence 458
CCGCGGTGGCGGCCCGAGAGCTCCAGGACGAAGGTATAAACACAGCAGAGGGCAGAGCCT
GATTTCAATCAGGGGCTACTCTAAGAAAGGCAGGAAACTAGATAAATACATTTAAAAGAA
ATTCCTCAGTGGCAGGGACAGTAGAGCAGCAGGGGGAGATCCCAGCACGGACAGGTAACA
GTGTGATGTGGCAGAAAGGCTTTGGTTGCAAGTGGAGAACAGATGTCTCTGGCTGCCTCT
GGCAGCTGCCTCCTTCTGGGCCTTGACTTTTCAAAGCCAGGCCAGGCCTCCCCCACCCTG
GACCACCTGTAGCTGGTTCAGAAGGCCCCAGGCTGGGCTTCATAGATGAAGACACAGCTG
ACTCAAGTCTCTGGCTCTGTCGGCTCTTGGCCACCTTGCCGCTCCCATAACGGTGTTTCT
CAGGTCAACCCCTCTTCTCCATTCCTACTTCAATGACCTCAGGTCAGGCCCTTGCCACTT
CTCTTCTGGACAAAGATGACAGCCCTTCACTGGTATCCTCGTCTNCAACCTAATTTATNC
TTCACAGTGCTGGCAGAAGTGACATCTTTTAAACACACAACGACCCCN
Sequence 459
GCGGCCGAGGTCCGCACTTTTTTTTTTTTTTTTTTATTTTTACTCCAGAATTTTCCTTTA
ATATTTAGGACTCCAATCTTTACTTACAAAATAGCTTTTATTTACGTGCACATGATCGTG
GTTTCAAAATTTTCTAAGCACTATGCTAAATTTGTCATCAAAACATAACAGATTCCCATC
TTACAAACATAGTTGCTAGTTGAATGAGTAAAAGAGATTTCAAATTTCAATTCAAGGAGG
CATGTCTAAAAGACCAGACCATTCATTTGATGAAATTGTAAATGCCGATCATCCAACTTA
ACAGGAACTGCACATTTGTTCCTTTCTAGTTAGAAAAAAATAA
Sequence 460
CCGCGGTGGCGGCCCGCCCGGGCAGGTCTTCGACCCACGCGTCCGTGATTGCCTATTGTT
TGTTGATTGACTGATTTATGCCTCTAAGAGGAACTATCTTTTGATAATATTAAATAAGAT
GTCCTAATACAAAACTGATAGAGTTCAGAAATAATAAGAATCTCCTGGCCAGGCGTGGTG
GCTCACGCCTTTAATCCCAGCACTTTGGAAGGCTGAGGTGGGCGGATCACGAGATCAGGA
GATTGAGACCATCCTGGCTAGCATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAAAA
TTAGCCCGGGTGTGATGGCGACCT
Sequence 461
CGCGGTGGCGGCCCGCCCGGGCAGGTACAGAAAGGACAAATACATCAGTAGAAAAGAAGA
CAATATAAGGGCAGATTGAAATATATACGTGAACGTCACAAAGACCAATTACTGCCATTT
CAATTCAATGAGGAAATAATGATGTATTTAATAAATAGTGCTAGAATGCTGCATTATCTG
TCTAGGATGAAAAAAAAAAAAAAAAAAAAGT
Sequence 462
CCGCGGTGGCGGCCCGAGGTGGAATGTCTGTTTTCACAAAATTTTGTATTTTCTCCTAAT
AGTATGAGGTNGAAGAAATCTACATCTTCTCAAGTGAGCTTATGATTAACTCGATGAGTT
TTCTTGCTATTCTCAAATCGGAATNTCCAGACCTGGCTAGAAACTAAAGTCTAAGCCCAT
TCATTAAAGTCTTGAATTTATTTACTTTNGCCAAGAACAGCTATATAAAATTAGATTCCT
CCTGGTATAAAATTGGGTGTTTTCTTAGATATTNGCTATCAAAAGTCATTTTTCTTGGAA
ATCGGACGCGTGGGTNGAAGCTTGTACACCTGCCCGGGCGGGCGGCCGCACTTTTTTTTT
TTTTTTTTTT
Sequence 463
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGAAAG
CATACAACTGAGGGTTCACGGATTTCTAAGAAATGCATTTCCCTTGTCTATGTTCATCAG
CCTTTAATACTTTGGCTACAAGGCATATCAGAGAAAGGGAGGTTAAATTGGGTAATGACA
AAAGAACATATGTAACTCTGGAAATAGGAAAAATGTTCCAGAAATGGGATCAATGTGCCA
GCAATAAGCATAGTTCATTTCATTTGAAAATTCAGTTAAAGAGCCCAATAAACAGTTCCA
AACCGGACGCGTGGGTCGAAGACCT
Sequence 464

TABLE 1

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ACTATNGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTCGACTCAAGCTTTCAG
ATATAGGGCATTCCAGAATCTTCTCTTTACGAGTTCACCTGCTAGTATAATCTCCACAAC
TTGAATGGCATTGGTTGTTCTGTAATTCCTGCCAAAAGCATCACAAGTTGTACCTGCCCG

Sequence 465
CCGCGGTGGCGGCCGAGGTAATAGCTAATGCATGCAGGGCTTAATACCGAGGTGATGGGA
TACTTCATGCTAACTGGGTGTTCCTTAGTGTAATAATTGACTGCCTGCTCCCATGTGGCC
TCACAGAGTCATAGCTTCTTGCCCCAAATGTTTTTCTGGTTTTCTGTGGAGCCATACAGA
ACCATAAAGAGAAGTTGTTGAGAAACCGGTTTGACTTTCAAGTCTGATGAGGAGCCTGGT
TTCCATGAGATTTTCAGCTAAGTTAGCATATTTTTAAAAATTTCAAAATGAACAGAGGAA
AGGTTGACGATCTTTAGAGCCTTCTGCCAGGCTGAAGTGTTCTGCATCTTCCCTAGACCC
GGTACCTGCCCG
Sequence 466
CCGCGGTGGCGGCCGCCCGGNCAGGTTACAAGCTTCGACCCACGCGTCCGGGAAATTTTA
ATTAAAAATAGGTGAACATTTTAAATGACCTAATACATATTTAGTCCACATTGAAACTTT
GGCATTTTGTCATTGCCATTAAAATTTTGATGGCATTAAAATTTGATGCCATTAAAATTT
TGAT
Sequence 467
CCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACCCACGCGTCCGTGATAACTTCTC
CTAAGTGCCAGGCATTGTATTACATGCTGGGAGCACAAAGATGAATAATAACAATAGGTT
CACAGAAAAGATGAATTGATTGAGAGAAAAAGAACCCTCCAGGAGCCCTCAGCGTAGTAG
GGGGTTGGTGTTGGAGGGTTGGAGGAATGGAAAAGGCCCTGAAATGCAGGCAGAGAAATG
ATGAAACAATTCAGGGGCTGTGGTGAGGTTAAATGAATATCTTTACAGCAGCCTCGAAGA
CTGATCAGGTTACTATACCCTCTCTTCTGTCCACGTGCATTTC
Sequence 468
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCACAACATTCCCCCTT
CCCCAAACAGTAATATGGACACTGATTTAACAAGACTTATAAAAAAATAAGGCACATTTA
TTTTGATATGGTAATTTTAAAATAGAAACCCCTTCTCAGAACACCTGTATTCAAATGAGC
TGTGTAAAAAGACACCTTGTGGTACCTAAAATAGGTTTATGGTACCTATGGAATTGCTTC
TATTTTAGTGAAGATGGAATAAATTGCACCCATCCCACATTGTCAAGTAATGAAAATATG
CGGACGCGTGGGTCGAAGCTTGACCTGCCCG
Sequence 469
GACCTCTTTAAGTGAAACTTAGTATGCTAATAGTATGATACGCCCTTTTGCTGTAGCAGT
TACCATAGTTACAGATAAGTATATATTGTTGTGATGATCTGATTTCCTGGTTCCCCCACC
CCTGCAAAACAACAACAAAAACCTTTACCAGGCTCTATAACAGGGGGACCAAACTTGTTT
TTGCTCATCATTGCCGGACGGTGGGTCGAAGCTTGACCTGCCCG
Sequence 470
GCTCCCCGCGGTGGCGGCCGCCCGGGCANGGTTACAAGCTTCGACCCACGCGTCCGGGAA
ATTTTAATTAAAAATAGGTGAACATTTTAAATGACCTAATACATATTTAGTCCACATTGA
AACTTTGGCATTTTGTCATTGCCATTAAAATTTTGATGGCATTAAAATTTGATGCCATTA
AAATTTTGAT
Sequence 471
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACCCACGCGT
CCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGCTGGGAGCACAAAGATGAA
TAATAACAATAGGTTCACAGAAAAGATGAATTGATTGAGAGAAAAAGAACCCTCCAGGAG
CCCTCAGCGTAGTAGGGGGTTGGTGTTGGAGGGTNGGAGGAATGGANAAAGGCCCTGAAA
TGCAGGCAGAGAAATGATGAAACAATTCAGGGGCTGTGGTGAGGTTAAATGAATATCTT
Sequence 472
ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGCTTCGACCCACGCGTCCG
GAGCGTTGCTTGGATTTCTAATTACTTCTAAGNGTAGTTTTATTTAATTTCAGTCCTTTA
GAAAAAANAAAATAAAANNAAATGTGCGGGCCCGGCCTGCCCGGGCAGGTNCCACNCGTT

TABLE 1

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CGAAAAAAGAAAGAAAAAAAAAAAACTTTCTCTTTGCCANTTCTTCTTCTTCTTTNTT

Sequence 473

CTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTT
TCCTTTTGAGACACAGTCTCACTCTTGCCCAGGTTGGTCTAAAACTCCTGGGCTCAAGCA
ATCCTCCCGCTTTCAGCCTCCCAAAGTGCTGGGGTTACAGCCGTGTGCCACTGTGTCTGG
CCCTTTTCTTTTTCATAGGAGAAGGGTTGTTGACTCCCAGGAAACGTCACCTGGAACCAA
GAATGTGAACTCAAGGACCCCCGCCTGTTGGCAGCTGCATTTACTTGACTCCTGTTCACT
GTTTCTTAGCCTTGTCCTTTCTCTCCTGCCAGTTCTAGGGGACACTGCTTCTCCTGGTTG
ACCTCATCAATGCCCAACC

Sequence 474

CCGCGGTGGCGGCCGCCCGGGCAGGTACACAAACCAGATGTATGCAATGATGCCAAAAGT
CATCTCAAAATTCCAAGCTGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCT
TGAAGATTTACTTTGTATACTTCAAAAGATCTGGTCATGAAATTTTTAGCTAATACATAA
AGTGCCGAATTGAAATCCAGAATACAATAGCTATGAAGGGCCGCTAGAGTGCAGATAACC
AACCCATTCTACCTAACTCAGGTTGAGATTGCTTTAGAACCTATCATTGGCTTTAAAATG
GTCCACAAAAAAACACCTCATGGTCACACTTAAAATAGTTTGCATCCCACACTACAGGCT
TCTCTGGAGGATTTAATACTTTGGAAGTAGCATCATAAG

Sequence 475

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGACCNGTGCAAATATCTACCCA
GTTAGAAGAGTAAATACCATCTTAGTGTTATTATCAAAATATTCTGAACTCATGAACCTC
CTCAGACTGTTGCTGGGACTCCCAGATATCAATACTCTGAGAACCACTGATCTAATGTTT
CTTTAGTCAGTTTCTATTTGTTCTCTAGTATAACCAAGCATAAAAGTAATATACTTCCGC
CTCTCTCTCCCCCAACTGACTTTAGTCAATAGTACCT

Sequence 476

TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAACGCTTCGACCCACGCGTCC
GGTTTGGGTGGAATTATAATATTTTAGATAAGATTTAAGAGGATTGCTAGATNGGAATGC
GAATGATGATAAGGCTTTTAGAGTTAGATAAGAGAGAGGGCGCTCTAGAACTAGTGGNTC

Sequence 477

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCACAACATTCCCCCTTCCC
CAAACAGTAATATGGACACTGATTTAACAAGACTTATAAAAAAATAAGGCACATTTATTT
TGATATGGTAATTTTAAAATAGAAACCCCTTCTCAGAACACCTGTATTCAAATGAGCTGT
GTAAAAAGACACCTTGTGGTACCTAAAATAGGTTTATGGTACCTATGGAATTGCTTCTAT
TTTAGTGAAGATGGAATAAATTGCACCCATCCCACATTGTCAAGTAATGAAAATATGCGG
ACGCGTGGGTCGAAGCTTGACCTGCCCG

Sequence 478

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTATACTAGAA
GATGCTCCAAGGTTTCAGAAAGGAATTAATTACTTTCAATTTGCACAATTTAGAACAAAT
ATCTGGCTTTTCCCTAAGCTTAATGATTTTCCATTTCACACAACTAAAATATAATAGCAT
TATTTTATAATCAAGTTTAACTGATGGTCTATGATAGTAGAGCGATTTAGTATTTTGACA
AAAATCTTATGAGACATGAAGTCATTCAATTTGCCGGACGCGTGGGTCGACTCAAGCTAG
ACCTN

Sequence 479

TTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCTTT
CTTTTGTTGTTAAGGGCCCATGACCTGCAGTTTCCCTAACATTCATTTTTATACAGGGCA
GAGGTATGTGTGCGAGCTCAGATACCTTAAATTCATATGCCTTTAATACAATCCAGGCAG
ATTTCTAAATGAGGGATGCTTCCCCACAAATGGAGAGTGAAAGTGGGCCAGCCTAAAAGG
ACCTCCATAGCACTGTGCATGGCCAGCTGTTTGTGGCTGTACCTGCCCG

Sequence 480

ACTACTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTC
CGCTTTCTTTTGTTGTTAAGGGCCCATGACCTGCAGTTTCCCTAACATTCATTTTTATAC

TABLE 1
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AGGGCAGAGGTATGTGTGCGAGCTCAGATACCTTAAATTCATATGCCTTTAATACAATCC
AGGCAGATTTCTAAATGAGGGATGCTTCCCCACAAATGGAGAGTGAAAGTGGGCCAGCCT
AAAAGGACCTCCATAGCACTGTGCATGGCCAGCTGTTTGTGGCTGTACC
Sequence 481
GACCTCTTTAAGTGAAACTTAGTATGCTAATAGTATGATACGCCCTTTTGCTGTAGCAGT
TACCATAGTTACAGATAAGTATATATTGTTGTGATGATCTGATTTCCTGGTTCCCCCACC
CCTGCAAAACAACAACAAAAACCTTTACCAGGCTCTATAACAGGGGGACCAAACTTGTTT
TTGCTCATCATTGCCGGACGGTGGGTCGAAGCTTGACCTGCCCG
Sequence 482
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATTGACTAAAGT
CAGTTGGGGGAGAGAGAGGCGGAAGTATATTACTTTTATGCTTGGTTATACTAGAGAACA
AATAGAAACTGACTAAAGAAACATTAGATCAGTGGTTCTCAGAGTATTGATATCTGGGAG
TCCCAGCAACAGTCTGAGGAGGTTCATGAGTTCAGAATATTTTGATAATAACACTAAGAT
GGTATTTACTCTTCTAACTGGGTAGATATTTGCACTGGT
Sequence 483
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGA
CCCACGCGTCCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGCTGGGAGCAC
AAAGATGAATAATAACAATAGGTTCACAGAAAAGATGAATTGATTGAGAGAAAAAGAACC
CTCCAGGAGCCCTCAGCGTAGTAGGGGGTTGGTGTTGGAGGGTGGAGGAATGGAAAAGGC
CCTGAAATGCANGCAGAGAAATGATGAAACAATTCAGGGGCTGTGGTGAGGTTAAATGAA
TATCTTTACAGCAGCCTCGAAGACTGATCAGGTTACTATACCCTCTNTTCTGTCCACGTG
CATTTNAAAAACNTTGGCCGNTCTAGAACTAGTG
Sequence 484
CCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGATGGTTTTTGCAAAAATTGAAAA
TGCATCGATATTACAGTTAATTTTTTCAGTGTGTATGTGGTATTAGGCTTAGAACTATAA
CACAGGAAGTTTTTAGAGTATGTCCACTCTGGTTTACTCCTTTGTAAGTATTAATACCTG
ATAATTTACATCCTACAGCCCTGCCTTTTTTTTTTTTTTCAAGTTTGTCCCAGCAAGTCTT
GGCCCTTTGCATTTTCTTAATACATTTTAGTACCTGCCCG
Sequence 485
CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTACCTGAAAATGCTTATTCTAGCTT
CACATTTGATTGTTTGGCTAAGAAGAAAATTATTTATTAGACTTAATTTTCCTCACGAGT
TTAAAGATTGCTTCAGATCTTAAACTTCTAATGAGGAAAGCTGAGAAGTCCAATGCCATT
CTGATTCTTGCAACTTACAAGTAGTCTTTTTTTGTCTAGACGCTTTCAGGACCTTCTTTT
TTCCTCAGTCAGTGTATCCAAACCTTCACAGTGATATCTTTTGGGTACCT
Sequence 486
ACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTGGAGGCCCAAG
TGCTGAGACTCAGGGGACGCAGGCCTGAGGACAGTTATGCAGGGTGCAGCGGCCTACGGT
AACCCATGTAGCAACAGAAACCCTTAGCTAACTGCCGTAATTTAAGGCAATTAGGAGCCA
TTCATCATCCAGATGGCTATTGGCTCTAATCGTTACTGGCTGAAGGAACTATATATAGCA
GCTACCTTTCCGCTCCATTCCCAGGCCTTGTTCCTGTCTTCTGGTTGCCAGTTCTGCACT
CACTCATTCCGGACGCGTGGGTCGAAGACCT
Sequence 487
CTATNGGGCGAATTNTTNCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACGCGTCCGA
TCACTTTTTTCATTNATACCTTATTAGATAAAACATTAGCCCCCTAGAGTGTTTTGTGAA
GGAAATATGCCTAATAAGAGATGATAGTTTTAGCAATAAATGAGCATTAGAACTATTATT
TATTAATGAAATGAACTGGTGGTCTGAAAGTGATGATAAACAGACAACTGTGGAAAATGA
ATTATTAAAATTCCATGGAATTCCTTTTGAAGTTTATGAAGT
Sequence 488
CCGGGCAGGTACAAATCAAGTCATTAACATTTTCAATGTCAAAAATACAGCACGCTGTTA
AGAGTTCTGTCAGTGCTCATTATCCCACTAGATCCCACAAAGGGCAAACTCAAAAGATGA
AACAAAGGCAACGCCATCAATAACCACCATATTCCACAGGCTTTCTCCCCTAGGACGTAC

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CTN
Sequence 489
CCGCGGTGGCGGCCGCCCGGGCAGGTGGAAAGGTGGGTGGGGAGAGGGAGGCTTATTTGT
TGCTGCAGTGTAACTAAGTGAAACCTAATTCATATGACTCAAACTAAGGTATATTTGGTT
AGATCTAGGTGAGTTCTACTTTAGAGGAAATCCTGGTAACTGTTGTTTGTTTGTAAGTTA
TAGCTGTAATTAATTTTCCCTGTATTCAAAGCCCCCAAACCCTGCATTCAGATACTATGC
ATTTAGACTTCCTTAGGCAAAGTCAAGGCAACAAGCTGATGATTCTAAAGCTATTNTTCA
AGGGAGNTNTTTACCCATCATAAAGGNGGTTTTTAGTCATTATAGATAATATTCAATCAA
TTANTACCGGGGGATGGCAAAAA
Sequence 490
CCGCGGTGGCGGCCGAGGTGTAATTTGGAGAATATTTAAAGCAAAAGAGCAAACAACAAA
AACTAAGTTAACACTTACCCAGTGCAGTAAGGGAATTGTAAGATACAGCCTGCTTAAGGA
GGTCTGCAGACAGATGCACCTAAGATTTCAGCTGTTTTAGGTCACTTTTCTCAAAATATT
TATTATCTGGCAATGGGGATGGGAGTGGGGAACACCTNTCTGTGAGGCAAATGGTATCTC
AACAAATACCGACTTTTCAAGGAAGAAAGCTCTCCACTTCTCTCATAAACTTATATACTA
CCTTAAACAGTATGCAGTATTCGCGGACGCGTGGGTCGAAGCTTGACCTGCCCGGGCGGC
CCGCTCTAGAACTAGGTG
Sequence 491
CCGGGCAGGTACAGCCTCACATACACAGATGCAGGTGAAGTCACCAAAGCTGATCTCTCA
TTCGTTCTGGGGACAGTTAGCAGCGTAGTGGTCCCACTGCAGCAAAAGTTTGAAATTCAT
TTTCTTCAGGAAAATACCCAGCCAGTCCCTCTCAGTGGAAACCCTGGTTATGTCGTGGGG
CTCCCATTAGCTGCTGGATTCCAGCCTCATAAGGGTGGAGCTCTCCCGTGTCAGCTCGTA
GCACAGAAGGTGAAGAGCCTGCTGTGGGGCCAGTGCTTCCCAGATTACGTGGCCCCTTTT
GGAAATTCCCAGGCCCAGGGACATGCTGGACTGGGTGCCCATCCACTTNATCACCCAGTC
ATTCAACAGGGA
Sequence 492
CCGCGGTGGCGGCCGAGGTACTATTGACTAAAGTCAGNTGGGGGAGAGAGAGGCGGAAGT
ATATTACTTTTATGCTTGGTTATACTAGAGAACAAATAGAAACTGACTAAAGAAACATTA
NATCAGTGGNTCTCAGAGTATTGATATCTGGGAGTCCCAGCAACAGTCTGAGGAGGTTCA
TGAGTTCAGAATATTTTGATAATAACACTAANATGGTATTTACTCTTCTAACTGGGTAGA
TATTTGCACTGGT
Sequence 493
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTTAAAGGAATAATCTGCAGA
ACATCTTGATTTACAAGGGACAAAATGATGCAAATTATATGCTGTCCAACCTACTGGTGA
ACTGGATCAGAATGGTCCAAGGACTGTTAAACAGAGGAAGTATTTACATTTTGAAAACTT
GCGGACGCGTGGGTCGAAGCTTGTACACCT
Sequence 494
CCGCGGTGGCGGCCGTTAAAGGAATAATCTGCAGAACATCTTGATTTACAAGGGACAAAA
TGATGCAAATTATATGCTGTCCAACCTACTGGTGAACTGGATCAGAATGGTCCAAGGACT
GTTAAACAGAGGAAGTATTTACATTTTGAAAACTTGCGGACGCGTGGGTCGAAGCTTGTA
CACCT
Sequence 495
CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCTAAAA
CTTAAAGTATAATAAAAAAAAGATTATTTCCTATACTTCAAAATCAACAAGATTTGATTG
CATTTAAATTTTTCTGTCCATTTGTTCTTCTATGTAATACTTTAAAAATAATTGGCATAA
AAATTCAATCAATTCATAAAAGTCCAAAGCAAAAAAAACAAATCTACTGACATNTCTTGA
GGAAGAAATGATCAGGATTGACATTAATGAACCCTCTCACAGAGACCACTACACACACAC
ACAAAAAGAAGGATGGGTGAATGGATGCAGAGAGAATTTAATAAGACTGAAATGATGCCA
TACATGCTTTTAAAAAATAAAAAGTATTAAATTTTAAATTTTACTTCAATATAAGAGAAA
AAAAAAAA
Sequence 496

TABLE 1

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CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCTTCGA
CCCACGCGTCCGTAGTAATAGGGAATTAACTGACCCCTTTTGGATGGGGGAGAGCATCAG
GCTGGGGTCAGGTAAGTGTAAATGGCCTTCTGAGCATGCTCTTCTAGGCTGACTCCCAGC
CCTGACTTGAAACCATTAGCGCTAACTTGCTCTGTTTTGAGAAAAACTTTCCAAACTTTT
GCATGAGAAACTAGAAAAAGGAATGTATGCCACGTAACTGGATTACAGAAATGAGTTAAT
TGTCTCTGTGATAAAAAAAAAATGAAATATTTTCTTATTGAATTAATATTTTTGTCTTGA
AGCATTTTCTAGTGATAGAATGTATTTGTCTTTTTTCCTGGGGGGGNACCTCGGCCGCTCT
AGAACTAGTG

Sequence 497

CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCCCAGGTC
AGCACTTTGAACACTTGAACATCTATGAAATCACATAGTAAAGTGATAGGAGATGGGGCT
AAGCTTTTAATGGCCTTTAGACATAGCATTAGACATAACCTAAGCTGAAAGGCTTTGGGA
AGTTGTTGTGTTAAATCCCCAACACACTCTCGTGTTTTCTTAGGACTTGCCTNTTATTTA
AAAAAAAAAAAAAAAAGTTGCGGCCCGCTCTAGAACTAGTTGGATCCCCCGGGCTTGCAG
GN

Sequence 498

CCGCGGTGGCGGCCGAGGTACCCTTTTATAAGGGTGTATCCCCTTTTGGTAACTTACTGT
TTGTTAATTTGTAGTGTTCCCTGCCAGTAAGCTTGTAACACTCTAGTGACTCACCTTCGG
GTGGGAGGGTAGGAAAGGGAGAGGCCTGCCTCCTAAACCTGGGAAGATGGGGAGAGAGTG
GTAAACCTGAGAGCCCAAAAAACAAACCAAAACAAAAAAAAAAAAAAAAAAAAAGT

Sequence 499

AGGTACCCAAAAGATATCACTGTGAAGGTTTGGATACACTGACTGAGGAAAAAAGAAGGT
CCTGAAAGCGTCTAGACAAAAAAAGACTACTTGTAAGTTGCAAGAATCAGAATGGCATTG
GACTTCTCAGCTTTCCTCATTAGAAGTTTAAGATCTGAAGCAATCTTTAAACTCGTGAGG
AAAATTAAGTCTAATAAATAATTTTCTTCTTAGCCAAACAATCAAATGTGAAGCTAGAAT
AAGCATTTTCAGGTAAAAAAAAAAAAAAAAAAGT

Sequence 500

CCGCGGTGGCGGCCGAGGTACTATTGACTAAAGTCAGTTGGGGGAGAGAGAGGCGGAAGT
ATATTACTTTTATGCTTGGTTATACTAGAGAACAAATAGAAACTGACTAAAGAAACATTA
GATCAGTGGTTCTCAGAGTATTGATATCTGGGAGTCCCAGCAACAGTCTGAGGAGGTTCA
TGAGTTCAGAATATTTTGATAATAACACTAAGATGGTATTTACTCTTCTAACTGGGTAGA
TATTTGCACTGGT

Sequence 501

CCGCGGTGGCGGCCGCCCGGGCAGGTCAGGAGTGTCCCAAAGATTTCCCAAGTCCAGCCC
AGAGAAGCTGAAAGCCTTTCCCCCAGGTGTGGGGCTGAGTTAGATGTGGGTCATAAAGGA
TGTGGCCTCGAGGCTGGGAGGCAGCTGGGCAAAGTGGGAAGCCTCCCTACTCCTGAGACA
GTGATGGCTCAAATCCAGGCCAACCTGGAACATGATCCTCAACTTCTCTAAGTTCACCTT
TCCCAGGTGTGAAATGGGTTGTTCTGGGAATTGAGTGAGCTAATGATACACTCCCTGGCA
CACAGCGAGCCTNAAAACGCTTGTGTCCCCTCCCTACCTCACAGCCCATTTTAGAAGTTT
GCTGTCACTTA

Sequence 502

GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTTTCTTA
TGAGTGGGAGGTGACTGATCGTGGAGGTGGATTTCTTATGAGTGGGAGGTGACTGATCGT
GGAGGTGGATTTCTTATGAGTGGGAGGTGACTGATCGTGGAGGTGGATTTCTTATGATTG
GCTTATCACCATCCCTCCTTGGTGCTGTTTTTGCAACAGTGAGTGATTTCTTGTGAGATC
CGGTTGTTTAAATCCANAGGCACCTNCCCCTACCCTCTAGCTCCCATTCCTGCCATGTAA
GACACCTGCTCCCCCTTTTTCTTACCCCATGATTGGAAGCTTTTTTGAGGCCTCCCCAGA
AGCTGATGCCAGCCCTATGCTTCCTGCACAGCCTG

Sequence 503

CTACTATAGGGCGATTGGAGCTCNCCGCGGTGGCGGCCGAGGTTTTTGAAATGCACGTGG
ACACGAAGAGAGGGTATAGTAACCTGATCAGTCTTCGAGGCTGCTGTAAAGATATTCATT

TABLE 1
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TAACCTCACCACAGCCCCTGAATTGTTTCATCATTTCTCTGCCTGCATTTCAGGGCCTTT
TCCATTCCTCCACCCTCCAACACCAACCCCCTACTACGCTGAGGGCTCCTGGAGGGTTCT
TTTTCTCTCAATCAATTCATCTTTTCTGTGAACCTATTGTTATTATTCATCTTTGTGCTC
CCAGCATGTAATACAATGCCTGGCACTTAGGAGAAGTTATCACGGACGCGTGGGTCGAAG
CTTGACCTGCCCGGGCGGC

Sequence 504
CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGCTTCGACCCACGCGTC
CGAAATTCTTGGTTAAGGATTATTATAAAATAGAATGGTATTTCAGTAAATCCCTGAGGC
TTAGGAGTCCAGGTACAATGTTGGTTCTCAATTAAAATATAAATCATGTCTAGGGACACT
TAGGAACACAGAACATATATTTAGAGCTAGAAAATATACAGCTTCAGACCAGGCAAAGTG
CTGGGATTACAGGCGTGAGCCACCACGCTCGTCCTCACATGGGGTTTTATTATTAGGATG
GTAAGAGTATTATAAGGGATTNGGTACAAGGCATAATGAGTCCTTTTGCTTTTTAGGCTT
TTGACTTNTGGTTTTAAGACTTTTNTTTAGCTTTTTGTTNGTTAGACANCCATTTGGGCA
AGGCTTNGGTTTTTTAATAAAGTTTGCTTGGGATNAAACNTGACCTTAATGGAAATTGTC
CCCTNCCCCCAAAA

Sequence 505
CCGCGGTGGCGGCCGCCCGGGCAGGTACTACTGATACAAATAGCATGGATGAAACTCAAA
ATCATTATTCTAAGAGCCAGATACTATAGCCTGTATTTTATGATTCACTTTCAATGAAAT
TCTACAATAGACAGAACTATCTATCAACAGAAAGCAGATCAGTGGTTTTCTGCAGCCAGA
GGTATGAAAGGTTTGAAACATGTGGCACCAGTAGGACATATGGAAACTTTTTTGGTGTGA
TGGAAGTATTTTTTTTATCTTGATTGTGTGGTGTTTGTTATACAGTGGTATACATTTGACC
T

Sequence 506
GGGGCGGCCGCCCGTTCAGGTACACGTNTTTNCCAACCAATTTTATANGNATATATATAT
TCTACTTCCAACACCCNTNTTCATCCTGGTNCAATCAAAGCCTGGTTNTGGCCAACAANA
AACTCGTCAGGAGATCGAAGGNTGTAGATGTCTGCACGTGGCTTCCTTGGAGGTCCAGNG
GNGACTCCCTCTTCCAAAATCCATTCTGTACCCGCTGGCTGCTCTAACGGGCAGGACAAC
AGCGTATGAAGCCTGACTGCAACTAGGAGAAGTACCACACTCCCGGACGCGTGGGTCGAA
GCTTGTACACCT

Sequence 507
GGCCGAGGNCAAGCTTTTACCCACGCGTTTGAANCCATCTGTTTGGNACCCNGAAAGGGG
GCAGGAAAGGCTGGGGTCCCAGNCCACCCTAAGGGNATCTGAGTGGCCCAGGGCTNCAAG
NNNNCCCACCTGNCCAATGGGACCCTTTCTGNCCTCACCCTACAAGGGGCACAAAGGGAA
GACACCAAACCTGGCAGGAACTTTTCACGCAATCAAGGGAAGGAAAGGCANTCCTGGCAG
AGGGAACAGCANGCCAAGCGGGAGAAGGCTCAAAGTAAGGAGGGTAAG

Sequence 508
CCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGCTTTTCAATTTTATTGTAT
AGTTTTTGATAATGTTAATGTCTGAGATCTTTATGGGTGAGTCTGCTGTCATTTCTGCTA
TTTCTCGTAGTGATTTGCTTGTATGGTTTATGATTTTTTAAAAACTGAATGTGTATTAGA
ATTGTGTCTGGTAATTCTTTAGGGACCCATTGTAGATGTATTTCTTCAAAGAGCATTTGT
GGTTATTATATTTGGGTGCTTGGGGCACTGCCAGTACCTGCCCG

Sequence 509
CCGCGGTGGCGGCCGAGGTATTGAACCAGGTCAAAACATTGTTGAATATCAAACCCAATC
TATTTAATCTGTAAGAAACAAGGACCCTGAGAAAGATTCTGACCAAGGGTATGTGATCGG
AAACTTGACAGATAAATGTAGTATACTTGTAAAGCCATACTGTGAAAAACTTGGGGATTA
TTTGAACACAAATTATCACCTGGAAAAAGACAGAAAACAAGGCAGAAGACTGTGCAAAGA
GGTTGGAATATTCAAAACTTCAGATTAGAAG

Sequence 510
CCGCGGTGGCGGCCGAGGTACCCAANNGATATCACTGTGAAGGTTTGGATACACTGACTG
AGGAAAAAAGAAGGTCCTGAAAGCGTCTAGACAAAAAAAGACTACTTGTAAGTTGCAAGA
ATCAGAATGGCATTGGACTTCTCAGCTTTCCTCATTAGAAGTTTAAGATCTGAAGCAATC

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TTTAAACTCGTGAGGAAAATTAAGTCTAATAAATAATTTTCTTCTTAGCCAAACAATCAA
ATGTGAAGCTAGAATAAGCATTTTCAGGTAAAAAAAAAAAAAAAAAAGT
Sequence 511
CCGCGGTGGCGGCCGCGACCACGCTTGGCCGCCCGGGCAGGTCAAGCTTCGACCCACGCG
TCCGAAATTAATGAAATGTTTTACATTCTTTTAAAAACCTTTGAAATATGGTGTGTATTT
TATGCTTTAGCAAATCTCAGTTTGGACCATTTCAGGTGGTCAGCAATTACACATGGCTAG
AACTAAGAGCAATCAGTTTTNTTCCACAGTTTTTCTAAAATTTTCTTGTCAAAAATCTTG
ATGGTATGAATTACTCTTTTAAAAAGTGCACTTNACCAGCAACAGAAAANAACCCTGGAG
GGGTATGGGTTTTAAAGCTGGTACCTNGGCCCGNTCTAGAACTAGGTG
Sequence 512
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTCCCAAAGTGCTGGAATCA
CAGGAATGAGCCACCACACCCAGCCAAATTGGGCACAAATTTAAAATTTGACTTTTATTA
ATGATATGGTAAAGAGATCTAGCTTGGTCATGACACCCTTGTGTTATACGGTGACAGGCA
AATCATTTAAAAATATCTAAACTATAATTTCCTGTAGTTCACATGAATTGGATATTCTGA
AGCGGACGCGTGGGTCGACTTGTAACCTGCCCGGGCGGCN
Sequence 513
CCGCGGTGGCGGCCGCCCGGGCAGGTACAGAAAGGACAAATACATCAGTAGAAAAGAAGA
CAATATAAGGGCAGATTGAAATATATACGTGAACGTCACAAAGACCAATTACTGCCATTT
CAATTCAATGAGGAAATAATGATGTATTTAATAAATAGTGCTAGAATGCTGCATTATCTG
TCTAGGATGAAAAAAAAAAAAAAAAAAAAGT
Sequence 514
CACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTCACTATAGGGATCT
AGATCACGAGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTTTATTTCTGCCACCTCTTTC
ACTTGGGAATCTATTTTCACTGCTCTCCAAAGTTTTGAGAAGGCAATAGTCCTGGAAAAT
GGGTCCTGAGCTCCTCTCAGCAGTCCTGCTTTCTTTCCACCTGCACTGTAAGGNGACCCT
AACTGGGTCTAAGACAAAAAGTCGGACGCGTGGGTCGAAGCTTGTACACCTT
Sequence 515
CACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTTAGTTACCACTTCA
TTACTGGAGGGCACTGTCACAAACTTCTGACTATCCAGACTTGAAGCTGGAAGCAAATAC
AAGTCTGAGGGGCTCTAAGCTGGGAGGTTCTGGCCTCTCCCTAGCTCTCTATGGCTCTAC
CTCTCTGCTTGAAGCTCCCTGCACTGCACTCCCATTACTCTGACTGGGGATAGGACCACT
GCTGACAGGGCCCCACCTCAACTTCTTTCATTGCCCTCTTCCAGGAAATCCCACCCTGGG
ATACTTCAAAGACCTCATATGCTACAAAGATCAAGGCCACCTAATGAGTGCTCTAGAGAT
CAGCACCAAAGATGCTTGCCAGAGTCTTCTCTA
Sequence 516
ACACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCAC
GCGTCCGGGGAACCCTTGTTCAGGTTCTTTTTAGGCAACCCAAGCCAAGACAACAAAGTA
AGATAGAGCCCCAAATGTGGTCGTATAAGGTTTTTCAAAGAAAGTAACACTTGAGTTAGG
TCTTAAAGTTTNACCTAAGAAACTGCCCAGGTGGACAAGAAGAAAGGGTGTTCCAAGTAG
AAATAATANCATGGACAAAGGCAATGTAGCAGGAAAAGTNTTCGTAAATTCAGGGAATTT
CAAGTGTTTCACGATGGAAGGAGCAATAGAGTCATTTACTTGCGGTGGCAGGGGATGTTG
GAAATGTAAACAAGAGTGAGATACAGAAGATTTTATGTGGCATGCCAACTGGGACTTTTT
TTTGTAAACAA
Sequence 517
TCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGAGAAATACCATTTGCACA
GTCAATCACTTCTGACCAAGCTTATCAGAAAAAGGAGAAAAGAATGTCTCCCCACTAAAT
GTTCTAGGGNGGGNGAGGAAANCTAGGGTGGNTATCTAAATCAACAAATATTCTAGATAT
TCCAATATCTAAATTATTGTTGGAAATACTCNTCCTGAAGNGNTCATTTGAACNCTAAAG
CAGGAGNACAGCNTTTGTTGTATCAANATGGGCAGGGGTTTTTAAAGGGTNTCCATTTTT
TNTTANTTTCCNCATTATTAAATTCCNTTNTAAATNNTTTTTAGGACCAAAAATTTTTCC
CNTTTCTTNGAGGTNTTTAAAGGGGGATTTAANAAAATGGGNNANNTGGGGGGTTT

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Sequence 518
CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGGTAGAGAAAGATTCAA
AATGCTGCTGTTCTACCTGAGATGGGAAAAATGAAAGCAAAATAACATCAACAAAAACAA
ACAAACAGCCTTGTAGTTCCATGTCACTAGCCAGGGATTTAAGACCAGCCTAGAGAACAT
GGTGAGACCCCTTCTCTACAAAAATAAAAATAAAAATACAAAATAAGCTGGACATGGTGG
TGTGTACCTGCCCG
Sequence 519
ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATGCTTCGACCCACGCGTCCGCTCACT
TCATCCTCCCAGCAACCTATTATGATCCATTGCCACACCAACTTGCTGATGAGGAAAGTG
GGGCTTAAGGAAATTAAAGAGCTGTTGTGGGACTTCCAAAGCAGAAGACAGTAGGCTTTC
AGAAATTTGATAAAAATAGCACTTTGCATTTNTTGAATCTTGAGCTAAATGGAAATTAAT
ACTAAACATTCTNCACTGGTAAAATAGAGAATAAGGATATTAACAGTAAAAGAAAAGAAG
AAGAAAAGGAAATGTGCTTCCACAGATTTAGAAACATAAGTAACAATCTAAGGTTAAGGC
TTTTGGCACCTGCCCGGGCGGCCCGCTCTAGAACTAGTGGGAT
Sequence 520
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCTTCGACC
CACGCGTCCGAGCTATGGACCTAAGGCAGCGAGTGGATTCATTAGTCCTCTTTCAGCTGA
ATGCATGCTACAGTATAAGAAAAAAGCTGCTGCCTATATGAAGTCTTTGAGAAAGGTTTG
TTAGCTGCTGTTAATATTTAAATCAGAGGAAACATCAGGAGTCATTCTAGAGAATGGCAA
GAGTTTTTCTGCAGTTTATATTGTTGACTTTTTATACGATATTGGGGTACCTCGGCCGCT
CTAGAACTAGT
Sequence 521
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTCGACCCACGCGTCCGC
TAGGAACTATGTTAAAAAAAATTCAAGAAAGAATTTAAGGGAGATTACAGTGTTACTGTG
ACACCAGGAAAACTTAGAACTTTGTGTGAAATAAGACTGGCCAGCATTAGAGGTGGGTTG
GCCATCAGAAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATGACACAAGGTAACCCG
TAAGCCAAGGCACCCAGACCAGTTTCCATACATAGAACCTGCCCG
Sequence 522
CGACTACTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTT
TTTTAAGTAAAGAAGGTTTTATAATATAGTGAAAACAATACGGAGATGAAAACCAGGAGA
CCTGGGTCCCGCCTTTGTTACAAATGCCTTTCCTAAAAGCTCCAGAATGGTGCGAGGTCA
AAACAGATGGGCAGAAAGGAAGTGGTCATCAGAGCAAGAGAAAGAGCAGGTGCCAGGCAC
TCACGTGTGCGGTCATATCAGGTAGAGATGATGAGTAGAGATCTGCCCTAGAAGACACTG
AATTCTGAGATTCAAAGGGGAAAAGTTGATTTTATAGCCAGTGATTTTATAGCCCACTTT
CCTGCCCCACCCCTACTNTAAGAATTGCGGACGCGTGGGTCGAAGCTTGTACCTGCCCG
Sequence 523
CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCCCAGAATA
ACTAAATAAATAAAAGGCTAAAGAAAACTGGAACAGTACTGCGTCTCCATCTGAGACGCA
NTCTTCTACTTCCAGCATCGNAGAGAAGGGCTAGGGACAATTTTTTTTCAAAAGATTTAT
ATACAGGCTTGAATCCAGAAATTAAGGNTAAAAGCATAAATATTGATAATTTCAACTAAA
TTCAGAATGGNTTCAGAAAGATATGATACAACAATTTAGAATAAAACAAAGCAGAAGAGC
ATNATATTTTGCGGACGCGTGGGTCGAAGACCT
Sequence 524
CCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCACGCGTCCGCTTAAAAGATTTTTTT
TTTATGTAAACTGTTGAATATTTGAAATAGTCCACTTCACCTTAATGGGTCTTGTCTATC
TTCATTAGTCTTCAAAGAAAAACCATTTGCTACCAAAGTAAATCAGTATTTTGAATGTGC
TTCTCTTGTTTTTTTGTTTATTAGCTAGTTCCTGTAAGCATTTCCACCAGAACTTGAGGCA
AATCGTAAGGAAGCTGTTTCTTTTAAAACACAAACCACCACCAAAAATTTAAATGTACCT
GCCCG
Sequence 525
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTCAAGACCCGCCTGGC

TABLE 1
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CAACATGGTGAAACCCCATCTCTACTAAAAATATAAAAATCAGCCGGGCATGGTGGCATG
TGCCTGTAATCCCAGCTACTCAGGAGTCTGAGGGAGGAGAATCACTTGAACCTGGAGGCA
GAGGTTGCAGTGAGTCGAGGTTGCGCTACTGCACTCCAGCCTGGACAACAGAGGGAGACT
CTGTCTCAAAAAAAAAAACCTACAGCTGTTCAAGGACCAGCTGACAGGTCAAGTGTGGCC
TTTTCTGGTCTTTGAACACATCATAGAAAGTGACAAATGCTGCAAAGCCATGAAGAACAT
GAACTATAAACGGGTAGACTAACTGCCCAGCTTAGACACTTATCTATGCCACAAAACAGC
TGAATT

Sequence 526
CCGCGGTGGCGGCCGAGGTACCAAAACCCGGCTTTTTTCGAAATACCTGCAAAAAAAAGT
GGATGATTCCAAATCCAACTGAAGTGTCTGCTCTCTCTCCAATTCAGAACAACCAGAAGG
GCCTGTCTTGAATTAGGTAATGCATTAAAGAAAAGTAGGATTATTATATTCCAATTCTTT
CCATCAGATGTAAAACATTATTGGTAGATCACATCTGTTTTAATAAATCTGTAAGAAAGA
CGTGTAATTATAATTATGTTACCATTGTATGTAAATGGCATTTTAACAAGACATATTAAT
ACATTTTTATAGAGTACCTGCCCG

Sequence 527
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGT
CCGGTTAATTTGGGAGAAGGAAGAGAGAGTGACATATTTGGCTACCTTCAGGGAACAAAA
TCTAACAGCACAGATGGTAGTAGAGGAGATACCAATTTACATATTAAGGAGCTAGAGTTG
ATGATGGTATGACTCAGCCCTCTGAGATTAAATTCTACTTACTAGGGCTATGAATGGAGA
TAAGTAGGTATCCCACCTTTTATTAGAAGGTTCCTTAAAATAAATATGGGACTCTGGTCA
GAGAGTAGGGCCATTAATTTGCTCCTGGTTTTTACCTGGCATCCACCCACCAGTACCTGC
CCGGGGGGCGGNCGGCCCGCCCCGGGCAGGTCCCGCACTTTTTTTTTTTTTTTTCCTTT

Sequence 528
CCGCGGTGGCGGCCGCCCGGGCAGGTATTGCCCTTTGATGTCCCCATGAGGGCCAGGCCC
AGGCAGAACCCATCCCATTTTATCCTTAAACTCAGAAGGAAATTTGTCTAAATATTAAAG
GATTAATATGGGGAATAAAAAATGAACCTTAAACCCTGCCACTGATACACAAGCTGTCTC
TCTTAGAGTTCAATGAACACTTCAGGAGAGTATTTCCAACAATATTTAGATATTGGAATA
TCTAAATATTGTTGATTTAGATAACCACCCTAGATTTCTCACCACCCTAGAACATTTAGT
GGGGAGACATTCTTTTCTCCTTTTTCTGATAACTTGGTCAGAAGTGATTGACTGTGCAAA
TGGTATTTCTCAGCTAAAATCTCCCTTATGAACCCTTCTCGAAATCC

Sequence 529
ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCCATTTCCCTGAAACA
AGCAGCCAGCAACTATCTCAGAAATGTGTCATTTTTACTGGTTATAATTCTTAAAAAGCT
TGTTTTCCTAAGATATGAAATGCCTGCCAGTATACAAACTGTTGTAACTACTTCCCTTTT
TGCTTTTAGCGGGGAAAAAATAGCTTAATGACAGCATAGAATCATGTAGTAAATATAATT
CATTTTTTGAAAGGTTCAGCTATATCCTCTTCCATTTGTTTATTTTAAATGATCTAATTG
CAAACATGTCATCACTCCCTTGATGTTTACCTCCTTGTTATGCATTTTTAGCAGGCTTTA
TTGTCACCTGAGATTTTTTTTTTCTTTGACAGGCCGGAGTCTAGATGAAGGAAAATGTGT
TAGAAGCACCTTATCCACAGATGGGG

Sequence 530
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGTAGCAGAGCAGCTCCCTC
GCTGCGATCTATTGAAAAGCTTGAGTCGACCCACGCGTCCGCTGCATAAAAGTTATGCAA
AAAGCATTTTATGATATACCAGCAAAAAACATGGAAAATGAAATTTTGAAAAGCAATGCC
ACTTCAAAGATCCCTCAAGTGCCTAGAGGGAGAAAATGAGTTAATATGCTTTGAAGAACT
GTATCCAGAAAATAAAATTACAAAGGAGGAGAGGGATAGGATTCCAGGACAATCTCAAAA
CTATTGCTTTTTCCTAAATTCATTGCAACCTTAAAATCCTAGCAAGTTCTTTAATGTAAA
TTAACAAGCTAATTCTAGAATTCATATGCATATTCAAAAGTCGAATAATTGTCAAGGCTA
TCCTGTAGAATGGGACAGAGAGGATTGAAATTT

Sequence 531
CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAATCCCGTCTTAC

TABLE 1
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AGAAGAGAAAACTGAGATTTAGCAACATAAAAGTATTTCCCGTAAGTAAACAGTAGAGCC
AAGATCTTGACCTACGCCATCTGATACCCTGAGCCCATGCTATAAAAGAGGAGCATTAGA
AATATTTGAAAGATAGAAATGAGAACTAGTCAATATTTATTTTGCTTAGCACTGTATTCA
GTATTATGGCATCTTAAAGTAGTTAAGACTCAATATTTCATCAAAAAAGTTTAAAATCTA
ATCAGAGAAT
Sequence 532
CGCTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATAAGCCCACCC
CACTAGGAACTATGTTAAAAAAAAATTCAAGAAAGAATTTAAGGGAGATTACAGTGTTAC
TGTGACACCAGGAAAACTTAGAACTTTGTGTGAAATAGACTGGCCAGCATTAGAGGTGGG
TTGGCCATCAGAAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATGACACAAGGTAAC
CCGTAAGCCAAGGCACCCAGACCAGTTTCCATACATAGAAAGTTACAGCTGCTTTTATAC
CCCCTTGCCCCGCCAACGTAGT
Sequence 533
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCGCACTTTTT
TTTTTTTTTGTAGAGACAGGATCTCCTTATGTTGCCCAGGCTAGACTTGAACTCCTGGGC
TCAAGGGATCCTCCTGCCTTGGCCTCCAAAAGTGCTGGGATTATAGGTGTAAACCAGTGT
GCCTAGCCTACAGTTTTTTAATTTTATAAAATGTTATTTCTAATTTTTCTCCAAAAGTAA
AAGTGGCATTCCAATGGCAATATTAATTCAGGTATCCAGAACTCTTAACCTAAATTTGGG
TGAGATGAGGAAAAGTGTATTGTTAATTTTATGTGTCAACTT
Sequence 534
CTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTCTTCGACCC
ACGCGTCCGTAGTAATAGGAATTAACTGACCCCTTTTGGATGGGGGAGAGCATCAGGCTG
GGGTCAGGTAAGTGTAAATGGCCTTCTGAGCATGCTCTTCTAGGCTGACTCCCAGCCCTG
ACTTGAAACCATTAGCGCTAACTTGCTCTGTTTTGAGAAAAACTTTCCAAACTTTTGCAT
GAGAAACTAGAAAAAGGAATGTATGCCACGTAACTGGATTACAGAAATGAGTTAATTGTC
TCTGTGATAAAAAAAAAAAAATGAAATATTTTCTTATTGAATTAATATTTTTGTCTTGAA
GCATTTTCTAGTGATAGAATGTATTTGTCTTTTTTCCTGGTGGTACCT
Sequence 535
CCGCGGTGGCGGCCGCCCGGGCAGGTGTCCCCATGAGGGCCACGGCCCAGGCAGAACCCA
TCCCATTTTATCCTTAAACTCAGAAGGAAATTTGTCTAAATATTAAAGGATTAATATGGG
AATAAAAAATGAACCTTAAA
Sequence 536
GAANTGGAGCTCCCCGCGGTGGCGGCCGAGGTCCAGTAGATTTGGAGAGTAATACAAATC
CTTTCTTTCTGGTTAGAACACACTGCCAAAAGCCACCTCTTTCATCTAAGGAAAAGATTA
AAAATGCATGTTGATATCTCCTAACTATCACACAACTTCCACTATTACAATGAAAAATCT
GGTCCCCTTTCATTGCCTTTGAAAACCNTTTTGCCGAGGTGGNTTTCAAAAAAACNCGNG
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NTTTTGNGGAACCTTTTTTGGGGTCCNAAAANNNACAAAANAAAGGGNTTGGGACNATNT
TTTTGNATNCNCNCNAAAAAAATTTTTTTTTTT
Sequence 537
ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTTCGACCCACGCGTCCGCTA
GGAACTATGTTAAAAAAAATTCAAGAAAGAATTTAAGGGAGATTACAGTGTTACTGTGAC
ACCAGGAAAACTTAGAACTTTGTGTGAAATAGACTGGCCAGCATTAGAGGTGGGTTGGCC
ATCAGAAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATGACACAAGGTAACCCGTAA
GCCAAGGCACCCAGACCAGTTTCCATACATAGAACCTGCCCG
Sequence 538
CACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCG
ACCCACGCGTCCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGCTGGGAGCA
CAAAGATGAATAATAACAATAGGTTCACAGAAAAGATGAATTGATTGAGAGAAAAAGAAC
CCTCCAGGAGCCCTCAGCGTAGTAGGGGGTTGGTGTTGGAGNGGTGGGAGGGAATGGAAA

TABLE 1
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AGGCCCTGA
Sequence 539
AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGACAAGCTTCGACCCACGCGTCCGCAAGT
TTTCAAAATGTAAATACTTCCTCTGTTTAACAGTCCTTGGACCATTCTGATCCAGTTCAC
CAGTAGGTTGGACAGCATATAATTTGCATCATTTTGTCCCTTGTAAATCAAGATGTTCTG
CAGATTATTCCTTTAA
Sequence 540
TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCCATTTCCCTGAAAC
AAGCAGCCAGCAACTATCTCAGAAATGTGTCATTTTTACTGGTTATAATTCTTAAAAAGC
TTGTTTTCCTAAGATATGAAATGCCTGCCAGTATACAAACTGTTGTAACTACTTCCCTTT
TTGCTTTTAGCGGGGAAAAAATAGCTTAATGACAGCATAGAATCATGTAGTAAATATAAT
TCATTTTTTGAAAGGTTCAGCTATATCCTCTTCCATTTGTTTATTTTAAATGATCTAATT
GCAAACATGTCATCACTCCCTT
Sequence 541
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTGGA
TTGTTAAAAGAGGAGTCTAGAAAAATTAATCCTGAACCCTAAAGAATAAATCTTAAGTGG
TGGATACATGGGTTGAATAGTGTGCTCCAAAATTCACATCCACTTGAAACTTCAGAGAGT
GGCCATATTTGTAAATAAGGTATTTGCGGGTGTAATCAGTTAAGGATCTCAAGATAAATT
CATCCTGAATTATAAGTTGTCCTTAAATCCAATTACTGGTATCCTTACAAGAAGGTGAGA
GGAGACAGAATAGAGCCATCTGAAAAGGGTCAGAAA
Sequence 542
CTAACACTACTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGAC
CCACGCGTCCGCAAAAATCAATCAAGGGTTCCTACTCAAGTAAAAAGCAACTTGTAGGAA
AATAATAGGGGATATATTTTGCTCATTAAGGATCTTTTTATAGTGGCTCTTGGTGCACTG
CCTGTGAGTTAGCCCTTATCCTCAAGGAGCAGCTTAAAAAAAAAAAAAAAAAAAANGT
Sequence 543
CTACTATAGGGCGATTGGANCCTCCCCGCGGTGGCGGCCGAGGTACTTCCTGGAAATCAA
TTAACTGAGTCTTTTGAAACCCCTAGAGAAGATAGGAGAAAATTGGTTCAGANCGAGCAT
TTAAATTAAGTCAGCAAAGTCAGAATTTAAAATTGGGCAATTCCTTGTCTACATTTTCTT
TACACTCAA
Sequence 544
CTNACTATAGGGCGANTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGCCAAAGCC
TTAACTTAGATCGTTACTNATGTTTCTAAATCANGTGGAAGCACATTTCCTTTTCTTCTT
CTTTTCTTTTACTGNNAATATCCTNATTCTNTATTTTACCAGTGGNGAATGTTTAGAATT
AATTTCCATTTAGCTCAAGATTCAAGAAATGCAAAGTGCTATTTTTATCAAATTTCTGAA
AGCCTACTGTCTTCTGCTTTGGAAGTCCCACAACAGCTCTTTAATTTCCTTAAGCC
Sequence 545
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCACACAGAAGGAGG
AGGGAGCTAATCCAGTAACAAACATTCAAAGATTAAATTGTAGATATGCACCTCTGTATT
TGGCACTGTTGATTAATATTATAACACCTTCCTCTCAAAGACAGGCATTCTTAAGCGTTA
GTCACAATATACCAGAATTTGCTATTCATATTAAAACCACCTTTTAAACTTTATAACAGT
AACCAATTATTATAGTTTTAAGAAACAAAACGCAATGAGAACTGGGAATGGAATTCAAAT
CCTCCAAATTCTTGCTATGCTCCAAGCTGCCATCCATAAAACAGGTTTAATTTGGGTAAT
TTTTCCATTGTGGGGAAGGGTCAACAAGAAACAATTTAAAGACAATATTTTCCAATACAA
ATAAAGACATACACTTTTTGTT
Sequence 546
TACTTAGGGCGATTGGNANNTCNCCGCGGNGGCGGCCGCCCGGGCAGGTACAAGCTTCGA
CCCACGCGTCCGAAATAATAAAGCTAGAAGTAATATTTTTCCTTTTGTCTATTTTCCAAA
TTGACTCGATATTGATGGCTACTTTTGTAAGTTTTTATTTAAGNTTAAAGGGAATATTTA
TTGATCACCTCTATGTGCTCANTACCT
Sequence 547

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TACTATAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTT
TTCCAGTGCTAAAACATCAGATAAGAGCCTACCTGACATTTTGGAGAATTTGCTGNGCTG
GGATTGATATTCCGCATTGCCTAAGAGTAAAAAATAAGACGGACGCGTGGGTCGAAGCTT
GACCTGCCCGGGCGGCCGGCCGCCCGGGCAGGTACCACAGGAGGCAGAAGGAAATCCTCA
ACCTTCCGAAGAAGGCGTAAGCCAGGAAGCAGAAGGAAACCCCAGAGGAGGGCCGAATCA
GCCTGGCCAGGGATTTAAAGAGGACACACCCGTTAGGCATTTGGACCCTGAAGAAATGAT
AAGAGGAGTAGATGAGCTTGA

Sequence 548
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNAGGGTCGCGGTGGGTCGA
CTNANGCTAGAGAATTGTAATACGACTACTATAGGGATCTAGATCACGAGC

Sequence 549
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTTTTTTTTTTTTTTTT
TACCAGAACATCACATAAGTTTATTTCAGATGTAACAGCAATGTTAAAATTGACAAGTTT
AATTCTTAACTGCACCAAGTAAACTTAGCCATTTAAGTATTTTTTTAAGTTATTCCCTCC
AAAAAACTGAGGGAGCTTTTCTTTTCCACCACCACACCATGGTTTCCCAATAGTTCTCTT
TTTGGAGGACTTTTCAATTGATGAGTAAACTGCTTTAGATATTTCAGAACTTCATTCCCC
AAATGAAAGCTAATCTGGACAAACTATATATTGCATAGATTTCTCTACAGATTCTTTGCT
TTAAAA

Sequence 550
CACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGATGAGGCGGGGA
GGTGGGACCCCCAAACATATATCAGCCCAACAGCCCTAAGTCTCCTTCTTTATTATTAGG
AAAACAACAACAACAACAAACAAAAAAATGGCGTCATGAATATGAACAGCATTGTCAGAT
GAATTAGTTGAAGTGGNTTTTTTTTGTTTTTTTTTTTTTTTTGAACCTGCCCG

Sequence 551
CTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCANGTGCTTCGCCCCAC
GCGTCCGNAATAATTGGAAANGGCCTATAGATTAAAAAGCTGAGAAAGTATATGGTAGGG
AGCACACTCCCCACAAGTATGAACTCTGNGATTACGACATCTCATAAATNCATGAGCACT
CATGTTGGCTTGCTTTGTAGCTATGAACTTACCCTGTATTATTGAAACGTCAGCATAATG
ACTGGAAGGAGAAATTGGTCCATTTTAGAGCATTACTATTATGCTATCTGTCCATTTAAA
TTAATAATTGCATTAAATTCATTTTAGAAGGNGCTATTACATTNGTAGTAAGAAAGTAAA
TTCATATATAAATATTTGATTATCAGATGGTTTACTTACAGATACTTATTTTCCTGTAAA
ATAGGAGAGTTTACCTGAAGAAAAATAAAACTTTTNACTTTTCTGGGAAAAAA

Sequence 552
CTACTTAGGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGCCCGGGCAGGTACCAAGTGAA
TTTAAATAATTGGTGTGGATTGGCCAGTAGCTAAGAAGTGGGCTTTTAAAGAGTNTTGAA
NATNGAANGGGTTTTTNTTTCTTTTTTAAAAAAGAAAAACAAACTATTGATTGTCTATAA
TGAAAAGCTAGGNNTTGCCCTNTTCATGTNTACTCTCCTTCCAAATAGTTATATCCAAAA
CTGTTTTTCCCTCTCCCCTACCTTGTCCCCCCTATTAAAATANAAACNGGGATTGATTAA
TGTCCCGCTCCTGAATACATGTAAAATTTGTACCTCGGCCGNTCTAAAACTAG

Sequence 553
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTC
CGCTTGTCAATAAAAAACAAACAATTGCTAAATAAAACAACCTGAGAAAATCTCCAGAGA
ACTATACTGAGTGAAGGAAGAAAAATCCCCAAAGATTACACACTGTATGTCATTTATATA
ACATTCTTGAAATGACACAATCACAGAAATAGAGAATACTGGTCACTANTGCATTAAGGA
AGGTGTGGAAGGATGTAGTGATGGGAGGAAATGTGTATGGCTGTAACAGGGCAACAGAGG
CNTCATTGTGATGATGGAAGTGTTCTGTNTCTTGGGTTTTTTGAATGTCA

Sequence 554
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTTAAAGGAATAATCTGCAG
AACATCTTGATTTACAAGGGACAAAATGATGCAAATTATATGCTGNCCAACCTACTGGTG
AACTGGATCAGAATGGTCCAAGGACTGTTAAACAGAGGAAGTNTTTACATTTTGAAAAC

Sequence 555

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CTACTTAGGGCGAATTGNANCTCCCCGCGGGGGCGGCCGCTAAAGGAATAATCTGCAGAA
CATCTTGATTTACAAGGGACAAAATGATGCAAATTATATGCTGTCCAACCTACTGGTGAA
CTGGATCAGAATGGTCCAAGGACTGTTAAACAGAGGAAGTNTTTACATTTTGAAAACTTG
CGGACGCGTGGGTCGAAGCTTGTACACCTT
Sequence 556
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTG
TTTTGGTTTGTTTTTTGGGCTCTCAGGTTTACCACTCTCTCCCCATCTTCCCAGGTTTAG
GAGGCAGGCCTCTNCCTTTCCTACCCTCCCACCCGAAGGTGAGTCACTAGAGTGTTACAA
GCTTACTGGCAGGGAACACTACAAATTAACAAACAGTAAGTTACCAAAAGGGGATACACC
CTTATAAAAGGGTACCTN
Sequence 557
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCACGCGT
CCGCTTTCAATAGATCGCAGCGAGGGAGCTGCTCTGCTACGTCACAATCTTTCAAAAAAA
TGAACATGTAAGAAAAAGCAGTTTTCATTGTGCTAATTATTGCAGGCCTTCATGCACGTA
AACCTCAACAAAATGTGTGCCAACAATATACAAATTTCCATATAAACAAAGTCATTGATC
ACTAACAAAATATAAACATGGNTTCTTTTATATTAGATTTTTTTTAAAAAAAAGCTATTT
ACCAGCAAGAAAAAACAAGTACCTGCCCG
Sequence 558
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGC
ATTTATTAAGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAATT
GATCTTAACCACAAGGCTGAGAAGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGTAT
TAAATCCTCCAGAGAAGCCTGTAGTGTGGGATGCAAACTATTTTAAGTGTGACCATGAGG
TGTTTTTTTGTGGACCATTTTAAANCCAATGATAGGTTCTAAAGCAATCTCAACCTGAGT
TAGG
Sequence 559
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGGCTTCGACCCACGCGT
CCGCTCCAGGAGACTTCTGCTTACCTCTCAGTGATCAAAAACCGTTTCACCACAGTTACT
TACCACGTCCTACCGATCCGCATTCTCGCAAGTGTCCTTCACTCCATTTACTCTACTGCA
TTTTTCACTGTATTTCTCATGCCAAAACTTGGGCTTCTCCACCAGTCTGCACACGTTCAT
GCTCTCAATTCTCACAGCCATCTATTTCATTCTCCACTAAACTGTTAGAGGGATTTCTGN
AGAAATTAAAGAAATTCCTATCACTCCTAAAAAAAAAAAAAAAAAGTGCGGCCGCTCTAG
AACTAG
Sequence 560
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCACG
CGTCCGCAAGTTTTCAAAATGTAAATACTTCCTCTGTTTAACAGTCCTTGGACCATTCTG
ATCCAGTTCACCAGTAGGTTGGACAGCATATAATTTGCATCATTTTGTCCCTTGTAAATC
AAGATGTTCTGCAGATTATTCCTTTAA
Sequence 561
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCTTTATTTATTTCTT
TTAGGAATTGCAGGTTCCTAACAAAGTAGGGGTGAGGGGGGTGTTACAAACCAGTCACTA
GGCAGGAACATTAGACTCCAAAAGCAGAGAAATGCTTAATTTTTCTTCTACCTGTTTCAC
CACATTCATGTANAACTGTAGTAAAAAAGATGGNGAATCAGGCTGAATCAATCTAAATAA
CAACTTAAGGCTCCCAAATCACATGAACCTAGGACCACTAAATCCAATGTCAGACGTGTT
TAAATGGNGCACTGCTCTACATTTTTCTATTATGCAAAGAGCTAGAAAATAATGGTAGTG
TCATTATGACATTCCATGAAAATGAAGAAAATCTTTCANGAAAAATTTAGAAAATAAAAA
TGTTTACT
Sequence 562
TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGCCAAAGCCTTAACT
TAGATTGTTACTTATGTTTCTAAATCTGNGGAAGCACATTTCCTTTTCTTCTTCTTTTCT
TTTACTGNTAATATCCTTATTCTCTATTTTACCAGTGGAGAATGTTTAGTATTAATTTCC
ATTTAGCTCAAGATTCAAGAAATGCAAAGTGCTATTTTTATCAAATTTCTGAAAGCCTAC

TABLE 1

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TGTCTTCTGCTTTGGAAGTCCCACAACAGCTCTTTAATTTCCTTAAGCCCCACTTTCCTC
ATCAGCAAGTTGGTGTGGCAATGGATCATAATAGGTTGCTGGGAGGATGAAGTGAGCGGA
CGCGTGGGTCGAAGCTTGTACCT

Sequence 563

CTACTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCAGTAATCACATA
AATTCTGCAATCATCTGTTTATTTAGCTTAACTGTTTTTTTTTTTATTTGTTGAAGTTGT
TGTTGTTATTNCAGTCTTTTTCTTATTGGGTTGACCAGACTTGGTAAAATCTGTAAGAAA
GTTCCATAAT

Sequence 564

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTTCTTCAGATTCAAAT
GCCAACACTAATTTGAACTTCTTTGGGTCTATGACAGTTTGCAAGCCATACAAACCCAAA
GAGCTAATCTGTGATTTCTTAACTTGAGAAAATAATAATNATAACCACCACTGGAACCTA
CATAGGTTTGTNGNTTATTTAACATGACTTAACCTTTTGTTTGTATTTTTTTGAAAAAAA
AAAAAAAAAAGTGACCTGCCCGGGGCGGCCGGACGGCCGGGCAGGTCGCNCTCAAATTNT
TNAATTTNTTTTGGAAAGACANGNATTTTTTATTTTTGCCAANGCTAAAACTTNACNCTG
GGCCTTTAAAGGGGATTCCNTNCTGGCCTTTGGGCCNCCAAAAAGTGCTTGGGATTNTTN
GGGTNNAAACCCCGGNGGGGCCCTAGCCTACCAGTTTTTTTAAA

Sequence 565

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCC
GTGCAAATTTGACTTTGTAAATGGCCCTTGGGCTCTGGGAGGAAAGCAACTGTTGGGCCA
TGTGGTTGTATCTTTAGTTTTGTAAAGAATTGCCAAACTGTTTTATAATGTGGGTATATC
TTTCCACACTTCCAGCACAATGTATGAGTGATCCAGTTTCTTAGCACCATAGTCAGAATT
TACTGTTGCTACTATTTTTTTAGCTATCCTGATAGATGTGTAGTGATATTTTATTCTGGTT
TTGAAGCAGTGTCATTGTCTGGGGTAAATCCTTGAGGTTTGTTGTCTCAGTCAAGGGGAA
TCAAGGGACATGGACACACAAGTAGTGAATTTAAGAGTGGAAGTTTAATAGGTGA

Sequence 566

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGAC
CCACGCGTCCGTCTTATTTTTTACTCTTAGGCAATGCGGAATATCAATCCCAGCACAGCA
AATTCTCCAAAATGTCAGGTAGGCTCTTATCTGATGTTTTAGCACTGGAAAAAAAAAAAA
AAAAAAAGT

Sequence 567

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGGCAGGTCAAGCTTCGAC
CCACGCGTCCGCATATTTTCATTACTTGACAATGTGGGATGGGTGCAATTTATTCCATCT
TCACTAAAATAGAAGCAATTCCATAGGTACCATAAACCTATTTTAGGTACCACAAGGTGT
CTTTTTACACAGCTCATTTGAATACAGGTGTTCTGAGAAGGGGTTTCTATTTTAAAATTA
CCATATCAAAATAAATGTGCCTTATTTTTTTATAAGNCTTGTTAAATCAGTGTCCATATT
ACTGTTTGGGGAAGG

Sequence 568

CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCAGGTACAAATAAGCCCACCCCACT
AGGAACTATGTTAAAAAAAAATTCAAGAAAGAATTTAAGGGAGATTACAGTGTTACTGTG
ACACCAGGAAAACTTAGAACTTTGTGTGAAATAGACTGGCCAGCATTAGAGGTGGGTTGG
CCATCAGAAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATGACACAAGGTAACCCGT
AAGCCAAGGCACCCAGACCAGTTTCCATACATAGAAAGTTACAGCTGCTTTTATACCCCC
TTGCCCCGCCAACGTAGTTAAGAGAACAGCAGCATAAGCGGCTGGCAGAGGCAAGGAAAG
ACCAGTNNAGAGAAAAAAAGGCCATCTATACCAATTCTAAG

Sequence 569

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGAGCGGCCGNC
CGGGCAGGTACACAAACCAGATGTATGCANTGATGCCAAAAGTCATCTNAAAATTCCAAG
CTGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCTTGAAGATTTACTTTGTA
TACTTCAAAAGATCTGGTCATGAAATTTTTAGCTAATACATAAAGNGCCGAATTGAAATC
CAGAATACAATAGCTNTGAAGGGCCGCTAGAGTGCAGATAACCAACCCATTCTACCTAAC

TABLE 1

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TCAGGTTGAGATTGCTTTAGAACCTATCATTGGGCTTTAAAATGGTCCACAAAAAAACAC
CTCATGGGCACACTTAAAATAGTTTGCATCCCACACTACAGGCTTCTCTGGAGGGATTTA
ATACTTTGGG

Sequence 570

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTATTTTCCCTCAGTAAC
ATGTAATTGCTACATTTTTTATAAGAAGGTATGGTTAGAAAAAAATGTGAAAGATCACTT
AAACCAAAGCCAGTTACAAGGAGTAATCTCTCCTGTTGGTTTACCTTCACCTCANAACTA
CAAGAATATTACAATACATAGTGAATAGTTGTCTGTAACATTTCTACCAGTTGTTTCANT
AGCATATTGGTCTTGGCATTTCTTGGCACTGTGGTTCTGCTGTATTATTTGTGATGTCTT
ATTGTTTGTGAGCTTTTGTTTTTTTTTAAAGAAAAAACAAAAACTAAGTG

Sequence 571

TAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCAGTAATCACATA
AATTCTGCAATCATCTGTTTATTTAGCTTAACTGNTTTTTTTTATTTGNTGAAGTTGTTG
TGTGTTATTTCAGNCTTTTTCTTATTGGGTTGACCAGACTTGGTAAAATCTGTAAGAAAG
NTCCATAATTATGGGGAAGATTTCCTCTGAATTGGCTAAATTCCTGTAGCTGAAAAAAAA
AAAAAAAAAAAAGT

Sequence 572

TTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCACGCGT
CCGCAAGTTTTCAAAATGTAAATACTTCCTCTGTTTAACAGTCCTTGGACCATTCTGATC
CAGTTCACCAGTAGGTTGGACAGCATATAATTTGCATCATTTTGTCCCTTGTAAATCAAG
ATGTTCTGCAGATTATTCCTTTAA

Sequence 573

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTACGGC
TTCTGACAGGCCTCAGAAGAACATTCCCTACCCCAAAATTATAAAAATAATCTTGTATAT
ATTCTTCTCAAAACTTTATACTTTTTTTAAGGCTTGGATTTTTAATCTATCTGGAATGTA
TTTTTAAATACTGAGTGAGTCACTTTTCTCCCGGACGCGTGGGTCGAAGACCT

Sequence 574

GAATTGGAGCTCCCCGNGGTGGGGCCGCTCGAGGCCGCTCTGACCTCTTTAAGGNANACT
TATTATGCTAATAGTTGATGCGCCCTTTTGCTGNANCAGTTACCATAGGTTACATGATAA
NTATATATTGTTGNGATGATCTGATTNCCTGNNTNCCCCACCCNTGCAAAACAACAACAA
AAACCTTTACCAGGCTNTATAACANGGGGACCAAACTTGNTTTTGCTCATCATTGCCGGA
CG

Sequence 575

AGGTACTTACCCCAGACAACGACGCCGCTTCACCATGATGATGGACAACAGGCAACTTTT
TTTTTGGAGTTTCAGCTTGCTTCCAACAGGGACGGTGAGTGTGAGGTTTATTCCCATTTC
TAAGACGATAGAAGTTTTCAGCCTAAGCCGTATTCCTAGGTAAGCAGCTGGATTGCAAGT
TTTGTCTTGGAAATTCTCCTTAATGACTAAAAGTTAAAGAATTAAACAACCTAGCTGGGC
TTAAATTTCTTNCTTACCCATTAGAAGTACCCTTGCCC

Sequence 576

TAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGNGGTCTAAGAGACAGGGTCTCACTACA
TTGCCTAGATTGGNCTCACACTCCTGGGCTCAAGCAATCTTCCTCTCTTGGCCTCCCAAA
GTGTTGGGATTGCAGGTGTGCGCCACTAGGCCCAGCTTGAAAAATTTTTAATGCATGTGG
TAATCCACAGGAGATCACATTTAGTATATGACCAAGTTAATTAAGAAGNCAAAAAACACG
TTAAATTTAAGCAGAATAAGGCTGGGTTCGGTGGCTCATGTTAGTTTTTATCCTTAAAAT
TGTCTGAGTTCTTAGAACACAGAAAAAACAAATTTGAATGCATTTCTAACAGCTTAATAA
TTTATATGTCCCATTATG

Sequence 577

GGGGNGGCGGCCGCCCGGGCAGGTCAATGCTTCGACCCACGCGTCCGATTTCAGGTTGAC
TTTTCTCACCTTTAACCTCTTTATATAGCACAGTGCAATCTGGCCCTACTGCCACTTCAT
CTGGGTTATCTGTAGCTTGAGTTGTAAAAAAAAAAAAAAAAAAAGTGCGGCCGACCT

Sequence 578

TABLE 1
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AGGTGTCGACTCAAGCTTTCAGATATAGGCATTCCAGAATCTTCTCTTTACGAGTTCACC
TGCTAGTATAATCTCCACAACTTGAATGGCATTGGTTGTTCTGTAATTCCTGCCAAAAGC
ATCACAAGTTGTACCTGCCCG
Sequence 579
CCGGGCAGGTTACAAGTCGACCCACGCGTCCGCTTCAGAATATCCAATTCATGTGAACTA
CAGGAAATTATAGTTTAGATATTTTTAAATGATTTGCCTGTCACCGTATAACACAAGGGT
GTCATGACCAAGCTAGATCTCTTTACCATATCATTAATAAAAGTCAAATTTTAAATTTGT
GCCCAATTTGGCTGGGTGTGGTGGCTCATTCCTGTGATTCCAGCACTTTGGGAGACCT
Sequence 580
GTGAACCTGCCCGGGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTTTCCTTTTGAGACA
CAGTCTCACTCTTGCCCAGGTTGGTCTAAAACTCCTGGGCTCAAGCAATCCTCCCGCTTT
CAGCCTCCCAAAGTGCTGGGGTTACAGCCGTGTGCCACTGTGTCTGGCCCTTTTCTTTTT
CATAGGAGAAGGGTTGTTGACTCCCAGGAAACGTCACCTGGAACCAAGAATGTGAACTCA
AGGACCCCCGCCTGTTGGCAGCTGCATTTACTTGACTCCTGTTCACTGTTTCTTAGCCTT
GTCCTTTCTCTCCTGCCAGTTCTAGGGGACACTGCTTCTCCTGGTTGACCTC
Sequence 581
CCGGGCAGGTACCCTAAAACTTAAAGTATAATAAAAAAAAGATTATTTCCTATACTTCAA
AATCAACAAGATTTGATTGCATTTAAATTTTTCTGTCCATTTGTTCTTCTATGTAATACT
TTAAAAATAATTGGCATAAAAATTCAATCAATTCATAAAAGTCCAAAGCAAAAAAAACAA
ATCTACTGACATCTCTTGAGGAAGAAATGATCAGGATTGACATTAATGAACCCTCTCACA
GAGACCACTACACACACACACACAAAAAGAAGGATGGGTGAATGGATGCAGAGAGAATTT
AATAAGACTGAAATGATGCCATACATGCTTTTAAAAAATAAAAAGTATTAAATTTTAA
Sequence 582
CCGGGCAGGTACTTATACTAGAAGATGCTCCAAGGTTTCAGAAAGGAATTAATTACTTTC
AATTTGCACAATTTAGAACAAATATCTGGCTTTTCCCTAAGCTTAATGATTTTCCATTTC
ACACAACTAAAATATAATAGCATTATTTTATAATCAAGTTTAACTGATGGTCTATGATAG
TAGAGCGATTTAGTATTTTGACAAAAATCTTATGAGACATGAAGTCATTCAATTTGCCGG
ACGCGTGGGTCGACTCAAGCTAGACCT
Sequence 583
AGGTCGCCATCACACCCGGCTAATTTTTTTTGTATTTTTAGTAGAGACAGGGTTTCACCA
TGCTAGCCAGGATGGTCTCAATCTCCTGATCTCGTGATCCGCCCACCTCAGCCTTCCAAA
GTGCTGGGATTAAAGGCGTGAGCCACCACGCCTGGCCAGGAGATTCTTAATTATTTCTGA
ACTCTATCAGTTTTGTATTAGGACATCTTATTTAATATTATCAAAAGATAGTTCCTCTTA
GAGGCATAAATCAGTCAATCAACAAACAATAGGCAATCACGGACGCGTGGGTCGAAGACC
TGCCCG
Sequence 584
AGGTGTACAAGCTTCGACCCACGCGTCCGCATTTTTCTGGTGTTCCCTCTTACGTGCACA
CCCCTTGCTCCCCTTTGGGTTGACTTATAATCTGACTTTTGTGACAGATGTTAGGAGGTG
GAGCAAAGGAATTTCAGACCAATCAGTTAAGAGACTGCTGTGGGGTAAGAAAAAAAATTA
GCCTCTTAAAATTACTCTTATCAAAGGAAAAAAAGTTGGAAGCACATGATAGTATAACCA
GAAACATGACACAGAAGAATTAAGGGAAGAACCTGCCCG
Sequence 585
CCGGGCAGGTGGAAAGGTGGGTGGGGAGAGGGAGGCTTATTTGTTGCTGCAGTGTAACTA
AGTGAAACCTAATTCATATGACTCAAACTAAGGTATATTTGGTTAGATCTAGGTGAGTTC
TACTTTAGAGGAAATCCTGGTAACTGTTGTTTGTTTGTAAGTTATAGCTGTAATTAATTT
TCCCTGTATTCAAAGCCCCCAAACCCTGCATTCAGATACTATGCATTTAGACTTCCTTAG
GCAAAGTCAAGGCAACAAGCTGATGATTCTAAGCTATTATTCAAGGAGTATCTACCATCA
TAAAGGTGGTTTAGTCATATAGATAATATCAATCAATAAT
Sequence 586
CCGGGCAGGTCTTCGACCCACGCGTCCGTGATTGCCTATTGTTTGTTGATTGACTGATTT
ATGCCTCTAAGAGGAACTATCTTTTGATAATATTAAATAAGATGTCCTAATACAAAACTG

TABLE 1
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ATAGAGTTCAGAAATAATTAAGAATCTCCTGGCCAGGCGTGGTGGCTCACGCCTTTAATC
CCAGCACTTTGGAAGGCTGAGGTGGGCGGATCACGAGATCAGGAGATTGAGACCATCCTG
GCTAGCATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAAAATTAGCCGGGTGTGATG
GCGACCT

Sequence 587

AGGTACATTGTTAGACAAGTGTTTATCACTAATCTGGAATACATCATCTTCAATAAGGCT
CTTGTTTTCCTCCAAGCTGCACTGCTCACACTGCTCAGTTTTCTGTTAAGCAACCTGCTC
ATTATAGTAGAGCACCAAGGTGATCTGTTCTTCTGTTCTTCAGAAGTTCACTATTTCTTG
TTGCAACAGGGCTACATGATTTTAAGATTCCTCAAAGTCAATACGAATTAACATTATTTT
CCATTTCCATTCTGTATATCTTCACATTCCATAAATATAATACTCATGTATACGTTAAAT
TTCCTTATAAGTTCAACACATTGAAAGCTAAAATAAAGACTTCCTACTAG

Sequence 588

CCGGGCAGGTACACAAACCAGATGTATGCAATGATGCCAAAAGTCATCTCAAAATTCCAA
GCTGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCTTGAAGATTTACTTTGT
ATACTTCAAAAGATCTGGTCATGAAATTTTTAGCTAATACATAAAGTGCCGAATTGAAAT
CCAGAATACAATAGCTATGAAGGGCCGCTAGAGTGCAGATAACCAACCCATTCTACCTAA
CTCAGGTTGAGATTGCTTTAGAACCTATCATTGGCTTTAAAATGGTCCACAAAAAAACAC
CTCATGGTCACACTTAAAATAGTTTGCATCCCACACTA

Sequence 589

CCGGGCAGGTGACTTGGCTGTGAAAAGTGCTAAAACAGATAAAAGACTATACTGACAGGC
AAATGGAGCCTGTTATGACACTGACATTGAAGGTGAAAGGAGAATCCAGTTCACATTAGC
CAGGGTCTCAGGGACCAGGTTTTGAGGCAGTATTTCTGCCTCTTGAGGACAGGGCAGAGC
AGGTGGGTAAAAAGCAAAGAGACCAGGGAAGGGGGACTAAAAGTAAGGGAAACAGCATCT
GAGGAAAGGCTCCTCTGACTGGATTTTCACAAACATTATTTATTAACCTCACTAAACAAG
GATAATGGGACAAAACAGGGGCAAGCTGGAAAACCAGCAGGGGTATTTGGCAG

Sequence 590

CCGGGCAGGTACATCACCCTGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAA
GGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCC
GTGTTGGTCACTGNCAAGGCATTGTTCTCCTCCAATTTGGACCCCAGCCTGTTGGAGCAA
GTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTG
GTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGC
ACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACCATATTCCCAGGAC

Sequence 591

CCGGGCAGGTGGAAAGGTGGGTGGGGAGAGGGAGGCTTATTTGTTGCTGCAGTGTAACTA
AGTGAAACCTAATTCATATGACTCAAACTAAGGTATATTTGGTTAGATCTAGGTGAGTTC
TACTTTAGAGGAAATCCTGGTAACTGTTGTTTGTTTGTAAGTTATAGCTGTAATTAATTT
TCCCTGTATTCAAAGCCCCCAAACCCTGCATTCAGATACTATGCATTTAGACTTCCTTAG
GCAAAGTCAAGGCAACAAGCTGATGATTCTAAGCTATTATTCAAGGAGTATCTACCATCA
TAAAGGTGGTTTAG

Sequence 592

AGGTCAAGCTTCGACCCACGCGTCCGCAGCCTGGGTGATAGTGAGATCCTGTCTTAAAAT
GAAGAAAGAAAGAAAAAAAGAATGAGAAGGAAGGATATTAATTGAAGTAAGAGCACATTT
GATTACAAAATAGAAGAGGAGTAAGTGAGAACTAAACGGGGAATACAGATAGCAGAGATT
AAATAGGCTATAAGAAAAAAAAGGGATGATAATAAGACCATGGTAGTACCTGCCCG

Sequence 593

AGGGCCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGTTTA
CAATATGGTGACAACAGATAACTGTAAAAACTTCTTTTTCAAATAGAACCAGCAGGAGCA
TGCATGGAACACATATACCAAACATCTTTCTGATAACATTAAACATTTTTAAAAGATGTT
AAATGTTCTTTTCATTGNGGTGCTTCAGATTCCTGATTCTAGAACTTGTGTGTGTGGAAC
CTGTGTGCTAACTATTCTGTTGGAATTTACCAGCAAAGAATTATCTAAGAATTTTCAAAC
TAAATGATGGGGGAAGGAACTAACATTTTTGCAGNCCCTGGAAATGTAAAATGTTGTACC

TABLE 1
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Sequence 594
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATAAATAGC
ATTCCCACGGTGACCACAAGTCTTGGAATCAGTTCCAGGTGTCGTCGTGGCCGTTGACAC
CGCTGCCTTCTGACGGTAAATGTATTGTAGAATTCATGTTGTTATCAGGCTTCAGTTTCC
TCATCTCTAAAATGAGAGGATTGGATAAGTTAGTAGTTTCTAATTTTTACTTTTAATCAG
TGGCATCTCCCATTTATTTTTCATTTGAAATAAAACTTTTGAATTTTATCTTCTACCTAA
ATAACATATTTTGTTTTATGTTTCAAGATGAAGCTCACACTGAGTTGGAAAAAAGGAAAA
AGCAAAGGATCAAAGCTG
Sequence 595
CTATAGGGCCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGCCAAAGCCTT
AACTTAGATTGTTACTTATGTTTCTAAATCTGTGGAAGCACATTTCCTTTTCTTCTTCTT
TTCTTTTACTGTTAATATCCTTATTCTCTATTTTACCAGTGGAGAATGTTTAGTATTAAT
TTCCATTTAGCTCAAGATTCAAGAAATGCANAGTGCTATTTTTATCAAATTTCTGAAAGC
CTACTGTCTTCTGCTTTGGAAGTCCCACAACAGCTCTTTAATTTCCTTAAGCCCCACTTT
CCTCATCAGCAAGTTGGTGTGGCANTGGATCATANTAGGTTGCTGGGAGGATGAAGTGA
Sequence 596
ATGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGA
TTATTCTCTCCATTTAGGCTATAAATCTTTCAGTGTAGGGTGTTTCTAATGTCATATTCT
TCCAAAAAAAAAAAAAAAAAAGT
Sequence 597
CCGGGCAGGTCTTCGACCCACGCGTCCGGCTCTCCAGTTTATACATGAAGAAACTTTCCG
AAAGTCTTGCAGCTTGTGGAGAGCAGAGCTGGAGAGCAGGCTAGTCTGATTTTAGAAGGG
AGTTAACCATTACATAACCTGCAGGTGGCTTCTCCCCATACCTGCCGTGGGATAATATGG
CTCACTTTTTACTTCATTTACAATATTTAATAAGTGCGATTTTAGACTTGAGAAGAGAAT
ATTTTCTGCTAAAATTATCCCCACTAGAGATAATCACCAGTGAATTAATACACTGCAGCA
ACGGAACCAGTCAGCTTTTTTGGTAATCATTCCCTTCCT
Sequence 598
CCGGGCAGGTCTTCNACCCACGCGTCCGGCTCTCCAGTTTATACATGAAGAAACTTTCCG
AAAGTCTTGCAGCTTGTGGAGAGCAGAGCTGGAGAGCAGGCTAGTCTGATTTTAGAAGGG
AGTTAACCATTACATAACCTGCAGGTGGCTTCTCCCCATACCTGCCGTAGGGATAATATG
GCTCACTTTTTACTNCATTTACAATATTCAATAAAGTGCGATTTTAGACTTGAGANGAGA
ATATTTTCTNCTNAAATTTATCCCCNCTAGAGATAATNNACCAGTGAATTNATACACTGC
ACCNNACGGAAACCAGTCA
Sequence 599
AGGTGCTTCGACCCACGCGTCCGGTATTTCTCTTAAAGTTAATTTTGATAGATATTTATC
TAGATGCTTTCTTTTTTCCCTTGCCATAATAGCTGGCTTGTAGAGAGAGTTATGTTTGAA
AAGGCTTGCCTTTTTTCCGTCGCTCTG
Sequence 600
AGGTCAAGCTTCGACCCACGCGTCCGTGATGCTGGCTTCCCGGTCAAAGCTGAGGAGTTT
TGTGGTGCTTTCTCAGGAACCTTCTGTCACGGAAACCATTGCACCCAAAATTGCAAGACC
TTTCATAGAGACTTTCCTCAGGCCCTCAAGAGTATTTGAGTATCTGGAGGAGGATGCCCA
GAAGTCCNCACAGGAGGGGGTGCTTGGGACCACACACTGATGCTCTTGNCATTCAGACTC
TGAGAAACATGCCGCGTGATGAANAAACCATCCCAATTANANGAAGCTAGCTGNNTTNCA
TTGNAGCAGCTTTACCCCAATTT
Sequence 601
CCGGGCAGGTCAAGCTTCGACCCACGCGTCCGTGATAACTTCTCCTAAGTGCCAGGCATT
GTATTACATGCTGGGAGCACAAAGATGAATAATAACAATAGGTTCACAGAAAAGATGAAT
TGATTGAGAGAAAAAGAACCCTCCAGGAGCCCTCAGCGTAGTAGGGGGTTGGTGTTGGAG
GGTGGAGGAATGGAAAAGGNCCTGAAATGCANGCAGAGAAATGATGAAACAATTCCNGGG
GCTGCGGNGAGGTTANATGAATATCTTTACAGCAGCCTNGAAGACTGATCANGTTACTAT

TABLE 1
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ACCCTCTCTTCTGTCCACGTGCATTTNA
Sequence 602
CCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCATTTATTAAGGCTTGTATATGT
TCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAATTGATCTTAACCACAAGGCTGAGA
AGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGTATTAAATCCTCCAGAGAAGCCTGT
AGTGTGGGATGCAAACTATTTTAAGTGTGACCATGAGGTGTTTTTTTGTGGACCATTTTA
AAGCCAATGATAGGTTCTAAAGCAATCTCAACCTGAGTTAGGTAGAATGGGTTGGTTATC
TGCACTCTAGCGGCCCTTCATAGCTATTGTATTCTGGATTTCAATTCGGCACTTTATGTA
T
Sequence 603
ATTGGAGCCTCCCCGCGGTGGCGGCCGAGGTAGCTTGAGTCGACCCACGCGTCCGTTCAG
ATCCGTTTCAGAAACGTGAGTCTCTAGCTCAGGAGATTTCCACAACTGTCCTTAGTAACC
TGATCTTATTCTCATGTTTAACCTTGGCAGTGGGAAGTTCTTCCTGGTATCCTGCCTAAT
TTACTGGAGTTGGCATTAATGCCATTTCCCCCTAAGGCGTGGCTCTTGGACCAGTATCAC
CTGAGAATTTGATAGACATAGACCCAGAGTTACTGAGGGCAGGTGCTCTGTTTTGGGGAC
CAGCAATCGGTGCTTTAGCAAGTNCTTTGGGTGATAGGGGTTNTGGAAACTACTGCTCTA
AAGCATNATCTGTTTTTGAC
Sequence 604
GGTACCCAAAAGATATCACTGTGAAGGTTTGGATACACTGACTGAGGAAAAAAGAAGGTC
CTGAAAGCGTNTAGACAAAAAAAGACTACTTGTAAGTTGCAAGAATCAGAATGGCATTGG
ACTTCTCAGCTTTCCTCATTAGAAGTTTAAGATCTGAAGCAATCTTTAAACTCGTGAGGA
AAATTAAGTCTAATAAATANTTTTCTTCTTAGCCCAAACAATCAAATGTGAAGCTAGAAT
AAGCATTTTCAGGTAAAAAAAAAAAAAAAAAAGTGCGGC
Sequence 605
CCGGGCAGGTACANNTTGTGATGATTTTGGCAGCAATTACAGAACAACCAAGGCCATTCA
AGTTGTGGAGATTATACTAGCAGGTGAACTCGTAAAGAGAAGATTCTGGAATGCCTATAT
CTGAAATCAGAATCCTAGTAGTTTGTAGTTTGCCTCTTCCTAGAAGTTCAAGAGACTCAA
GTCATAGGCTACAGATGTACCTN
Sequence 606
AGGTCTTCGACCCACGCGTCCGCAACTGTTGATCTAACTTTTCCACTTGAATGTCTAATT
GGCAAATCAAACCTAACATGTTCCAAACGAGTTCTGAAGCACCCCCTCTGCCAAATCTAC
GTCTCCCACAGCCTTCCCTATTTCTCTACCTGGTACCTGCCCGGGCGGCCGCTCGACCTG
CCCG
Sequence 607
AGGTCTTGAGTCGACCCACGCGTCCGGAGATGTATACGCCACTATAGGAACTATAAGAAA
AAGTCAAATGGAAATCTTATAAATAAAAACCACAGTCACTATAATGAGGAAATACTTTGA
TAAGGTGTCAGTGAACTCAAAAATCAATCAATAGAAACTACTCAAACTAAAACTCAAAGA
GAAAAAAAAAGATGGGAGATAATTATTTTTTAAGAATTGGTCATCAAAATGTAGCAACAA
GTTTGCCTTATCCTATATCATTTGAATTTTCAAAAAATAAGCTCATTATACAATCTTTAA
AATATTTTGAATAGAACTGTTTCATGTGTTATTTGT
Sequence 608
AGGTCAAGCTTCGACCCACGCGTCCGGGGAACCCTTGTTCAGGTTCTTTTTAGGCAACCC
AAGCCAAGACAACAAAGTAAGATAGAGCCCCAAATGTGGTCGTATAAGGTTTTTCAAAGA
AAGTAACACTTGAGTTAGGTCTTAAAGTTTCACCTAAGAAACTGCCCAGGTGGACAAGAA
GAAAGGGTGTTCCAAGTAGAAATAATAGCATGGACAAAGGCAATGTAGCAGGAAAAGTCT
TCGTAAATTCAGGGAATTTCAAGTGTTTCACGATGGAAGGAGCAATAGAGTCATTTACTT
GCGGTGGCAGGGGATGTTGGAAATGTAAACAAGAGTGAGATAC
Sequence 609
AGGTCAAGCTTCGACCCACGCGTCCGTGATGCTGGCTTCCCGGTCAAAGCTGAGGAGTTT
GTGGTACTTTCTCAGGAACCTTCTGTCACGGAAACCATTGCACCCAAAATTGCAAGACCT
TTCATAGAGACTTTCCTCAGGCCCTCAAGAGTATTGAGTATCTGGAGGAGGATGCCCAGA

TABLE 1

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AGTCCGCACAGGAGGGGGTGCTGGGACCACACACTGATGCTCTGTCATCAGACTCTGAGA
ACATGCCGTGTGATGAAGAACCATCCCAATTAGAGGAGCTAGCTGACTTCATGGAGCAGC
TTACACCAATTGAA

Sequence 610

ACTTTTTTTTTTTTTTTAGCTTGAGTCGACCCACGCGTCCGGGGATCTAGATCACGAGCG
GCCGGCCGCCCGGGCAGGTACGGAAGCCATGCACTTGCCTCTCCTTCAGAGCTGGGATTT
TTTTTCATTTTGCTGGCTGTGAGCACACACACGCCCACAGGTGCCTAAGCCTCTTGTATG
TGTGTTTTGAACTGTGTCCTCTGAGTTCTGTGTCTGGGTGCATGCTCTCCTCTTAGCGTG
GGTCTCCTTCCCCTGTGTAGCACTTCACAATGTTAGGCATTTGTCTGTGATAGCAGCTGT
TCAGTAATTTCCTACTT

Sequence 611

AGGTTTCGACCCACGCGTCCGGAATTTATCTGGCCAGGCATTGGTAGTTTACAGAAGTCT
ACCAGATGATTCTAATGTGTGGTCAAGACTGAGAACTATGTGTTTAATTGGGTTCATTTC
AAGAATACTGTAAAAATTTTATCTAAATACTAAATATCCATAAAAGAAACCTCGGTAATC
AGGCCAGGTTTTTGAGTTTTTCCAGATTAGCCCAACTACAGGGGAAAGAGACTTTCGCAC
TATATCCCAGAGTCTCTGCTCCTGCTTCCAGCCTCAATGCACTGGGCCTTTCTGCTGCCT
TGGAGCACTTAGAGGGATTACAGGAGGAGTGATCTGTGGAGTT

Sequence 612

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCAGCGCCCGGGCAGGTACATACAGCCTGAAG
TTAACCTTTCTATGTTAAATGAAAAAACTTTGTCATTCATCAGGTCACAGAAACCAAAAA
CTAAACAATGCAAAAAAAAAAAAATCTAAAAATAAAAGAATTTTATATTTGAAGTTATTC
TGGATATTCGCACCATTTTAGCTTCTGAAAAAAATGCAACTATGAAATGAAGACCTCATA
TATTTTCATTTATCAATATAATGTTAAAAGTTTCATTCCACCGGGTGTGGNGGCTCACAC
TTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCATGAGGTCAGGAGATCGAGA
GTATCCTGGCTAACATGGTGAAACCCCGTCTCTCTAAAAAAATTCNNNAAAANAAAAAAA
AAGGAA

Sequence 613

CGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTGTAGTTTTCTTAGCCATTTTTC
AATAGTCTACACAGTGTTTATGTTTCCTTTTATTTGTGTATAGTGGAGTAGAGGGGAGGT
TTTTTTATTCAAATAGAAGAAGCTAAAACTCAAATGCAATGTCAGATCTCANAATAAACT
GACCCAATTTCTGAAACCCAATAAACACATTTCATTTGTAATATTCTTTATTATATAGCT
CTATGAAAAGTAATTTGTGACTTTCGATCTTAAAAGAGAGTTTTAAAAATACACAGTAAA
TTGAAAGAAAAACTACTACATTTAAAACAGTATTTTCCTGAAAACATAGAATGAAAATGC
AAGTATTTTGTGCATGGCAGCTGTTTTTAAGGAACCAATGTTATATATGGNGAATTTTGT
GGAAGACTATGTCTCTTAAAATATTTCTTATAAAATANCATGGCTTTTTAATAGCTGGGA
ATCTGANGNNGGATTTCCCATGAAGACCTTAAATGGCTNNGCAGGAATTATAAAAAAG

Sequence 614

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGCCTGTAATCCCAGC
TGTTGGGGAAGCTGAGATGGGAGGATTGCTTGAGCCTGGGATACTGATATTGAGGCTGCA
GCGGGCCGAGAATACCACTGCACTCCAGCCTGGATGACAGAGTGAGACACTGGCTCAAAA
AAAAAAAGAAAAAGGAAGAAAAAAGTTTAAATCAATGAATGTTCTCATTTCTAATGAAAT
AATGAAACATTATTGGGAGAGTTATAGTCATAATCATCTTACTGCACTATCAATTAAAAA
ATACATCATTTTTTTAGAGCACAATATATACCATAAAGAATTATTCAAATAGTCTAAATAT
TACGATCAAATTTTTAATAGACTTTGTTACTTAAACTAAAACTGTATTAGTCTGTATTAG
TCAGCTCAAGTTGGGATTCACACCTGTAATCCCAACACCTAGGGGGGC

Sequence 615

CCGCGGTGGCGGCCGAGGTACACTGTGTAAGTGGTCAAAGATAGACATGGTTTTATTTAC
AAGGAAATTTGCTGAAGTGTAAATTATAACACGAAGAGATGGGAGGGAGGGGTAAACACC
TAAATGTCTAACAACAGAGAATGGTTCTCTGTTGATACAAAATTATGATACATCAAAAAA
GAACAACAATCAAATTCTCTGAGAATTCCCATTACAGTTAAAAGGAGCTCCCAGCCAGGT
GCGGTGGCTCACGCCTGTAATCACAGCACTTTGGGAGGCCGAGTCGGGTGGATCACGAAG

TABLE 1
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TCAAGAGATTGAGACTACCCTGGCCAACACTGTAAAACCCCGTNTCTACTAAAATACAAA
AATTAGCTGGGCCGTGG
Sequence 616
TTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACTGAATAACTGCCAATGCCA
TCTGCCTGTGGCCTTCTCAAGTTTGTCTGCACCTGTGGTTATCCTGACTTCAAACCCGGG
GAGACAGAGGCTAGAAGAGGCAGACAGCTCTTGTGTATTCTCCTGTCCAGTGCAAAGAAC
ATCTGGAACTCTGAGCCCTAACCTTAAATGCAAGACCTNATCTGCAGGTGTTCCTNATCC
TTTTAGCCCCTCAGTGATGTAAGCAACAAACGTCACCCANCTCCTGGGGCACACTTNACT
CCCAGATGAGCTTGTCCTGGATTTGCAGGGAGCCTGGCTCCC
Sequence 617
TAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCGGGGCAGGTACATCACCCTGCTGA
GGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCC
GCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGT
TCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATG
CCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGG
AGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTNTACCTGAATTTCA
CCATCACCAACCTACCATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGA
GGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGC
Sequence 618
GCCGGGCAGGTACAGATGGGGTTNCACCGTGTTAGCCAGGATGGTCTCGANTTCCTGACC
TCATNANGCATCCANCTCGGCCTCCCAAANTGCTGGAAATTACAAGGGCGTTGAGCCCAC
CCGCACCTGGGCCAGAATCTTACATATTTCTTAAACATCATTAAATATATATTGTATTTT
TTACTTTTTTTTTGAATAGGGGTCTTGCTATGTTGCCCAGGCTTGGTTTTGAACTCCTGG
CCTTNANGAGATCCTCCCGCTCTCAAACCTCTCAAAAGCAATGGGTA
Sequence 619
AGGTACCCCATTTTATGCCATAAGTCAGGTTTCTCCCTCAATAGCCCTTTGGAACTCTCA
AGGTCCAGAGTGGCATCAAACCAACTGACACATGAGTTGATACATCATGTGCTGCCAACA
GAGAAATTAGTCTGTGCCAAACTCAGCACAATCCTGCAGTTCAAACCAGAATTTCAAAAA

Sequence 620
ACCAAGATTTGAATCATGCTTTCAAAAGCTAATGTGAAGTTAGACATATTTGGTTTCATA
ATCACAGAATTTTAAAAACACCAGGTCTGCAATATTCAGAAATCACCATTAACGCTCTCT
TGACACATACAATCAATTTCACTTTAGATCGCTGATTTTCTTAACAACTGATTTAGTTAT
TTCTGAATACTGCTAGAAAATTCAAAATCTACAATTAAT
Sequence 621
AGGTACATCACCCTGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGT
CAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTG
GTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTNTTT
CTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGAC
ATCCATGTGACAGAAATGGAGTCATNAGTTTATCAACCAACAAGCAGCTCCAGCACCCAG
CACTTCTACCTGAATTTCACCATCACCAACCTACCATATTCCCAGGACAAAAGCCCAGCC
AGGCACCACCAATTACCAGAGGAACAAAAGGAAT
Sequence 622
NCCGGGCAGGTACTGGATGACAGCAAGTGCACACATCAAGAGAAAGTTACCATTCAGAGG
TGCAGTGAGTTCCCTTGTCCACAGNGGAAATCTGGAGACTGGTCAGAGGTAAGATGGGAG
GGCTGTTATTTCCCCTAGGTCATCTCTTACATTCTAGTTCTGGTGCTCTCTATCTGTTTA
AGACAAACCCTTGNGCACCTTTCTCCCACCCCTCCCTTTCTCCCTTGTCTCCCTTGAGAA
AACAACTNCAGTTCTCTGCCTGCACCATGACTGTCGATACGCGGGGGCAGTTCGGCGGTC
CCGCGGGTCTGTCTCTTGCTTCA
Sequence 623
AGGTACAAGCTGTGCACTGCAAGGTAACCACGTGGCCAGAGGCACATCCCTCCCTCACAT

TABLE 1
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ATACTGAGTGGTGTAATGCAGTCACCTTGTCATCTGGCAAGAGGTGATCGATGGACACAA
ACTCCTCCCGGAACTGCCCCTCCAGCGAGCTCACTCTGAGGTTATCTGAACTCACATAGC
TTGGGAAACCCAGCTGGGCACGGGCAACATTTGCGTAGTGACCCTTCCAGTCATCGGAGC
ACATGGTCTTCCACGAAGCAGCTGTGAACACCTGGAGCACGGCATTCTGACCACTCACCC
GGACACAGCGGTACCTGCCCGG

Sequence 624

CGGGCAGGTACTTTGCAAGACACGCCTGGCTACGAACAACATGGGACAATGGGCAGCCTC
GCTGCACTGNACAGAGGAAAGGAAAGAGGCCTTGCAGCCACTGCCTGGGAAGGAGCAGCA
CATTCTGCATTAACCAGGCATGCCTCACTCACTGCAATCCCCAAACAAGCCCAACTCTCC
GTGTTGATTATTCTTACCATACTCCACCAGAAAGCAGCATGATTTTCTGTCCTCAAATAC
TTCAGATTCCAAGAGAACTGCACCTTCTAGAGTCTCTACTGATAACCTCAGNCACTTACC
CACTTGAAGCATNAGCACACACTTAAAAAGGAAA

Sequence 625

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATTCTTCCAACCTTTCT
TCTGTGCATAATCATCTAGGTGTGGTGCTTACATTTTCTTTTGGCAGTGTTATCTTAGTA
TCTTCCAGCATGGTTTTCTCACCTGATACTGTAACCATACTTCCATATCCTCAAATGTGT
TGTTTTCTAAAATAACTTTTTTTTTCTTTTTTTAGAGACGGAGTCTCACTTGGCCAGGTG
CGGTGGTTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACGAGGT
CAGGAGTTCGATGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCCAGGTGTGGTGGC
GCACGCCTGTGATCCCAGCTACTCGGGAGGCTGACGCAGGAGAATCTCTTGAACTTGGGA
GGTGGAGGTCGCAGTGAGCCGTGATCGCGCCGCTGCACTGCAGCCTGGGTGACAGAGTGA
GACTCTGTCTCAAAAAAAAAAAAAA

Sequence 626

AGGTACGCGGGACATACTCCCTAGGTGTCTGTGAGGATGGTGGAGGGGATTTTCTCCATG
CCGGGAGGCTTCCTGGAGCAGGTGCTGCCTCTCGTGACTCTTGAAAGATGCTTGTGAATA
AAGCATACTGGGAGCTGAGCTGCTGTTTAGTAATTAAAAATCCTTTCCATTGTTTAGAGC
TCAGCACCTTTGTGCATTCATATTACGCATTCATTTTCGTATCATTGTTGAATTTCTCAC
TTCTGCTACTGCAATGTATGTCTACAGCTGACAAGTCTTCCTTGGGAGCCCTACGTAGCT
CTTTTTTTTCTTTTCTTTCTTTTTTTTTTTGAGACGGAATCTTGCTCTGTCACCCAGGCT
GGAGTGCAGTGGCGCAATCTCGGCTCACTGTAAGCTCCACCTCCCGGGTTCACGCCATTC
TCCTGCCTCAGCCTCTTGAGTAGCTGGGACTACAGGGTGCCCACCACCACGCCTGGNTAC
TTTTTTTTGGTAT

Sequence 627

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTCTGCCATGAAGGT
TCTGGGGTGGAGAGGGAAGCAATGTATATCCTACCCATGGTGATTGGTCCGATGGAAGTC
ACATCCTGATGGGAAAAAAGGACTGAGCCAGAGTGGACTGTCTAAACCAAAATGGGATAA
ACAAGCATGGCATGGAGCCAAAACAAATGGCTAAGTCAGAGGTCCTAATGCAGAAGGCTG
GACAACTAGGATGGTGGGGAAAGACATGAGCTTGAAGGACTTCCCAAGATAAAGCAGAAC
TAACCAGAAGAGCCTGTTATAGATTCATATTGGGGGAGTTTGGGGGGTTTGTGCAGGGTG
CATCAAAAAGCACTCGCATGGAATAAACATATCTTGCACAGGAACATATGACAGGTAATT
GAATAGTTTGATTTGAACTATGTAAAGACATGATCCTGATGGTAGAAGGATGGTACCTGC
CCG

Sequence 628

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTT
TTGGGACCGAGTCTCACTCTGTCGCCAGGCTAGAGTGCCATGGCGCAATCTTGGTTCACT
GCAACCTCCACCTGCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGA
TTACAGGCCCTNACCACCACGCCCAGCTAATTTTTGTATTTAGNAAAGATGGGGTTTCAC
TGTGTTGGCCAGGCTGGTCTCGATCTTTTGACCTTGAAACTTTNACATAAACTTTCACAT
TTCCATGACAAAGTTTTAGCAGTAACTTCCAAATTGGTCTTATTCAACTCCAACATTAAA
CTTTGTATGTACCTGCCCG

Sequence 629

TABLE 1
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CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGATCC
AGGATGTGATGGGATCTTAGGGCTTGGCTGGAAGGTTTCTCCAGTCAGCCATCTAGCAGA
GCTGCAGATCTGGGCTGGGCTGTTGGCTAAAGTGCTCTTCACAGACACCTCATTCGGCTC
TTCCTTCAGCTTCTTCACTTATTTCTTACTCAGTCACTACTCAGCTCCTTGTCCATGTGT
CCTTGAAGCCATCCTAGGTCTTATTCTGATTCTGAATTCTTCAGTCACCCATAAGCTTCT
CCTTACCCCGGGAGTCAGTGGGTGTGTGTTCCCAGGTGGACTTAACCATTCTTCTCCTTT
ATGATCCTTTCCCTTGGGTGGACAAGTGTGATTTGGTTGTAAGGCCATTTTTCAAGTTGC
CTATACATTGATAAAAGAAATCCCACTAACGGAAGTAGACTGCATGCCAAATTTCAGTGT
CTTTCTCCAGGGGCCAAGGTTGGACCCANAAGTGCATGGG

Sequence 630

CCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTATTGCTTCCTGGGAGAGCTGACCATGA
GTCAATTGGCCCACAATAANTTATNAAATGAAAACCGGCCATCATCTGCATCTTATGAGT
GCACGTCATCAGAGATGTCCACTCCAGTTACAAGAAAGTCCTGAGGGCTTTCTTGGAGCC
TGANGGGCGCTGGAGGTGAGACCTGGAGGTGAGCAGGAGTTAACTAGGATGAGGGACNGG
CGCAGCATACAGGAAAAGCTGCCTGGGGGAGAAAGGACCAACAGCAAAGACTGAGAAAAA
AATGCTGTTGTGACCAGGGTTCAGAGCGGGCATGGAGGACTGAGGGTTCAGAGCGGGCAT
GGAGGACTGAGGGTTCAGAGCGGGCATGGAGGACTGAGGGTTCAGAGCGGGCATGGAGG

Sequence 631

CCGGGCAGGGTACTAAGGACAAAAAGACATTTATTCTCTTTGACCCTTGCTGCCAGNACA
GAAAATGACTTCACCCAAGGACACAGCACTTGCGGGTGGCCTTCTCCACCTCCAGCTATT
GCTTGGTTTCAGGTGACCACTCCCTTTCTCTTCTCAGGCCTATGGGTGGTAACAAGCTCC
CATCCACTGCTAGTCTTAGACATCTTTACTTTCCTTGATTGATNCCCTTGACTCTGCCCA
CATCTTTTAAAATATCCCATATTAAACTTTTTACACCCCTTTGAATGTGTCCTGCTTCCT
GCTGGGACCATGACTAGTCTCTTCTAGTNGGAATCCATATCACCTTCTGTGATGTAGTCT
CCAAGTCAGGCAGNCTCATTTCAACTACAGNCTTTCTTTATGCTTCTCTTTTTCCTTTCT
GGACTCTTACCTTTCTTTTATTTCTTACTCAGCAACAGTGTCTGCCCATTAAAATGCACC
TTTGCGGNGGNGGTTNGGGTATCTTTATCTCTCTTATTTCTTCCTTNCTGGTGCATTTTC
ACTGGCATTGCATGGGAATTTTGGTT

Sequence 632

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGACATACTCCC
TAGGTGTCTGTGAGGATGGTGGAGGGGATTTTCTCCATGCCGGGAGGCTTCCTGGAGCAG
GTGCTGCCTCTCGTGACTCTTGAAAGATGCTTGTGAATAAAGCATACTGGGAGCTGAGCT
GCTGTTTAGTAATTAAAAATCCTTTCCATTGTTTAGAGCTCAGCACCTTTGTGCATTCAT
ATTACGCATTCATTTTCGTATCATTGTTGAATTTCTCACTTCTGCTACTGCAATGTATGT
CTACAGCTGACAAGTCTTCCTTGGGAGCCCTACGTAGCTCTTTTTTTTCTTTTCTTTCTT
TTTTTTTTTGAGACGGAATCTTGCTCTGTCACCCAGGCTGGAGTGCAGTGGCGCAATCTC
GGCTCACTGTAAGCTCCACCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCTTGAGT
AGCTGGGACTACAGGTGCCCACCACCACCCCTGGCTACTTTTTT

Sequence 633

GCCGAGGTACTTCCCTGAGCAGTCGAAGTGGATGCCCAGACCAATGGCCAGNGCTAATAT
NCAANGCAATGATCCCAATGACGATGATTGGAAAAAACTTCAATGGCAGCAGTGACAGGA
TCTGTGCAGCAACAGCATCTGCATCTGGTGCAACAGGACTTATTTTCAAATCATCAAGGC
CAAAAAGCGATCGGAATGAGAAGGGGGCTTCAACAGCAGGCGGATCATTTTCCCCCATGG
TGACTATTTCAGGACCTCTGACATCCGGCTCCGCCTCCACCTCTACCTCATAATTCCCGA
GTCCCAAAAATGTAGATGGCACCACGGAAGAGATAGTAGGCCACAGTGTTACTGGCTTCC
CATAAACACAGCCCTTTCCTGGCTCACACGGGCATGACCTAATTAAGAACCCCCGCGTAC
CTGCCCGGGCGGC

Sequence 634

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAAGTGA
AATCCCTAAGTCAAACTGTGGCTTATAAGCAGAAATCCTGGTTAGTATTTCAAAGTTCTC
TTAGCGTTTTCTCCTGCGACTTAAAAGACTTAAAAACGTGAAAAGACATGGACGTAAGAC

TABLE 1
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TCCAAACAAAAATACATTTCTTTGAAACTAAATAGCTCTTAAGTAAGAAAAATTTCTATA
GATCTTCAAATCATCCCCTAAGCAAAATATTCTCTAATTAAGTATTTCTGTATTTCCATC
TATGTTCTTCCCAGGCTTGGGGCTGTTGATCAGACCTATTTTTAGGGGTAAGTTTCTAGG
GGTCATAGAAGATACAGATTTTGACCTGCTTAATGTCAAGAGGTTGCACGGTTGATTTGT
CCAGTTGTGAATTCTATGAATGAAGCTTTTTGCTTAAATAAAACGATATTCCCCTCTGGC
TGCTGTGAGCACCGGGAGACTTGTTTCGGCAGTGCCTGGGTGCTGGGGCAGGGCCCG
Sequence 635
TGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGGAGTAAAATAAAAGGGTCG
GATTTTGTAGGATTCTAAGGAAGAGGCAGTGTGCTCTGTCCACAGGCTGCAAGGTGAGAA
CCTAAAAGAATGAGATATATTCCCATTTTGGAATGGCAATCAAAAAGAGGATCTCTCTGT
CAAGTCTTTACATTAATGCTGAGTAACAATCTCAAAAGCCTGCCCATTCCCCTTTAGACA
CATGTGGCAAAAGCAGAACTGAAGGAATGGCCAAGGGGCTTGAACAAGTAGAGAGACCGA
CAGTCTTTCAAATTTCAGGGAACCCCAGATACATTTTGGGGGAGCCACTGTTTTCCCATT
TTCCTGAAAAGTTCTTGCAGGTATAAGAAATAGGAATAGAAATTGAATAGGTTCTGGAGC
CAGGGCTACAAAGGCCCCAGCTCTGATCTGTTAGACTGAAAACCACACATCAGATGAAAT
TATATNCACAAAAAGGAGAGTCCTTAAAAACAGCCATTTCGGTCCCT
Sequence 636
AAGAGCACGTATAGCATGGGGGAAAGAACCTAAATGTCTCTCTGTCCTGTGAGCTGGTGA
AAAACCCAGCATGAGAACGCAGTGTCAGGTGTGGGACTCCTTCTGCCCCTGCAGTGGGTG
TTACGGGCGGTGTGCCCTGGCGAGCAAGCTTTGATTCTTGGTTCTTTGAGCTCGTTTCAG
AGGCTGAGTCCCCACATCAGCTTTAGTTCTTGGACTTCCCTGTATTAAGCAAGAATTAGG
AGAATGGCTGTCCCTGCAGGCGCCTCCCGTAAATCCTGAGCTCTCTGGCGCAATCTGAAA
CTTCTCTTCTGTTTTCTTTGGCTGTATCAGCCGAACCAGGAGAGGCC
Sequence 637
CCGGGCAGGTACCAGGAGAGATCTGAGACANGGTATGAAGTAAAAGATTTAAGATTGGAA
GTGGAGAGTGTCATGGACCAGTGCCTTTCGGATGGGTGACTTCTGGAATTCTTGTTAGGC
ACAGCGGAGGTTGGTCCTGTGGGAAAGGAAGAATATTTCCGGGGTGAGGAGACTTCGGGG
TGTGGGCCGGGTGCCTTTTTAAATTTGGAATGGTGTATACAATAGGGAAAGGATGTTAAC
TTTGCAGCAGCGGGGATGGTGAATATAACCTGATAGGGACCCTTCCATTTTGTTGGAAAG
GGGAGGAGGGGTGTGCTACCCAGACCCAGTCTCCTGGNTGTAAGGGTAAGAAAGTGAATT
GGGAAGAATCCTCAGG
Sequence 638
CCGGGCAGGTACCTGGACTCCTAAGCCTCAGGGATTTACTGAAACACCATTCTATTTTAT
AATAATCCTTAACCAAGAATTTTAAGGATCTTAAATTTTTCTGTGGTTCTATTGTTATCT
GATATATAGATGATCTGCTGCCATATCCTAAAGAGCAGATGAGGCCGGGTGTAGTGGCTC
ACGCCTGTAATCCCAGCACTTTGGGAGGCAGACGAAGGTGGATCACCTAAGGTCAGGAGT
TTGAGACCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGC
TGGGTGTGGTGGTGGGCACCTGTAATCCCAGCTACTAGGAAGGATGAGGCAGGAGAATCA
CTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCTGA
Sequence 639
AGGTACCACTTAACAAGGGTTCTCAGCTGTGNGGNCACTGGACCACTGGGATATGCTGAG
CTATTGCTTAAACACTGACTTAAATAAAACAAATATTTTAAATAATGAGAATGCTACTGT
AATTAGAAGGCAATCATTTCAAAGTCTANATGGAGGCCAGGGGCGGTGGCTCATGCCTGT
AATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATCACATGAGGTCAGGAGTTTGAGACC
AGCCTGGCCAGTATGGTGAAACTCCATCTCTACTAAAAATACAAAAATTAGCCAGGCGTG
GTGGTGTGCACCTGTAATCCACTGAGGCAGGAGAATCACTTGAACCCGGGAAGTGGAGGT
TACAGTTGAGCTGAGATAGCACCACT
Sequence 640
AGGTACAAAGGTTCAGTGGTGAGAAGAGGGAGCAAGGCCTTTGGAATAATGAACTCCAGT
TGTTCCTCATAGGTGCAGCAGAAATAGCGAGAGGTCAGGATTATGGAGATTGGTAAGGCG
AGATCATCCAAGGGCCTTTTGCTTGGTAAGCCATTTTACTTTAATCTTGAGTGCCATAGG

TABLE 1

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GATTCATTGACGGATTGATACAGGGAAATGAAATGATTTTTTTTTTTTTTTGGTTGGGGGA
GACAAGAGTCTTGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCACAACGTCGGTTCACTGC
AGTGTCTGCCTCCCAGGTTCAAGCAATTCTCATGCCTCAGCCTACCTTGTAGCTGGGATT
ACAGGTGCACACCACCACACCCAGCTATTTTTTA

Sequence 641

AGGTACAAAGGTTCAGTGGTGAGAAGAGGGAGCANGGCCTTTGGAATAATGAACTCCAGT
TGTTCCTCATAGGTGCAGCAGAAATAGCGAGAGGTCAGGATTATGGAGATTGGTAAGGCG
AGATCATCCAAGGGCCTTTTGCTTGGTAAGCCATTTTACTTTAATCTTGAGTGCCATAGG
GATTCATTGACGGATTGATACAGGGAAATGAAATGATTTTTTTTTTTTTTTGGTTGGGGGA
GACAAGAGTCTTGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCACAACGTCGGTTCACTGC
AGTGTCTGCCTCCCAGGTTCAAGCAATTCTCATGCCTCAGCCTACCTTGTAGCTGGGATT
ACAGGTGCACACCACCACACCCAGCTATTTTTTATAT

Sequence 642

AGGTACCTCGTTTCTGAGGATCAANACCTNAGNGACCGNGTGTGTGTGTGTGTATTTGTG
TGTGTGTGAGTCCTATTTGGGCCCCGCCTTTCAGCCCTGTCTTGCAGC

Sequence 643

AGGTACTTTCAATTTCTGTGGGATAAACTCCAGCTCCAGTTTCAGAACCCACTCTAATTG
GTTTAAGCCAGGAAAGGGAGAGGGACATGTTGCTGGGAGGCCCCCATCTGGGGCCTGAGC
TTGGAATCAAATCAGAGGAAGGCAACACATGTAAAGTGCTGAGAGTGGAAGGATGAAGAG
AGCTAGGGCTTTGTGCCATCACTCGTGCTCTGGACATAAGTGGAGCTGGGATTCAGCATT
ACCTGCCCCTGTACCTGCCC

Sequence 644

CGGGCAGGTACTAGTCCAGGTGTGAGATGAAGGGGGCCTGGATGAAGCAGAGGGTGAGAG
ACAAGGAAGATTCTGAGGACCTTGTGGCTAGATGTGGGGGTTAAGTCAGGTTCAACTCCT
AGGCTGGATGAATTGGCAGATGGCACATGAACTACAAGAGAATGGAAGGCAGAACCTATT
TTGTGGGCAAAAAATAAATTACATTTTGCAATACTGAATTGAGGGGCTTCTTGGAAGTCC
AGGTGTAGATGTCTTACAAAAATAGAATATTCTGGGCTGGGTGCAGTGGCTCACCCCTGT
AATCCCAGCACTTTGGGAGGCCAAGGTAGGGGGATCACCTGAGGTCAGGAGTTCGAGACC
AGCCTG

Sequence 645

GGNCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCAC
CAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGA
CCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCT
GGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCA
ACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACC
ATATTCCCAGGACAAAGCCCAGCCAGGCACC

Sequence 646

CCGGGCAGGTACAGGGGCTTGGGGGCTTGGCCAGGCTCTTCTCCATCCATGCCACGGGGC
TGACAGCCACAGATCTGGAAGCTCAGGCCTAGGAGTGCAGGCTCCGTTAAGCCCTGTGTC
CAACATCCTGACTCCTAGGGGTGCCCAAGATTTGAGTGGCCACTTTCACCTCTGGAGGAA
GTAATACCTAAGGCGCTGATAGAAATAGAACTTCCGCTGCCAGGCAAGGTGGCTCACACC
TGTAATCCTAGCACTTTGGGCAGCCTCAACGCAGGTGGATCACTTGAGGTCAGGAGTTCG
AGACTAGCCTGGCCCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTA

Sequence 647

AGGTACNTGTTTCAGTCACTGGGCTGANNTGGNNCACAGCACAACCTTCATAGCCACTGT
ATGAAGAAGTANAAGACCCAGACTCTTGCTTTATGTTGGTATCAAAAGTCATTTCAGAGT
CAGGCTGATCACTCCCAAGTAACCCACTGACTTCTTTACTCCAGCTCTCTGTCTGCTGNT
GACTCANAANGTNACACTTNATTTTCTCCATTGCTGATATAATCATATCTGCAACATAAA
AGTGGGCATTTTCCTTTTCTACATCAACAGGCAGCACAAATACCTCTGGTGAGAAGGAAT
TCNAAGAAATGGTTNTTCTACTGACTTGAACAGCACCTTCATCAGCAGCAGATGTCAGAT
GGGAAGGC

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Sequence 648
CCGGGCAGGTACCACTAGATTGCCTCCCTGTGCCTGGGCAATTTCAGAAAATGGTGGTTT
TCCTTTCGTTTCCATCTTTTTTAAGACTTAAAAAGTATCTGCTCTCATTTTCTCCTAGCG
GCCTCCATGCCTTGACTCAAAAAATGCTGTCTTAGTTGACAGCCTTGAAATGAGTATGAC
CCTAGCTCTAGTTGGGTGGAAATCACCTCGCATAGAAATAGACCTGGAGGGCCGGGCACG
GTGGCTCACTCCTATAATCCCAGCACTTTGGGAGGCCCAGGTGGGTGGATCCCGAGGTCA
GGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAAAAAAAAAA
AAA
Sequence 649
AGGTACTAGTATGAAGGAAATAATATCCACACACTGATACTGGTCCAGCNGAAACCAAGA
CCGCTCCTGGTGCATTAACTTTTAACAGAGCANGGACTCANTTCTCTGAAAATAGTGCCA
TAAAACATGTGCTCCCAGAAGAATAAATATTTGGCTTGCTAGAATTTCTGCNGCTTTTNT
GTAAAAGTTGATTATTCGGTATTAAAGAGGAGTATCAAATATGNGTNNATGNANNAAAAA
CTTGGAAANAGTANNGGACCNNGGCTTATCTCNTCATTTTCATTCTGCACACTNCAANTC
ANTCNTTTTCCCATCTTNNTTCCCNTCTCTGNAATTTATCACCCTCCCCCTCT
Sequence 650
GGCGATGGACTCCACCGCGGTGGCGGCCGAGGTACTTACCACAGAGAAAAGCCAATAATC
ACAATATATGTTGTCTTACTGACCCATAACCCATTTTCTGAGGGTGGCAGGCATTGTGCC
CCCACTGTGAGGTGGGACTATATACATATACAAAGGAGGTGTTTAACTGGGTGGCATGTC
TCAGGGAGATGTAANGACTTACCTGCATATCCTGGCAGTNTTGAAATGATAGTGAACTGT
TCNTANGGCNTCCNCTTGATGGCATAGNCNAAACACCAGNATTTTCTTGGNAGAATGATT
CGGNAAATGCTACATAGAAGAAATGGNTGGTGAGCTNTTACTGTGACTGTGCCCATAGTA
AGTCATCCTGGACCCTCTGAATCTTATCCCAC
Sequence 651
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGTTTTTTTTTTTTTTTTTTTT
TTTTTATGATATTCATCTATGAACCAATTTAATTTTAATTTAAAAATGACTTCTGATCTG
GCAGATGATTTGGGTTCTAGAAAGAAATTGTGCCAGGCATGGNGGCTCATGCCTGTAATC
CCAGCACTTTGGGAGGCTGAGGNGGGAGAAACCTGTNAGCTCAGGAATTGGAGACCAACC
CTGGNAACGTAACAAGACTTNTTTTTTACAATATTAATAATAAAAAAAGGCCAGGTGCCG
GNGGTTCACACCTGTAATCCCAGCACTTTGGGAGGCCACCAGACAGGTGGATCATNAGGT
CAGGAGTTCGAGACCAGCCTGGCCAACGTGGGGAAACCCTGCCTNTACTAAAAACACAAA
AATTATCTTTGCTTTGNTGGCGGGAGGCTNTAATCCAGCTTCTAGGGAGGTTGAGGCAGG
AAAATCNCTTGAATCTTGAAAGCAAAANTTNCAATNAGCCCNGGTCACACCATTTGCCTT
CCAANCTGGGCAACAAGAGCCAAATTTTNTTNAAAAAAAAAAAAAAAAGGGCCGGCCTTGG
GGGTNNTCCCNGGAACCCCACNCNTTNTGAGGCCCCACCGGTGGTNNTAGGGNCNGAGTT
CAAAACNNCCTTCCACTTTTNGAACCCGTTTTTTAAATTCCAAAAATTNCTGGCTGGATA
AATCCGNAGCCCCTTCTTGNGGGTGNGGNNGGANTNTTTCCCNCAANNGGGGGTGGGTNA
NNNCCGAAANCCCTTATTTCCCCTNTGNAAAGGGNCTTTTCNAAAAAAAAAAAANA
Sequence 652
CCCGCGGTGGCGGCCCGCCCGGGCAGGTACAGGTAAGGCAGAAGGAAGGAAGGGCAAAGA
AACAATTCCAGGGCCCTGGTTTCTGGGATGACAGGCTTCCCAACACTCATGCCAGGACTA
TTTTCCACCTCGGTTCACTATGGGTTTTTTTTCTTTTTTTTTAATATAATGAATTTTTAA
AATGTGTGTTTGTTGCCCAGATTATTCCANAAAGAGTTGAAGGGAGGAAAGGNGTGCNTG
GGGTGCNTGGGANTTTTANCCCTCTNTCCACCCNGATTTCTAAGTTGGGGGGGGCATCCA
AACAGCTTCACCCANGTGCCCAGGCTNTTTTTTGNTNTCCAAAGCCAACCCTTCCAGGGC
ANGGANGGGTGAAGNTTAGGAGGGCAAAGGTTAGCCTGGAGGCTGCAATTAACAAGAATC
AAANTGGGGTTTAAGGATTCTCACACCCAGTTTGCTAATTTCAGCTGGTCCTTGTAGAGG
TGACACCTAGTAGGACAACATGGNTTTTNGGGCAGGGCTGGGGTGCTGGTCTCTGCTTTC
TAGGGTAGAAAGGAATCATACATTGAAAATGCTTAAATCGATGGAATGATTTATGTTCCT
NATCTTTCATCTTTTTCTGNGTGGCTGGTTTTCTGCCANCCTTACTTGGACAAGCACCAT
TCTANACCTTTTCTNTAGGCATNTCCNAGAANGNGAAGTNGAAAGGAAGAAAAAAAACTT

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ATTTTTTNNGNCCAAAAATTNGGCAAAAAAAAA

Sequence 653

TCCACCGCGGTGGCGGCCCGAGGTACGCGGGGGCCCTTCTATCTCAGGATGTTTGCACTT
GCTATTTCCTTTTCTTAAAGGCTCATCCCTAGATATTTGCATGACTGGCTTCCTAATTTN
NTGTAAGCTTTTGCTGAGAAGTTACTTTACCAACTGTCATTGAGGTTTTCCCTGAACATC
TTAGGTAAGATAACAAGCTCCCCTCCTTTTCTTTCCTCACTTCTTGGTATTCCTTATCTC
GTAACTTTTTTTTTNGGGGGGATNGANACTTNCGTNTTGNTTTTGTTGGCCAAGCTTGGA
GTGCANNGGGTGCANTCTTGGCTTNACTGAAACCTCCACCTCCCGGGTTTAAAGCGATTC
TTCTGCCTTNAGCCTNCCGAGTAGCTGGGACTACGGGCAAGTGCCACCACACCCAGCTAA
TTTTTTGTATTTTTAAGTAGAGGTGGGGTTCACTGTGTTAGGATGGTCTCTATCTCCTGA
CCTTTTGGGCCACCCACCTCGGCCTCCAAAGTGCTGGGATTATAGGTGTGAGCCAGTGCN
CCCGGCCTCTCATAATTTTCTTAAATT

Sequence 654

CNAATTGGAGCTCCCCGCGGTGGCGGTCAGTTNGTCTTAGAGATACCCATGAGGTCACCT
ACTCAAAATGGGGCTCAGAGTAGCCTTGTCCCATTCTTGTCCAGTGGGCGCAGCTACAGT
CTNNCTGGNNNGGAGTGACTGGAGGCTGTCCCCACGTCCCACTTCAGTGAGGCATTCATG
TGCACCCAGCACACTTTCTAGCTTTATTTGCCTGGAGGGGAAGATTCTCCAGAACCTTGT
TAAGATGCACAGNGNGGGCCCTTGGACTGGCAAGTGTGGCCTTNGGCAGTCCCTNGGAGC
TTGTTAGGAATGCAAAATNTTAAGCTTCTTCCTACTGNATCTAAAGGTTGANTTTAAACA
AGATCCAGCTTGTTTCGTTTCACATGAAAGTTGAGGCACACTGCTCTAGAAAGTTCTTTT
ATCTTTACTGGCCCACCAAAGTAATCAAACTTTGNGAAGTACCCTCGGNCCGCTCTAGAA
CTAGTG

Sequence 655

GCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGATATGAAGTGAGGTTAAGTCAGA
TGGAATGGCAGTGGACTACTGTTTTTGGTTAATAAATCGAGATACCCTTAAGAGTTGTGN
NCTGAACATACTGTCTTTCTTTCCCCAGTTCCATGTCACAGCACCTGCCTAATAATAGGT
GCTCGAAAAACATCTGTTGAATGAAATGAATTCTTTTGTTTGCAGTAGGGCAAAGAAGGG
TAGAGAGGAACNACTTTGCCAAGCTGATNTGTAAATGTTGCAAAAGGGTTTNGGCCAGAA
AATTCCNANAACCCATTNGAGAGGCAATACATGTTAAGGGACCTNTAAGATGTTTCACAA
CCTTGGAAATAATTAAAAAGAACTTTCTACTGNTTTACTTATTTCCCACTCCTGGCTGCC
CCTCTTGGGTGGACTGCCTNCTGTTGGAGGGAATACTGNGTGAGACACATCTTTTAGTAA
AACAGAAATGTGAAACCAACTTGCAGAAATCACAAGCACACTGTTACCAAATAGGTCTTG
ACTGGCTCCCTTNCTGGGGGACAAATGTTTTGATAATGTCTGTCAGTAGATTCAGTTCCC
TATTTCTTTTTAAGACTTGATATTTAAGAATACTGGTTCTTTTTTGGCCAGCATCGCAAN
GAAGTTTTTCTTTAACTTTTGGGCCAAAAAAAAAAAAAAA

Sequence 656

CGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAGGATGTTTTCCTAAATTTTAAGT
CAAATTCTTCCTTGACACATACCTATTTTTATTTTGTTTTGGTTCTCATCTCTGTGAACA
GAGCAAAGCATGCAACCATTGTAACACTTTCATTTGTTTTTATAAACTCAAGTTCTAGAG
TTGGATTTCATGATTTGCATAACTCGGCATAGTGTAAGTGCTTGTAGTTTTAAACAGAAA
AAGAGGGAAGAAATGACNATTCCANAAAAAAAGATCAAATCTTATGACTGTAATTTATTA
AGGNATCCAATGGAATTCTTTCCCTTTTTCTTTCTTTTTTTTTTTTTTAAAGAGACAAGC
TCAAGTTCCATAAGCTGGGAATGCAGTATCATGATCCATAGTTCACAGCAGCCTTCAACT
CCCTGGGGTTCAAGGNGATCCTAAGAACTTGNGGGCCTCAAGCAGTCCTCCTGCCTCAGC
CTGCCAAAGTGCTGGGGATTACAAAGCATGAGCCACTGCTCCTAATTCTTAAGAGATA

Sequence 657

GAATTGGAGCTCCCCGCGGTGGCGGCCGGGCGCGGTGGCTCATGCCTGTGGTCCCAGAAC
TTTGGGAAGCCGAGGCGGGCGGATCACGAGGTCAGGAGATCAGGACCATCCTGGCTAACA
CGGTGAAGCCCCGTCTCTACTGAAAATGGAAAAAATTGGCCGGACCGTGGTGGCGGGCGC
CTGTGGTCCCAGGTGGCTGGATACACGGGTGTGCACCACCATACTGGCTGATTCTTGTAT
TTTTGGTAGAGATGGGGNTTTGGCCNNGTTGGTCCAGCTGATCTTGAACTCCTGCACCTG

TABLE 1

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CCTNGGCCTTCCAAAGTGTTGGGATTACCGGTGTGAGACACTGGCCCCTGGCTATATTTT
ACTATTTGGAAATCACAATGCATCTTAAAATTGATGGCTTCTTGCAACCACTTTCAACCA
GGTGCCTGTCATGATTTAAGTGCTAGCATCAAGGCAGGTTAGTTATGAAGAAATAGAGTG
TGTGTTTATATACTCACACAGTTAGAAATCGACCCTTTTAAAAATTATTTCTTTTTGAAA
A

Sequence 658

AGCTCCCCGCGGTGGCGGCCCGCCCGGGCNGGTACCGCGGGATATGAAGTGAGGTTAAGT
CAGATGGAATGGCAGTGGACTACTGTTTTTGGTTAATAAATCGAGATACCCTTAAGAGTT
GTGTTCTGAACATACTGTCTTTCTTTCCCCAGTTCCATGTCACAGCACCTGCCTAATAAT
AGGTGCTCGAAAAACATCTGTTGAATGAAATGAATTCTTTTGTTTGCAGTAGGGCAAAGA
AGGGTAGAGAGAAANCAACCTNGCACAAGCTGNTTGTTNAATGTTGCAAAAGGTTTAGGC
CAAGAAAANTTCNAAAACCCATTNGAAAAGCATACATGTTTAGTGGAACCTTGAAAATGT
TTTCACAACCTTGGGAAATAATTTAAAAGTAACTTCTACTGGTTTTACTTATTTCCCACT
CCTGGCTGCCCCTCTTGGGGTGGGACTGCCTCCTGTTGGGAGGGGAATACTGTGTGAGGA
CACATCTTTTAGTAAAACAGAAATGTGAAACCNACTTTGCAGAAATCACAAGCACACTGT
TNCCAATTAGCTTGACTGGCTTCCTTNCTGGGGGGACAAATGTTTNGATAATGTCTGTCA
GTAGATTCAGTTCCCCTATTTCTTTTTAAGACTGATATTTAANAATACTGTTTCTTTTTT
GCCACCTCGCANTGGAAGTTTTNTTTACTTTTGGCCAAAAAAAAAA

Sequence 659

CCGCGGTGGCGGCCGAGGTACTGGTAAAGGGATAGTCACATAGATCAATGAAAAAGAACA
GAGAATCTGTGAACAGACCATGCAAATATGCCTGCCTGGTTTTTCACAACAGTGCAAAAG
CAACTCAGCCAACAAAAGACAGCTTTTGGCCAGGCCGCAGTGGCTCACTCCTGTAATCCC
AGCACTTTGGGAGGCCCGAGGCGGGTGGATCAACGAGGTCAGGAGATCAAAGACCATCCT
GGCTAATATGATAAAACCCCCGTCTCTACTAAAAAAACACACACCCCAAATTGCCCGGTG
TGGTGGCAGGTGCCTTTNGTCCCAACTNCTTTGGGANGGTTAAGCAAGGGANAATGGCNT
TGAACCCGGAANGGAAANCTTTGCCNTGGGGCCCANATTTNNNCCCNTTNNNCTTCANCT
TTGGGTGNANAAAAANCNGGACTTGGTTTCAAAAAAAAAAAAA

Sequence 660

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTGAAGGTGAGCTTTGAA
GATGCAACATGAATTTGACAGTANAGATGTAGGGAGGAAGGAAGGCAGGACAGGTCAGAC
AGAAGTGCAGGAACAGCCCAGGCCTTTGCAGCCTTCCCACACCCCCTACAAGACCTGCC

Sequence 661

ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCANGGTACGCGGGGACT
TGACTTAAACTCTGGGGCCCGGGAGGCCGCCGGTTTTCTCCCCGCTTGCCGGGGTGGTCC
TCTTCCCTTTGTCGGACCAAAGAAGTAAACACTGTGTGGAGAGGGACTGACGTGTTTGGA
GGGAAATGGGAATGTACCT

Sequence 662

AGGTACTCCAAGCTCTGAGACCACCTCTTCTGCAAAGCCTTCCTGATTCTGCAAAGAACA
GGTAGGCATTTCATCCTTGGGACCTCACAGCAATTCAGGACACATTTGTGTCCCAGCCCT
GCTTGGCTTGGCTGTCTCCATGAATATACACTTTGTAACTTCTGCACCAGGCATCATACC
AAGCACACAGTAGGCACTCCTGTGTTTTTTGAATAAGTGACTATATCATCACCACATTTC
AAATGCGGAATATATGAGCTACTAGAAAAGACATAAGGGTAGATTTTACATCTTTATTGT
ATCCTAGATATACAAGTCTATTACTGCCTTTTCCCATGTTCTGTCAACATAGCATAAAGA
ATGTGGATTTACCTGTTAGAAATTGAATAAGCGGCCGCTCTAGAACTAGTG

Sequence 663

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGTTACACGGCAATTT
TNTTAATAACTCCCTTTACTATGTCAGACAAGCTATGTCAAGCGTCTTCTGTATCCTNTA
CGGGGAAAAAAAAAAAAGTTAACCAGAGCCAAATGCTTGCTTTCAAAGATAACTTGCCATC
CTGAAAATATAATTTTTACAATTCAATAACACCTTTTTGAAAAATAAAATAATNTGGCAA
AAATGCCCATGCATTAACAAACCATTTTTTCAGTTTAATCTCTTTATATGTTCAACTTTG
ATGTATTTTAAATAAACAAAGCAAAATTCAACTAAAAATACAATCTGGATTCCATAGCCA

TABLE 1
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ANGGTTTTATTTACAATTCCTANTAGGAAGGCTTTATTTTTAGCTNTCAAATGGGGNNGG
ACCTATAAGGGAAATTTAAACCGTTTNCNTTGAGTTTTTNTNTTTNAAGGGGAANGGGGG
AGGANTTCCCAAAATGGGGAAAGGGGAAAAAAAGGGGGNAANNCCNTTTTGGCCTTTTNN
GGNANTTTTAAAAAAAAANTTTNCCCCCCCGNGNCCCCCAAAAAAAAAANNAANNTTTTT
TTNAAAAAAAAAAAA
Sequence 664
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGCAGGTACTGCTGGTTTTCTGGT
GTTCCTACAAGCTGCCTAGGTCTCTTTTGTTCTCAGCAGTTCCCAGGCATGCAAAAGTTG
CCAGTTCTGTCAGCATTCCAAGTCAGGTAAGACAGAAAGCCATCTCTTAGGCAGTCCCCA
GAAAAGCTGAAAGGTTGGATATACTTTCTACTCTTCTCTTTTCTTCATGAGAGAAAGGCC
ATGTGGGCATTTTCTCCCAATAACACTGAGTTCTGTTGTCTTCTGTCGGCTGTGCTGCAG
GTTCTCAGGTGCTGCAGTTAGCTGCT
Sequence 665
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGTAAGATTTCCTGAAGGGATCCATAGCC
AAAACATGTTTGAAGGCCACTGGGCTCGCTAACTTCTAAAAGCACCCCAGTTCTAGCAGA
CATCCTAAGGAACATTCCCAGGAAAATTCCAGCCTAGAACCTCCTGGGGTCTGACAACCT
TAGAGAACAGTGCTGGCTTTGAATGGGCTTGGGGGCAGCCTCGAAACCCTCTTTCCAGTC
TCCATGCAGGCAGGGGAGCTCCTTAAGCAACACATAGGACATTTCTGGGAGAAATGGGAT
CCCCAACACAATGAACACTATAGATTTTAATGGTCTATATGGTTAAATACACAAGGCCCC
TCATTTCCAACCCCGCCTGTTCATCTGATTCATCTGTACCTCGGC
Sequence 666
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCAGACATTCCCCCAGTGGCT
GAAGTGGCATATGAATTATGAAGTTGGATCATTTGGAATGAATGTAAGAGAATTGCCAAG
GGCTCCTCCTACTCCAGAGAGGAAACCTCATCCAGGGCCATGAAGCCACTTCCTCACCAT
CTGTGTGCTGCTTAAGCTAATGCTGCGGGAACCATGGTTCCTTGGGAGGAATCAAGCTGA
CTCTTGGCATGAGATTCCTGCCTTCCTAGGGTTGAGAGCGGCACTGCCATGGCTTCTCTG
GACGACCCAGGGGAAGTGAGGGAGGGCTTCCTCTGCCCTCTGTGCCTGAAGGATCTGCAG
TCTTTCTATCAGCTTCACTCACATTACGAGGAAGAACACTCAGGGGAAGGACCGTGATGT
CAAAGGGCAAATTAAAAGTAAGAGGCGAGGACCTTGCCTACCCCCTGCTTGTCGTTGAGA
GCTTTAACTCACNGGATAGTTCTTATCACTTTTGGTGGTGGCACAGGNATATGATAATTA
GTAGTAGCCAACAGATGACTAGTNGTTGTCATGTGCCAAGCGTTTTAAAAGTTNCCTGTT
ATTAATTTCATTA
Sequence 667
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGAAGAG
AAAGCGTGAGGGCTGGGCCTGCGGCGGGCTTTAGGGAGTGGTCCCTGGCTGTGGATAGAT
CTGCTGATGAGTCCAGGCCCCGGTCCATTCTCCTCGCGCTGCAAGGATGCTCCTGGGATT
TCGGAGAGGCCGCAGGAGTCATTTCAAACACATCATCCATGGCCTTTTACCTGCAGCCAG
CGTTGCTCCGAAGGCAGCTGTGCCACGCACACCTCCTCCCCGCAGCCCCAACCCATCTCC
AGAGAGACCAAGATCTGCTCTGGCAGCAGCCATTCTGGCGACAACATTGAC
Sequence 668
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGATAGGAGAGGGAGGAGGG
CTGGCAGCTGAGTAGCCAGAATCAGGCAGACGGTGGTAGCAGAAGTCAGAGGCCGAGGGA
ATCAGGGAAAGGAGTTCAACCATGGAGGACCTTGCTGGCCAGGTTAGAGACTGTGGACTT
TTGTCTGGGTGAGACAGGAAGTCACTGGAGGGCTGTGACAGAGCTCTGAGGCTGTGAGGC
ACTGCTCTGTCAGTGCCATGAGTGGGGAAAACAGGAGCTTGCTGCACTGGTAGAGACCAC
AGATAATGATGACTTGGACAGAGCAGCTGGGAGAGAACTAGTTCAATAACCCTAACACGC
CTCTCCATTCTGCATTTTCCCTAAAAATGTACCTGCCCG
Sequence 669
CCGCGGTGGCGGCCGAGGTACCTGCCCTATCTTGCTGAATGTTTTATAATCTAATAAAAC
TCAGATAAAGACCCAGATGTCACACCTGAACAGGAAAAGCTGAAAGGAAAAGATAATTAA
AATATAAATCAACAGAATCAAGATTTTGAAAAGACCTAGAAAACTTGAAGGATTACTGAA

TABLE 1

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GCCAAGCAAGAGGAAATGATAGGATTAAAAGTAAAATCTTGTGTTTAGATTTTTTTTTTT
TTTTTCAAACGGAGTCTCGCTCTGTCACCAGGCTGGAGTGCAATGGCGCAATCTTGGCTC
ACTGCAATCTCCATCTCCGGGCTCAAGCAATCCTCCCACCTCAGCCTCCCTAGTAGCTGG
GACCACAGGCATGCGCCACACGCCTGGATAATTTAAAATATATACATATTTTTGTAGAGA
CAGGGTGCTGCTTTATTGCCCAGGCTAGTCTCAAACTCCTGGCTTCAAGGCATCCTCCTG
CCCCAGCTTTCCAAAGTGCTGGGATTACTGGTGTGAGCCACTGTGCCGGGACATAAATAG
TTATGCTGTATTGGTTAAGGAATAATGACA

Sequence 670

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGGTCATGCCCGTGTGAGCCAGGAAA
GGGCTGTGTTTATGGGAAGCCAGTAACACTGTGGCCTACTATCTCTTCCGTGGTGCCATC
TACATTTTTGGGACTCGGGAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTCAGAGG
TCCTGAAATAGTCACCATGGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCCTTCTCATT
CCGATCGCTTTTTGGCCTTGATGATTTGAAAATAAGTCCTGTTGCACCAGATGCAGATGC
TGTTGCTGCACAGATCCTGTCACTGCTGCCATTGAAGTTTTTTCCAATCATCGTCAT

Sequence 671

CCGCGGTGGCGGCCGAGGTACAAGGAAGGCCTTAAAGACTGCCCCACTCTCCTTGTTTCC
CATCCCCTGTCCCTTCTACTTCTCACATTCACCACTATGTGCCCTAGGACAAAATCAAAT
GTGGAAACATTTGGTCATGTCTACTTTGTCCAAGGGTGGGAGTTCTTGAGGAATTCAAGT
GGGAACTAGAACAACTTTCTACCCTTTCCTTCCCTTCCTTCCTCCCCACCTCTACCTAGA
AGCCCATCAATCACTTTGAACTTCTTGGAGAAAAAAGGAAACAAAAGAAAAAGAAAAGGA
GAGGCTGGGTGCGGTGGCTCATGCCTATAATCCCAGCACATTGGGAGGCCAAGGTGGGTG
GATCACTTGAGGTCAGGAGTCGAGACCAGCCTGGCCAAAATGGTGAAAACATGTCTCTAC
TAAAAATACAAAAATTCGCTGGGTGTGGTGGTGGGTG

Sequence 672

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGACACTGGTGGGG
GAGAGTCCGACGCGCCTGGCTAGGAGCGCCGACCGCAGGGCCTCTACGGACCTTACTAGA
AAAATGAAACCTGATGAAACTCCTATGTTTGACCCAAGTCTACTCAAAGAAGTGGACTGG
AGTCAGAATACAGCTACATTTTCTCCAGCCATTTCCCCAACACATCCTGGAGAAGGCTTG
GTTTTGAGGCTTCATGCCAGAAAGGGGAATGGGGAATGGCTGCTTAACGGCATGTNTTTT
TT

Sequence 673

CGCGGTGGCGGCCGGCCGGGCAGGTACACGATGAAACGGGGGTAAGGAAGGAGAAGAAAA
ACATTGAAAGGCATTTGACAGGGTAAGGTTGTATTCCCCAGACAACCCTGTCAAGCAGCT
CTGAAGGGATGATGAGCCTGGACTCTCTGGACTCCTAGATTATGAACTCCTGCAGTGGAC
CATGTCCTATTTTTTGGAGGCGTTGGGGGGAATTGTCTTACGCAGCACCCAAGCACACTG
CTATGCAATGGACCACAGATAGGAAGCAAGCACTGCATTTGGCTCCCCCGCGTACCT

Sequence 674

CCGCGGTGGCGGCCGAGGTACTAAATCATTAATTCATCCTGAGCTAGTGGCTTTATTAAT
GAGTATCTCACAAATACCACAAAAATTCAACCTGGCCATGTGGAGCAATATAAAATTATG
GCATTTCTTGGTATGTTTTTCTCTTTGGCGAGGAGACAACTTGATCTTGTGTTTCCAGAA
GCATGTTAATTTGCCCTGCTTGCAGAATCTCTCTGGCTTGAAAGGAGATTATATTCATGG
CAGTCTGTGAATTTTCATTTTATTTCATTTATTTATTTGAAGACAAGAGTCTCACTCCAG
CCTGGGTGACAAGAGCAAGACTCCCGTCTCAAAT

Sequence 675

ATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGGAGGTACCATGAGGGGAGA
ACCGGCAAGGGGTGCCATTCTAGCATCTGGGTGGGAGAGAGGAGGCTGAATGCCAGGGGA
AACTTCTTGGAAAAAGTGATGCTGAGTTAGGACAATTTAGTCAATGAGAAGGGATCTGGC
TGTTCCTGGCAGTGGAGACAACATNTTTAAAGGCATGGGAGAATATCTAAAATTTACCCT

Sequence 676

AGATAATAACATCTGATATCCACATGGGGTCTGGAGGNGCAAGCCACCTTCCTTTCATCC

TABLE 1
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CACGGTCTCACAGCAGCCCTGGAAAGAGGCTGCTCTCTGTTGGAGGCTAAGGGCCAGTGT
TGGAAGGAGCTCGGGTGGAAAGTGTGGTCTGCATGAGGGGCTCCCGTGAATAGAGGAGAG
GGGTGGCNGGTACCTGCCCG

Sequence 677

TACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCANGGTACCTGCCTC
TGCCAGATACCCCTGAGGGAAGAGGATGTTCTATAACCAGGCCGACAGGTTAGCATTTGT
GAACACAGTTCTGACGTTGTTGGGAGGGTTTGTTTGCCAGAAACATCCCCATGCGCTACT
CTTTCAACCAGAGGTCAAGAAGTCCTTTACTTTTGTGTCTTTTTTGTTTGTTTGTTTGAG
ACGGAGTTTCACTCTTGTTGCCCAGGCTGGAGTGCAATGGCGCAATCTCGGCTTACCACA
ACCTCTGCCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATCA
CAGGTGCCCACCACCACGCCTGCTAATTTTCATACCCGCGTACCTCGGCC

Sequence 678

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTGTGGTATTTCA
CATAATATTAACCAGCTGTTAGCAATGACTGATATATACTTCCCATTGAAAATGATGTAA
GGTCTGAAAGGATTCATTTTGACAATTTTATATCACATATTTATATTTACCTTAGGTGGT
TCTTTTTAATGTTTTAATTTGGGACCACACTAATTTCTAACTTGGTAACTCATCTCTTAC
CAAAATTAATACCAAGCCAAGAAAAATGGTTTCATGAATAGAATCTACTAGTCTTTTATA
TCTTATAATGGTAGATCACTGATGAGGTAGAACTCCATAAGAGCTTCNCTCTCACAGTNA
AAGGTTTTGGTTGTGCATGGATTACACCTGGTGAAAGTTGGTTAGTATTTGTCTAAGTGG
CTTAAGACAAATTTATTTTGATTTGTATTGTGAATGACTTTGCGAANCACCCAGAATTTT
TNCCGCTTCGTGTGTNGTGTGTGTGTGTGTT

Sequence 679

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCAGGTACCCACATAATAGCTC
AGTGCATGCAATTTACAAAGTAATAAGTGAAATGCTCCCCATAGTTGACTATAACATTTC
CTCATTTTTCTCTGAATTTGCTTTTTAAAAAACTCTTCCCCTTGCCATTCCCTTCCCCAT
TCCAGATTGTAACTGCTTCTTTCCAGCTGCATCAGAAGAAGGGGACTTTCCATGTAGGTG
TTATTCTCAGAAAAGGCCAGAAAAGACCAGGTCATGGTGGGGATGATTTGCTCCAAGCAT
AAAAGAGAATTGTGATGGTTCAGGAAGACTGGAAAATAACGAGACTGGAAAGAAATGAGA
AGGGCTTCAGAGGAATGGCACATTGAAATAAAAGGGAAGTGGTAAGAACAGGAACCCAAG
NGGAATGAANGGGCNCACAGTGGCAGGGATGATTGGATAGACTGTGGAATAAAAATAATT
TG

Sequence 680

AGGTACAAACTGGCTTCTTCTCTTTGTCACCAGCACCTGCTTCATAGTCTCTCTGGAGTG
CCAGGAACGGGTCATTTAGATTAAATCTCCCATACCGTTCCTGGATAAATACCTCCTTCC
TGCGAGCCCGCAGGGCCTCGATGACAAGGTCTCTGGCCTCCAGCTCCCCTTCCATCACGC
TGAGGAGCATCCGCAGCTCGGATTTACTGAGAGTATCCACATCAAACTCTTTTTTCAGTT
TTACAAGTGGAAATTAAGCAGTCCTCCTCCCCGTTTCTCCTTCCATTGCCAGGCTCAGCT
CCTCTCACCCCAAGTACCTGCCCG

Sequence 681

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGTGGAAAGTGAGGTGGTTT
TATTTCTAGTTCACCATTGTCCTTAGGCTGTATAGACCTCTGGAATCCCAGCTTATGTGG
AGAAGGTATCCTGTTAGACTTCCCTCCTTTGGTCAGCACTGGGCCTTAACTTCTGGCCCC
TCAAAGCTGCTAAAACTGAAGGCCAGGCTTGCCTGGCTTGGCAAAGGACGTCGGGCAGAA
GCAGCTTCTCCTCTCCTCTTGTTTCTCTGTTTCCCCTCACCATAGGCTTTGGCCTGGGAG
TTTTCCTACA

Sequence 682

CCGCCCGGGCAGGTACCTTCTTGGTTGCTGTGACTGTCTGCTAGCACTAAGACTGTCTTA
AGCAGATAGAGGGCAATGGTCTTTGAAGGCAAATGACAAAGCGTGGCCCTGAGCTCCCTG
ACTGAGTTCATTTGGACTCTCAAGGGATGCCCTGGAGCTAGACTCGATCTGAGTGGTTGG
ACTAACTCCTCTTTGTTTTTGTATTGAAGAGCCAGCTTACCCCGCCATTTNTAAACCTCA
GGCCAGGAAAACCAAAAAACAAAAAAACCCAACCCAAACAAAAAACAAACCCCACCTTCT

TABLE 1
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TNAGAANTNAGTAANCTTAAGGCTTNAAGAATCAACAGNGCCCCTTTGGGNATTAAGGGC
CATT
Sequence 683
CCGCGGTGGCGGCCCGAGGTACTATAAAATACTATCCTAACTTTTTATGTGTTTTTTTAA
CTTGTTTTTTAGAAGTTTTGTAGCGGTTTTTAAAAATGATGTATTTATAACTGGTTAGGA
TGCTAATATCTGTATCTTTTACTCTATAACCTAATTTTTACATTTTCAGAAAAAAATTTT
TACAACAATGTAAAAAATACATGGCCCGGGTGCGGTGGCTCACGCCTGTAATCCCAGCAC
TTTGGGAGGCCGAGGCGGGTGGATCACCTGAGGTAAGGAGTTAGAGACCAGCCTGGCCAA
CATGGTGAAACCCCGTCTCTACTAAAAGTATAAAAATTAGCTGGGCATGGTGGCAGGCGC
CTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGAGGCAAA
GGTTGCAGTGAGCCCAAGATCCGCGCCATTGCACTTCTAGCCAGGGAGAGAAGAGCCGAG
ACTTCATCTTAAAAAAAAAAAAAAAAAAAAAGGTC
Sequence 684
CGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACTCTGGCCCTGGCTTTATTT
TTAGATTTTCCTTTCCCGGTTGATATCGGAAGGCACAGAGGCAGGAGGTGGGGTGGATAG
TAATGTGTGCCCCCTTGGGGGTNANAGTGAGGTGGAGGGGGATGTTAATNACCATGAGAG
GCAGAGGGTCAGNCNANTTTCCANNGCTTCNNGCTTCCTTTAAATGANGGAAAACACGTG
CANGTNTTAGGAGACAAAGGAAGGGAANTGACTGTTTCCTGGCCTGGTNTGTGGGCCCAG
TNGNCTGNTNCNTTCAGTGNCTNCGTGCANTTNGACTNTACACNTANGNNGGCAGGCATA
GGTGTNCGGTTNTGAAAGACNGNNNTCTTTNCACATTCTCTNCTGCTCTAGGGACTGAC
Sequence 685
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTAGTAGAACTCTA
GGAACTGACCAAACCCTTTTAACAACCAGGGGAGTGCTTGATGAAGGAAGAGGCTACCGA
TCTTTCATAAGTATGAATAAGCAGCATGCATAAACCAATTACCTTCCCCTATTCCTCACA
ACCACCACCACCACACCCACCACCTCTTGTGGCAGTGGGGATAGCAGCCCATGTTCCTGG
AGTTGCTAACCGGTGCCAGGAGGGACAGTAGGGATCATGTCCTTCAAAATTTAGGGTTGT
ACCT
Sequence 686
CCGCGGTGGCATGCATCAAGGTGACAGGTGACGGCATGGTTATGGATTAACTCACCAAGG
AAATGAGTGTGGAAAGAAGAATGCANAAATCTGAGGACTAGAGCCTGGAGATGGGGAGCT
TCGAGCTCAGAGGAAGAAGAGGATCTTCATCACGGGGAGACATCAGCCTTCTGAGTATCT
GGGACTGCAGGTTATGTGCCACCACACTCGGCTAATTAAAAAAAATTTTCTTAGAGACAG
GGTCTCTCTACGTTGCCCAGGCTGGTCTCAAACTCCTGGGCTCAAGTGATCCTCCTGCCT
CAGCCTTCCAATGCCTTGGGCTT
Sequence 687
ATGCATCAAGGTGACAGGTGACGGCATGGTTATGGATTAACTCACCAAGGAAATGAGTGT
GGAAAGAAGAATGCAAAANTCTGAGGACTAGAGCCTGGAGATGGGGAGCTTCGAGCTCAG
AGGAAGAAGAGGATCTTCATCACGGGGAGACATCAGCCCTTCTGAGTATCTGGGACTGCA
GGTTATGTGCCACCACACTCGGCTAATNAAAAAAAATTTTCTTAGAGACCAGGGTCTCTC
TACCGTTGCCCAGGCTGGTCTCAAACTCCCTGGGGCTTCAAAGTGAATCCCTCCCTNGCC
CTCAGCCCTTCCAAATGCCCTTGGGGGCTTACAGGCCATTGGAGCCCCACCATGTGCAAA
NGAAAAGAANAGCAATTTTTGGACATCCTGCCCAAAACAAACAAAGGTTTGGGCAATGGG
TCCTGGTCAAGCAAAAACAAGTGGGGTTTGGNGGAATAAACCAACCCTTGGGTTAAAAAT
AA
Sequence 688
NGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAGACT
TGAAAGGTCACGTAGCTGANACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAA
AGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCT
TGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCCTCTGA
GCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGG
Sequence 689

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CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGATACTCATTAGAGTTGCTCGGTGG
AGATGGAATGATGGTGGGGTGCAGTTAAACATGGCTGAGTGCTTTCTGCTTAAGGACCTG
ATGTATTAATGCTCTCCAGGTCATTCATATTTGGGGGAAGGAACAAAGAGGGTACCT
Sequence 690
CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCTATGAATCTCACA
GATGTAATAATGAGTTAAAGAAGCTAGGCACAAAAGAATATTACTGTATGATTCCAATCA
TATAAAGTTCAAACCAGATCAAACTAATCAATGAACGAGGAGTCAGGATTCTGGTTATAT
TCAGGGATAGTGATGGAAGAGGGCTATAAGGAGGGTGTCTGGGTGCAGGTCATGTTCTAG
ATCTTGATCTGAGTGGGGGTTACATAGGTGTATTCACTTCATGAGAATTCAGAGGGCTGC
ACACTAATGATCTGTATAATGCTCCTCTATAGTATGTCACACTTCAAAAAAGTTTACAGA
AACAGTTCCTTCCTAATTTTCACAGGGCCTAAGAGCTAAAAACGCAGCCCCAG
Sequence 691
NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGG
AAGACTTGAAAGGTCGCGTAGCTGAGACTTCAGGAGAGACCATTCAAGGCTTCTGGCTCT
TGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGA
CTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTC
CTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGG
ACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTCTTC
TGTCCCGCTGGAACCCATGGTCCACTGAAAGTTCCTTATGCTACTTTCACTGAGCATCCT
ATGAAATACACCAAGTGAGAAATTCCTTGAAATTTGCAAGGT
Sequence 692
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CTCGAGCAATCTGCCCACCTCGGCCTCCCAAGGNGCTGGGATTACAAGCATGACCTGCCG
NGCTGGCTAAAGTTTCTTATTTATACTTACTCATTCCTCTAATATCTGGATTTCCTTAGT
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GTAGCACTCCCTGGGGACCAATTTCGAAGGATGCTGAGTCATATGGTTTTTGGTTTTGAG
AGGGTTGAAAATGGAGACTCAACTCAATTTAGGAGCTATCCCATCATAACTAGTAGCAAA
ACACGTCACTACTTGAGTCTCAACAAAAGACAAAAAAGGTTTNAAAGTTGGGGAACAAAT
AGCTGCCAAGGGTTNTTNTTNTNTGACAAAAACATTGNGTTGGGGATTTAAAATCNATGT
GAATCCTTAATCCCTAACTCATCCATGTTGGGGTTTTTT
Sequence 693
CCNCGAATTGGAGCTCCCCGCGGTGGCCGCCCGGGCANGGTACCTGCTTNCCAGAAGTGT
TATCATGATTAAATGACAGACCAGTGGCAGTAGCATCTCCTGAGGGAGGGTTAGAAATGC
ATATTCTCAGGCACCACTGCAGTCTTGCTGAATCTGAAGCTTTGGGGATGGGACCCGGTA
GTCTTTTTGGATAACTCTGCCAAGNGGTTCCAATGTGCTCAAGTTTGAGAGTTGCTGAAT
TAAAGCGCTGGGTCTTGCCAGGCATACCTGTAATTCCAGCTCTTTGGGAGGCTGAGGTGG
AAGGATTGCTTGAGCCCAGGAGTTCGAGACCAGCCTGGGTAACATAGCAAGATCCTATCT
CTACCAAAAAAAAAAAAAAAAAGTACCT
Sequence 694
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGGTCTCTGTCTTTAC
AGCTGAAGCATCAGAGGATGGAGTGACCAGGCTGGTTCCAATGACAGTTATACGGCCATG
GGGAGTANACATGGAGTCTAATTCAGTGCTTGAGGCTAAGAATGAAGTTGTATGCATTGT
GGAAATTGTTCCAGGAGATCTTGCAACTTTCAAGTTTGAAGTCATGTCTGTGACAGTCCA
GGAATNTGATGCAGCTGTGGAAGACCAGGTGGAAGGGTGTTCTGTAGAAGTTGTGCGCCT
CTCTGTGGCCGGGGTGCTGTCCATGGTACCT
Sequence 695
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACATGTATCANG
GAAAAGAAAACGTTATTTGTCCCACAGATGCTGCTAGGAGCAGCTACCCCAAGACAGGCC
TTGCACCTTGGGTCATGACAATGCGTGGCTACTGAGAGCTGTTGACAGAGTGGACAGGGC
CCAGACCAGGACAGTCTCTCTAGAGGTCTTCACCTCCTCAACCGTAACTTAATCAGCCCC

TABLE 1

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ATGCCGGGCTAGCCCCATGCCACAAAGGCTCAGAAATGCCCTGCAACATGTGGGACACCT
GGTAGTATCTACATAGGGGCCAGCATCCATCCCAGCTGCTGGGGGTGGCTCAAGAGCTGT
GAGGGACACCCTTTCCTGCCTGATACCGTGGACCAGTTTGCAAAGAGCTGACTGTCCTGC
TAGGCCCA

Sequence 696

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTT
TTTTTGTATATTTAGTAGAGATGGGGTTTTACCATGTTGGTCAGTCTGGTCTCGAACGGN
TGACCTCAAGTGATCCGCCCACCTTGGCCTCCCAAAGNGCTAGGATTACAGGCATCAGCC
ACTGTGCCCAGCCAGCCCTATGCTTTTAAGAGTTCGATGGTTGAAAGAGACTGAGCGGGG
AAGGTAGAGCGGGGCAGGGGAGGGACTACTTGGAGTCAAGTCAAAGTTTTAGGGAAAGAC
CTGAATCTGAAAAAGATTATTTAACCTTTATGTGTCTGAAATACTATATTGTGCGAATTG
TACCT

Sequence 697

CCGCGGTGGCGGCCGCCCGGGCAGGTACACAAACACGACAGAAGCCCACGGAGCAAGCCC
TGTGCTGGCCCCTTCACATGACTTTAGGCCCTCTAGCAAGGTGATGTTTATTTACAGGGT
TGCATAAACAAGGCCTCACCATTCAAAAAACCTTGTATTCTATTACATGTTTCACATTAA
CAAAGACTGGAAATTCTNTAGGAAAGGGATCTTTTTTATCTACATGAAAAGCACAGGCTA
GTAAAGACTTGTTGAAAAAGTTGAAAGAACATAAATGTATATGGTATATGCCACATAGCA
TAATGGAGGAAGATAGCAAATAGGAAACATATTGGTGAGGAAGACTGGAGTTTGATGATC
TAGTCAGGAAAACATCAAGTTAAATCCTTTACTTTACACCTAAACCATAAACTGGTGAAT
AAAACAAGTATGTGAAAGCACAANANGAGAGAGGACAGGCCGGGCGCAGTGGCTCACGCC
TGTAATCCTACACTTTGGGAG

Sequence 698

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCCTATGCAGNCATNC
TGTNAGNACCCATTCCATTNTNCTATCCCTGGNTNGCTGGTGTCAATACTNTNAAGCGAN
TTACTGCNGGNGCTCTNNTTTTTCCCTCANAGATACCNNGTTGATTTCTTTGATTCTCTC
CATCTCTACAGGCATAATAACTCCTAATATTTAAAAACNCTGTAGAGGGATGNANNGAAG
CTGNGGNGAGAGCCCNTGGGCTTTTCNCNTGGGTNAAGATGCACATTCCTGAAAATTNTG
GGCCTTGGCTTAAGCTGNACTAGNGCCGGCCACTCAGCTGATCTCACTAGCGTCACCTGT
CGCAATGGTGCTGAAGCGCACTNCCNAGAGGCCATAAGGCAAAGCGAGAGTNCNTGGCTA
TNGACTGGANCCCATTTAAGCAAAAAAACATGCCTCNCGNANGACAAATTCNATCAACAA
AGGGNGGGCAATACAGGATCTGTACCTGCCCGGGCGGNNCGGGCANGAACCTTTTTTTTT
TTTT

Sequence 699

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCAGCCCGCCACCCGGCTT
GTGTGTCATCCTGGGCCCAGGCAGGTGATGATGCCAAACACAAGGCCCAGCTATGTAACC
AAGTAAAAACTTTCATCAGAATGCCCATCTTTGTGACCCACAGCCCATTGTCAAGAGCCT
TCCCTGTGCCAGGAGTTCAGCAGGTTCACCTCCGCCTCCACTAGTCACTAAGACACGGAT
ATTTTAAGAATTAAAAGCCTCCACAAGCCAGGCACAATGGCTTACACCTATAATCCCACA
ACTTTGGGAGGCCAAGGTGGGAGGATCACTTGAGCCAACGAGTTCGAGACCAGCCTGGGC
AACATAGCGAGACCTTGTCTCTACAAAAAAATTTAAAAGTTAGCCAAGCATGGTGGGGCA
TGTCTATAGTCCTAACTACTTGGG

Sequence 700

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTCAGTAGAGGCCAGGTTTCACC
ACGCTGGCCAGGCTGGTCCTGATCCCCCGGCCCCAGGTGATCCGTCCACCTCAGCCTCCC
AAAGTGCTGGGATTACAGGCGTGAGCCACCGCACCCGGCTCTTTTTTTTTTTTTTTTAAAA
TCATGATTTTAACAGAAGCCTCCATTCAAGGCGAGACATGCCTTTTATTTCTCTAATTGC
GAGACACTTTTCTGAATCCTCTTGTCAGTTGCACCTTTTAATACAATTGAGGTGACACTG
TTCTTCATGGTGACACTGGTCTTTCCCAAGAGGTTTCAGCTAATTCAGTCTATCAGATTT
TACATCAGATTTTAAAATTTGCTTCAAACTTGGGTGCTTGTATTCAAATTCATGCTTCAT
AGAAAAATGCATATCAAGTTCAACAGTTGACTAACTGCAGCCACGTTCACAGTACCTGCC

TABLE 1
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CGGCGGCCGCTCTAGAACTA
Sequence 701
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAAAAGGCTGATACACAC
TGACAGATTTTGTAACAAGGGACATTTAAAACTGAGCTGGTAATAGACTTGATTTCTGGT
GTTGCCACTCAATAGGCATGACTAAATAGTGTACCTCACTGTTCTACTTTTTATAATTAA
AATTTTAGAGGAAGCTGAGTTCTTGTATTTAACTACAAGTTAGAGACTCAGCCCACAAGC
TTTTTTTTTTTTTTTTTTAATATGGTTTCTTTTTTTTTTTTTTGAGACGGAGCCTTGCTNTG
TCACCCAGGCTGGAGTGTAGTGGCGCGTCTNTGCTCACTGCAATCTCTGCCTTCCCGGTC
CAAGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACCGGCGTGCACCACCACG
CCCAACTAATTTTAGTATTTTTAGTAGAGACGGGGTTTCCCCATGTTGGTCAGGCTGGTC
TTGAACTCCTGACCTTGTGAACTGCCCACCTTGGCCTCCCAAAAACGCTGGGGTTACAGG
CGTGAGCAACCATGCCCAGCCTTTTTTTTTTTTTTTATTT
Sequence 702
AGGTACGCGGGATATATNTAAATTTAAGAAANCATCCCCGGTAATATGGCTCTTCATAAT
TCTAAGACTAAGGCTGGNGTAGAAACCTAACCACCTACCTTACAAGNGAAGGGGGCTATA
CCATGGGGTAAGCCAAGTTTGAAATTTATGGGGAATCNTACCCAACTTGGNTTAAGGGGG
CCCTNGGATTTGGCCTNGGGGGCCAAGNNTTTTCTGTATTTTTTATAAAAGGTGATCTTN
CATNGGTATTCCCTTGGTTTACCTTGGATAAGGGGGGATTACCAATGCCTTCTTAAGGAA
AAAAATTCACCTTATTTGGGCCTTGGGGGGAAGGTAGGGTNGGGCTTCAATAGCCCTTGG
TAAATTCTCCCAAGCCACTTTNGGGGAAGGAAGGGCCTGGANNGTTTTGCCGCCCCACTT
ACCACTTCCCAAGCCCTTGGGGGGTGGAACCAAGAAGTGGGAAGGAACCTCTTGGCCCCT
CAATATNNAAAAAAAAATNAGAAAGGNAANATTNCACCTATTCTTACCANAACCCCTAAG
NACCTAATTTTTAAAAAAATACCAAAAAGAATTGGCCCTNGTTTNTCAAAAACCACCTAA
TTTGGGAAATAAAANAANGGGGTGGAAGAATTATTTTCTTTAACCCNNATNGGAATAAAA
ATNNATNNNATTNGGGGNTCCCTTGGCCCCNGGGCCGGGCCCGCTTCTAAAAACNTAAGN
GGGGATCC
Sequence 703
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGNCGGGGCAGGTACTACTGACTTACCTGCC
ATGGGCTTTCTCAAGACAAGTCCTGCAGGAGAGGCACACTCACTTCTAGCGTCAACTATT
GAACCAGCCACTGCCTTCACTCCTCATCTCTCAGCAGCAGTGGTCACTGGATCCAGTGCT
ACATCAGAAGCCAGTCTTCTCACTACGAGTGAAAGCAAAGCCATTCATTCTTNACCACAG
ACCCCAACTACACCCACCTCTGGAGCAAACTGGGAAACTTCAGCTACTCCTGAGAGCCTT
TTGGTAGTCACTGAGACTTCAGACACAACACTTACCTNAAAGATTTTGGTCACAGATACC
ATCTTGTTTTCAACTGTGTCCACNCCACCTTCTAAATTTCCAAGTACCT
Sequence 704
CCGCGGTGGCGGCCGAGGTACTGTGAAAGAACTAGCACTTTGAGCAGAGAACAAATGCCT
TACTTGAGTTTCCCCTGGACTCTATCCCTATTCAAAGATGCTTGGTTATACCTCAAGAGG
GAAGCAATCCAGACCAACTCCTATGACATGACAGGCACTCAAGCCTGATGAGGCAGAAAC
CTGGCAGCTGTAGATGTTGGAAAGGATAATTTATGTGTTCAAGTGACTAGGATTCTAAGG
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TGGTCTACTTTTCTCTGTAGGCAAGTTCATTCATTCTTAGGCAAGTTCTCTGCATGTGGC
AGCAATGATGGACACTGGAATCTCTGGGTATTCAGAGTTCTTTCAGTAGCAG
Sequence 705
CGGGCGGGTACCTTACCACCCCATCCCCAGAGCATTGCATGGGGTGTTTGGCACACAGTA
GGTGCTCAATGTAAACGTGTGCACTGTGGCATGTTAGAGCCAGACAGGATCTCATCCAGC
CCGTTCTCTGCACCCCTCCCTCCCCTCTCCAAGTAGCCCTGCTGTGGGTTCAAGTAAAGA
GGGGCTGGGGCGCTGGTCTGATTGTGTGGGTGATTTGGGGAGATCTCTTCCTCTTCCGGA
ACCCCAAANGGTTGGGACAAACACAGCAACAAGCCCAGCTCCCTGAATTTCAGTGATTCA
TTTGTGGGATAAAGGAGTGAATGATAAAGTGAAGGACGACTGTCCCCGCGTACCT
Sequence 706
NGGTTAANTGCCGCCNCTTGGCCGTAATCATTGGGNCATTAAGCCTGGTTTTCCCTNGTG

TABLE 1

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TGAAAAAATTTGTTATCCCGCTCCACAATTTCNCACACCAAACATTACCGAAACCCGGGA
AGNCAATAAAAAANTGGTAAAAAGCCCTTGGGGGGGTGGCCCTTAAATGAAGGTGGAAGC
CTAAACCTCAACAATTTAAATNTTGGCGGTTGCGGCTCAACTTGGCCCCCGCCTTTTTNC
CAAGANGCGGGGGAAAAA

Sequence 707

GGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAACATCCATGGCAGACGCTATT
CTTTCCCTCTTAGAGATGCAGACACTGAGGCTCAGAGAAGTTGTCCCGCACCCAGTATGT
GATGGAGAGGTAGAGGGTAAAAACATCAACTGAAGGATTTAGCATTTGGGGAAGAAGGAA
GAAGCCCAAAATGGAGTAGATCAAAGGCTCCCCCGTGAACAAATTTAAAATTAAGGAGAA
AGAAGCAGAATTCAGTCTTCTCCACACCCATAACCAAACAGCTCCTATGAAGGCACCAAG
CCTGACGCTCATCCCAATAAAAAGGAACGATCTGGAGAGAGGGGCAGCCGCTGGTGACAA
GAGAACCCCCCAGGCAGCCTCGTCATCTGGCCAG

Sequence 708

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTGGGGGACAGATATCATAT
AGGGGATTCATGTCAGTGACCAAACGAAGTGACCATTACAGCCCTTTNGAAACCTGAGGT
GTAATTTTTAAAAATGAACTCATGACTTTAATAGTCATAGACTCAAACCTGAGTTGATTA
TTATGAATTAGTTTATGGGAGTCTCAATATGTGAATATGATGGAGACAAGTTTTGGAATA
CAGATAAATCAAGTCACTGTATTCACTCTCTCTCTCTCTCTTTGAATAGCCTTATCTTTG
CCTATACACACAAACAGTGCAGCCATCAAAATTTTCAATTTACAAAATGTTCACAGTCAT
GCTTCTTCCTTGACTAAACACTGGGGTTGCTGCCAGTGGTAATTGGCTTGAAACCAGCTA
ATTTTTATATATCTATTTAGTCTGGATATTCTAGATGAGTGGGCACTATAGT

Sequence 709

ATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCCACGTTTTGCTCCCACTCCTT
GACCGCAGGGGCTCGGACACAAACCCCTGTCACCAGGAGAGTCAGTCAGCACTACTTGGG
AGGGCTAAAGGGAAATTTGGAAATAAAATTCCAAAGTTTGGAGTAAAAAAATTCAAGTGT
TGATTTTATATTCTTTCCCTTTCTGACACAGCCTAAAGCGTAGGGGGAACATGTGTTTAT
CTGTGGGAGATAAACAAGATGGAGTCCCAAAGACTTTAACAAAATATTTTTTTAAAAATC
CACTAGAATAGAAAATACATTATTTAGATATACTTTATGCTGAGAGTGAGTATATATGCT
TGTCCTATTTAAACTTGTGAGAAAAAGTGGTATCCCTTGATACATTTAGAAATATGGGGG
CTATCTTGGTTCATTGNGGGGGGTGGGGGCAGAAGGAGAATAAATGCAGGATGCCCTTGT
TGAAAGGAATCTTAGCATGGCCCACAGGGGACGTTTCCAGTCGATTACCAAGGAATGCCA
GCCT

Sequence 710

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCCACGTTTTGCTCC
ACACTCCTTGACCGCAGGGGCTCGGACACAAACCCCTGTCACCAGGAGAGTCAGTCAGCA
CTACTTGGGAGGGCTAAAGGGAAATTTGGAAATAAAATTCCAAAGTTTGGAGTAAAAAAA
TTCAAGTGTTGATTTTATATTCTTTCCCTTTCTGACACAGCCTAAAGCGTAGGGGGAACA
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TTAAAAATCCACTAGAATAGAAAATACATTATTTAGATATACTTTATGCTGAGAGTGAGT
ATATATGCTTGTCCTATTTAAACTTGTGAGAAAAAGTGGTATCCCTTGATACATTTAGAA
ATATGGGGGCTATCTTGTTTCATTGTGGGGGTGGGGCAGAAGG

Sequence 711

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGACGGTGAGCCGGAG
GAGTCATGTCAGAGGGGCGAGCAGGAGCGATTCCGTCGCCAAACAGGTTATGAGTGCCAG
TGAGCCGCCTTAGATAGAAGCATCGTCAGCACTTTATTAATGATGGATAGNGAGAATAAA
CCCGAAAATGACGAGGATGAAAAGATAAACAAAGAAGCACAAGACTTGACAAAGCTTTCA
TCCCATAATGAAGACGGTGGGCCTGTATCTGATGTGATAGCAAGTTTCCCTGAGAATTCT
ATGGGCAAAAGAGGTTTTTCAGAATCATCGAACTCTGATAGTGTTGTTATAGGAGAAGA

Sequence 712

NCCCGCNGTGGCGGCCGAGGTACTCTTATGAGAGGAACATTAAAATTTGCAATTATAATG
CAAAGAAACAGGAGACGATCGTGAGAATAAGCAATGTCACACACATTTCTCTCCAAACTA

TABLE 1
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TATGTATCTTGTCCTTTAAATTCTTTGACGTGTGTGTGGGGCCTGGGTGGGGGGTGTGGG
TGTGTGGTGTTCTAAGGGCCTTTTCTACTAATTCCAATAACTGGGTTATCTGTGAGGCTG
CTTATTCTCACTGTATTTTACTGCTTCTTTGCCTTTCTTGTTTTTTTTTTTAACCATACT
CAGGTATGGTTAAAATGTAAATGAAAGAA
Sequence 713
CCGCGGTGGCGGCCGCCCGAGCAGGTACTGGGGCTGCACAGGCTGTGGCAACACTGGCTA
GTCAAAGCCTGGAAAGACCTGTGAGCTTGAACTCTTCTGGGTTGCCATTGTTCTGTTGGT
TTCAGCAGTGAGACTGAGAGAGCCTGTTCTGTTTAGAAAAGCCACAGTGGTTTTCTAGGT
AAAGTCTGCAGGAGATGTCACTTGGTGCCTTTTCAATACGAGTTTTCCACCTGCATTTTT
GGAACCATTATGGGCCTTTTAAAAATTTATTAATAAGTCTCTTAAATATTTTATAATCTA
GCTTCTGAGACAAGATGATTTTAAAACAGTTATATGCTCTAAATTAAAAATTTA
Sequence 714
AGGTACCGTGTGAGCAGGTGGCGTTCACCAGGGGTGAGACTTTATTGACAGTAAGTTGCC
TCTGCCAAAAAACGCCCTCATATGTCTGCTGATGTTTGAATTNCNNCCNNATGGCAGGAG
GTTTTTTGGTCCTCCCCAGNTTTAAAAAAAAATTGGTTAAAAATAACCTGGGTTTGGTTN
TTTCTTTTGNTATGGGGAAGGCCCTTCCAAGNAAGNGGAAAATAAANAAAAAAGTAATTA
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TTANCTTTTNTTAATTTTTTTTAAATTTTTTAAATTTTGGGANGGAAACCAAGGGGGGGG
TTTCCTTNTGGGCCTTTCTTGGTTTGGCCCCCAGGGGGCNTGGGGNANGGTTGGCCAAGG
NCCAATNTTTNNGCCAAAATTTCCAAACCAAGGGCCCTTTCNAACCTTTGGGCCAAGNTC
CCCCTTTCAAAAACCCCCTTTCNNCCTTGNTTTGGGCCCCCCAAAA
Sequence 715
CCGCGGTGGCGGCCGAGGTACCGTTTTATGATGATAACATAACTTTAATGCTCCAACCTG
AGAAAGATAAAATAGACTAAGATGACCATTGAATGCAAACAGAAAGTTCTAAATGAACAA
TCAAGNCAGGACCTGGAAATTTCAGGTCCCTGGTGGTTGGAAAANTAAATTAAATTAAAA
ACCAANTTTCTTGGTTTTTCCAAGGAAAAANTGGNTAAAAAAAATTAAGGTNTTTAAAAT
AANCCCCAGGGAAAAATTTCCAAATTCAAAATTATTAAAAAGGCCTTAAATTAAATTAAT
ATTTTTTGGCATTTCNAAGGCCCCAAACCTTAAAATTGGCCTTANCCAAAATNGGTTTTT
GGGTAATTAAACCAGGGCCAAATTTNATTAAAAAAATTCC
Sequence 716
AGGTACACGATTATTTCACCATCCAGGTATTAAGCCTAGCACCCAAGAGTTTTTTTTTTG
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AACCTTCCTTCTTTTCAATTTTTTGGCCTTNNCCTTAAAACCGNAACCTGGAAAAACCCT
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AGTGCCCAAGGGGAAAGNTTGGGGTTGGGGGGCCTTCCAACCNAATTNCCTTAANTTAAA
AATTTTTGCCCCNAAGGGCCAAACCCTTTNNTTTGGGAAGNGAAAGGGGGGCCCCCCGGA
AAGGGGGCCCCGNAAGGGTTTGGGGGAAANTTCCAAACCNAATTTGNTAAAGGGGGTTTT
TGGGGGGAAAAAG
Sequence 717
CCGCGGTGGCGGCCGAGGTACTACAATAAGGACAAATATTCAAAACATTCTGTTAAGTAA
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CNCTCACAGGANAACCAAAGGTGGTCAATAGGTTCCTCAAGCCAGGTGGCCACCCCAAAG
GAATGGTTAAACCAAGGTTCTTCCTTCNGTTAAGGTTCCTGGAAGGAATTAAAACCAATT
CCCCAAGGAGGTTTNCTTTTTGGTTTTCCTAACCCTTCTTAAAGGGGAGGAATTTTAAAG
GGGAGGTGGTTAAAAANCAACCAAAAAAGGGTTTGNAAAGGGNTTTTGGGGGAAGGNTTT
GGGAAAAAAANGNTTTTTAAAGGNA
Sequence 718
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGACTGTCTCAAATTCTT
GGATAGCTGTCCCTCATGTCACCTAGCTGCTGAGAGCTTTGTGATCCTAACAGGTGATGA

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CTCAGACCGACACTGCATTGGTAGGAATTCCACAAATAGGTGCCTCAATGTGCCTAGATT
GAAATATCAGCCTTTCCCAGACTGACCTGATGGGTTGACTTCAGGTGTGGTGTAAACACC
TACATTTTAATGTAAACATTTCAGTGTAATCAATGAGAACTATCATTCTGCTTTAATCAC
CATGAGTTCTGAAATAACAAAGGATTTGTCTGACATTCATTCTAAGAAATTCATTCTTAC
CTGACTAAGAAACTTTTTTAACCCGGCACAATAATAAAGAAATGACCTGTNAGTACCTGC
CCGGGCGGCCGCTCTAGAACTAG

Sequence 719
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGACTGTCTCAAATTCTTGG
ATAGCTGTCCCTCATGTCACCTAGCTGCTGAGAGCTTTGTGATCCTAACAGGNGATGACT
CAGACCGACNCTGCATTGGTAGGAATTCCACAAATAGGTGCCTCAATGTGCCTAGATTGA
AATATCAGCCTTTCCCANACTGACCTGATGGGNTGACTTCAGGTGTGGNGTAAACACCTA
CATTTTAATGTAAACATTTCAGNGNAATCAATGAGAACTATCATTCTGCTTTAATCACCA
TGAGTTCTGAAATAACAAANGATTTGTCTGACATTCATTCTAAGAAATTCATTCTTACCT
GACTAAGAAACTTTTTTAACCCGGNACAATAATAANAAATGACCTGTAAGTACCTGCCCG

Sequence 720
CCGGGCAGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCTGTGCTCCAGGTGTTCACA
GCTGCTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTGCGCAAATGTTGCC
TGTGCCCAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTG
GAGGGGCAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTG
ACTGCATTACACCACTCAGTATATGTGAGGGAGGGGATGTGCCTCTGGCCACGTGGTTAC
CTTGCAGTGCACAGCCTGTGGTCATAGA
Sequence 721
CCGGGCAGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCTGTGCTCCAGGTGTTCACA
GNTGCTTNGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTGCGCAAATGTTGCC
TGTGCCCAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAAAGTGAGCTCGCTG
GAGGGGCAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTG
ACTGCATTACACCACTCAGTATATGTGAGGGAGGGGATGTGCCTCTGGCCACGTGGTTAC
CTTGCAGTGCACAGCCTGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAA
CATGTCCTTGCTCTCCAATGGCCCTGGCAGGCCAACCTTTAGTTTCAGGGCTACCACCTG
TGCGGGGGCTTNTGTCATTACCCCCTGTGGATATTAATGCTGCACACTGNGGTTATGACT
TGTACCTTCGGCCGTT
Sequence 722
GGAGAGGAAATGTGTAGGGGTGAGGGATGATACAAGAAAGCCAAATCCTCATCTTCTATA
GTAGAGAGTCAGCGGATAAAACCTAAAAACAATACATCAAGAAATACTTACACTTATGGA
AGGAAATACCAGAAGTTAAAAGGGGTTACTTCTGGGACATCAGACACCAGACTGCAGGGA
AGGGCTGCCTCTTGTATTAACAAGCTTCCAGTATAATTTGCTTTTTAAAAATAGGTCCAT
GCATTATTTTAATAAAAATTANGCTGGGCGTGGTGGCTCAGGCCTGTAATCCCANCACTT
TGGGAG
Sequence 723
ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTAAGCAAGCTGTGTGACCTA
GAGCACAGTGCTTTGAGTTTTTGAGTCTTAGCTTCTGTGTCTATAAAATGGGGTTCACAC
AACTCACCTTACAGGGCTGTAAGATTAGATTACACAGAAAATATATTTTTTGGCTGTGGG
GGCTGGAAGTGTTGCTGATTAGCATTTGAAATCCCATCCTGTGGGTGAGAAAACCCCACC
TTATGACTTGGTGGGAAACAAAGCCAACCTCCCACTGATGAAGCTGAAAGTAGCAGAACC
TTGCTTCTACTGCCTCCCTTGCAGCTAGAGGCAGGCACAGGACTAGCCTGTCAATTGGAT
GCAAATGCTCCAGGCCTTGAATCACAACCTGGTGACTTGCACCCAAGTCTATTA
Sequence 724
GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG
ACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA
ATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACCGACTTNATCATGCTGAG

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TTGTGTGCAGCTGCAGCGGATTCCTCTGAGACGCTTGTCTATCGCATCTGCCNGGGCAAG
TNTCACCTTCCCTGGGATGTNCCCTTGGACAAGANACAAGGGAGGAANGGCCTTAANGAT
CCTANCTGGGGGGGGA

Sequence 725

TAGGGNGAATTGGAGCTCCCCGCGGTGGCGGCGCCCGGGCCGGTACCCATAAAAATTAAA
AACTATTTTAAAAAATAAATTCCATTTGAGCCACTCCTTCAAACCACCCAGAGTGGGTAG
ACGTCTTTCGTGCCTCTAAGAAGCCCCATCTCTATTCTGCGTCTCACCTTGCAGGGCTGC
TCATCTGAATCCTGAAGATGGTGGACACCCATCTGCTAGGACTGAAATGAATAGGACAGA
GGGAGGTGCAGAGTGAATGGACCATACTACCTGTCATCTTGGCAACGTGTGATTGAATAA
AACAACTTCTTTAGAAGTTTGATAGAGTGATTTGATAATGTAATTTACAAGTGATCATTT
CTTTTTA

Sequence 726

GGAGCTCCCCGCGGTGGCTTTTTGAGTCTGGACAGGNCTCTGTTTTTGCTTTAAAGTTAA
GAGAGCTAAATAAATGATGGTAAAAAGATAATAAAATAGAACATGAAGGGCTGTCAGTCA
GTGTAGGTATTTCCATCCCCTCACTTTTCAAGTGAGGTCACGGAGGCTCAGAGCGATAAG
GAGACTTGTCCAAGGCCACACACCGGCTGGTGCTCAAGCCGGGACTTGAACCCACGCAGT
CTGACTCTAGAGCCCAAGCTCCTAACTATGACATCCTATTTGATACACTGTTTTACTGGA
GAAACAGATCATTTGACAGACATTCTTTCTGTTAGCAATTTGACAACTCTTTCCCCAGTT
GTCTGTACCTGCCCG

Sequence 727

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGCTA
TTCTCTTACAGCTAGGACCCAGCGTTCTGGGCAGAATAGCAGGCAGCGCAGTAGCTACTG
AGATTATAAGTGGTAGGTTTATGGAGCTGTGACCACAACTCTCCACAAGCCAGTGCTGTC
TCATGCAAGCACTCTCAGTGTCCAAGTGCTGAGTGTGTGAGTGGTCTGGGCTTTGCAGGG
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TTGAGCTACTTCTGCTATTTTTGAAATTCTGGTTTGAACTGCAGGATCGTGCTGAGTTTG
GCACAGACTAATTTCTCTGTTGGCAGCACATGATGTATCAACTCATGTGTCAGTTGGTTT
G

Sequence 728

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ACCTGTGCCACCATTTTGGAAAAAGCTGGTCTCGATAACTGGGCTCTTGGAAAAACAAAA
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AAGCTTATTTTGATTCAAGCTTGTGTCAANAGCATTCTTGTGTTCAAGGAAGGATACCAA
AAAATACAGGGAGGAAAAGGGAAAGGAAAGCCGCTTATAATAATACCAGTCAGCTTGCAA
GGAGGGACCACCCTTGTCAGGGAAAACAANAAGAAAAGGAAAATTTGGTTTGGACCATTG
AAAAAACCCCAGCANTTAACCAACCCAATTTCAAAAACTTTCTTGATTCAGGGAAATTTC
GACTTACCAAGAAAAAACCTTTGGNAAAAATACCCANGGGGGGNTCCTGGGNAAAGGGNA
GGANGGGAGCCCAAAAAAANAATTTGGANAACCCCCCNANGACCGACCCCCCNGGAAACC
CCCA

Sequence 729

CCGCCCGGGCAGGTACTTTCTTTTTTTTTTTTTTTTTTTTTTTACGGAGTCTTGCTCTGTC
ACCCAGGCTGGAGTGGAATGGTGTGATCTCGGCTCACTGTAACCTTCGCCTCCCAGGTTC
ACGTGATTCTCCTGCCTCAGCCTCCGGAGTAGCTGGGATTACAGGTGCACACCACCATGC
CTGGCTAATTTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCATGTTGGCCAGGCTGGTC
TTGAACTCCTGACCTCAAGTGATCTACCCACCTTGGCCTCCCAAAGTGCTGGGATTATAG
GCATGAGCCACCACGCCAGGCCCACTCTNTAAATTTTGACCACCCTGCCTTGAGTGGTCT
TCTAGCACCCTAACCTCTGTCTAACCTTCGAGAGCTTTGCACTAGCNATTCCTGGGGACC
AGCTATGGTTGGTATCTTCTCAACTTTCTAATTTTTTTAAAAATATTATTATTATTATTA
TTATTTTAAAA

Sequence 730

TABLE 1

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TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGCCCGGGCAGGTACCTGTGTGGAA
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ACAGTGAAAACAGATATTAAAGTGAAAGGAGAAGAAACCGAAGAGCATCAGAGGGGACGA
CTGGGTTACTTAACTGTTGGGGAGCAATCTGAGGAGTTGGTTACCAGAGAAACTGGCGAT
GGCGATCCCGTGAGCAACATCTCTCAGACCCATTTTAAATGCCGGGGGATACTTAATCAT
GCTGAAAAACAGCAGAGCCCTGAGGTTTTGGACTACATGTTGCAGAAAGAA

Sequence 731

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTACACCTGGGACAAA
TACTTTTTTGTGAAGNCAGGTAAAGCCTTTGCGTGCAATATAGCATCTCTATGCAATGCA
NCAACTCCTCGTCTATCGCTACAGTAAGAAAACAGCCACGGGTCAGGTGTTGNGGCTCAC
ACCTGTAATCCCAGCACTTTGGGAGGTCNAGGTGGGTGGATCACTTGAGGCTAGGATTTT
GAGACCAGCCTGACCAACATGGAGAAACCCCATCTNTACTGAAAATACAAAATTCCCGGG
TGTGGTGGCNGCATGCCTGTAATCTCAGCTACTCGGGAGGCTGAGGCAAAAGAATTGCTT
GAATCTGGNAGGCGGNCGTTTGNNGGTGAGCCAAAAATCGTGCCATTGCACTCCAGCCTG
GGCAACAAGAGCGAACTTTCGTTTCAAAAAA

Sequence 732

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GACTACCACACTTCGCTAAGGTCACATAATAAATAAGCATCAGACATCAGGTGTGGTGGC
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GTTGGAGATCAGCCCGGACAACATAGTGAAACACGTCTCTACTAAAAACACACGCAAAAA
AATACGAGGCATGGTGGTGCATGCCTGTAATCCCAGTTACCTGAGAGGCTGAGGCACGAG
AATCACCCTTGAACCCAGGAGGCAGAGGTTTGCAGTGACCCGATATTATGTCACTGCAAG
TNCAGCCTGGGTGACAGAGCGAGACCTTGTCTNAAAAAAAAAAAAAAAAAAGAAAA

Sequence 733

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TGGTTCAAGCCATTAAATTACATCACAAAGGTTTGGTTTCTCTGTATATATTTCTCTGGG
GCACTTTTGCTANGTTGGCTCTATCCTGAGGCAGNCTCTCTCCTCGTGGNAACCAGGTGG
CTCTAGCAGCCTCAGCTTTATATCTCTCAAGAGTAAGTCCACCGTCACAGAGC

Sequence 734

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACACCACCACA
CCTGGCTAATTAATTTAAAAAAAATTTTTTTTAGAGATGGGATATCTNTATGTTGCCCAG
ACTGGTCTCAAACTCCTGGCCTCCAGCAATCCTCCCACCTCACCTCCCAAAGCCCTGGGA
CTGCAAGCATGAGCCACCATGCCCAGCTATATTTTCTGTAAATTGCTAATGANAATGAAA
CATGTATGCTGTGGACAGAAGCCTTGTTGGACCTAGAGCCCATGCTGGGTCCTTTGCCTT
AATAAAACATAACTCTGGCATTACATATATAATTAACAGCCTCAAAGANCATGTTTCTTT
ATTAAACTCTGACTGTTTCAGCATTATTTT

Sequence 735

GCGAATTGGAGCTCCCCGCGGGGGCGGCCGCCCGGGCAGGTACTACTGTGTCCTTTAGAT
CACTCTGCCTTGATCACTCTGTCCCGTCACTCTGCTATTTCACCTGNCAGNGAAATACCT
GGTATCGTCCTGCCAACGTGAAGCATTGAATGCTTNATACGTCTCCATCCTGATTGTTTA
GGCTTTGAATGCTGAGAAGTATCTGCACTTTGTTGGTCA

Sequence 736

CCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAAGTACCCTTAAGCCCTGCTCCT
TTGTAAAGTCTTTTTGGATTGTCATCATCAAGAGTCAGTNGATCTCCANCTTCTCAGAAC
TCACAGGGCACTCTGTCTAGGCATTGCTGACCGTCTGCAGTGTCAGATGGTGACTTCTGT
ATGTGTTGTGTTTCCCGTTAGACTCTAAGGTTTTTAAAGGCGAGACTCACTCCTGCAGAA
GCACATAACACAATGCCAAACTCTTATTTACGGAGGTCCTGGCGCATTGTCAGCTTTTGG
TAAATGCTTTTCTTTTGTTGAATACTTATCTTCTGTGTGCCAAGATTTGTGTTAAGTGCT
AGAAAAATGTGGGAGGTCACCGCAGACCCTGTTCTCATGGAACTGATGGTGTGTAGTGGG

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GTGNGGATTAACATAAATAAAATGATGCGCAAATGAACACAAAATTCAAATTGATGATGT
GTACCTGCCC
Sequence 737
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TGGATGCCCAGACCAATGGCCAGTGCTAATATCAATGCAANGATCCCAATGACGATGATT
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GCAACAGGACTTATTTTCAAATCATCAAGGCCAAAAAGCGATCGGAATGAGAAGGGGGCT
TCAACAGCAGGCGGATCATTTTCCCCCATGGTGACTATTTCAGGACCTCTGACATCCGGC
TCCGCCTCCACCTCTACCTCATAATTCCCGAGTCCCAAAAATGTAGATGGCACCACGGAA
GAGATAGTAGGCCACAGTGTTACTGGCTTCCCATAAACACAGCCCTTTCCTGGCTCACAC
GGGGCATGACCTCCCGCGTACCT
Sequence 738
AGCTCCCCGCGGTGGCGGCCGAGGTACATGTAGTTGGATGTCGAGGTTNGATTAGATTCT
GGGGTTGGTTTGCTTGTTTTGGTGGATNGTTTNTGAGTCGACTTTACAGAGGGTTGTTTA
TCCACCAGAAGGCACATGTGCTTGCCTGTGTCTTTTTTGTTATTGTTTTGAGGCAGAGCC
TCNCTCTGTCTTCCAGGCTGGAATGTAGTGGCACAATCTTGGCTCACTGCAACCTCCACC
TCCCAGGTTCAAGTGATTCTCCTGCCTCAGCCTNCCAAGTAGCTGGGATTACAGGTGTGT
GCCACCATGCCCAGCTAATTTTTGTATTTTCAGTANANATNGGGTTTTTTGCC
Sequence 739
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GAAGAATTAATATTGTAGTGTTAGGAAAACTAGCAATTTAACTAAACAGCATCAAGTTAC
AAACCAGGAAAGTGATTTAAAACTAAATGCTGGCTTATCTTTCTGAAACAAAGCATCTAA
ATTTGACAGTCCAAAATGGCACTTATTGAGTGTCCGTGACAATACATGCTGACAAGCAGC
ACACCTCTTTTTTGTTTTTTTAAGACGGCATCTTGTGCTGTCACCCANGCTG
Sequence 740
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TCTTGGCTCTGTCACCCAGGCTGGAGTGCAGTGGTGCAATCCCGGCTCACTGGAACCTCC
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TGCCCACCGTGCCTGGCTATT
Sequence 741
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACAGTATAAATCATGCT
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AGTNNTCCACACAGCTTTTTGGAAAGATCATGTTGNTTATAGTGCAAAAAAATACTGAAT
ATGGGAAACAATTTGTTATTATTTTTTAGGAGTNTTGCTTTGTCCCCCAGGCTGGAGTGC
A
Sequence 742
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AGAGTTACAATTTGCCCATAAAGAATGGAGAGAACAGAAATGTANCTTTTATGCTGAAAA
ACAAAATGCAAGGGCAATCCAGTTTCTAATTCCTGTGCCAAAGCTGCTGTTCTTGATGAC
CTCGGTCAAATCATTTAAATTCTCTCAATTTGTTCATATAAAAGTGCTATTAACCTGCAG
TTCCTTCAAATACTATCCAATCAATGTTGGCTACTTGATTTTCA
Sequence 743
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTATTCACAGGGTATGCATAAA

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CCAAATATACAAGAATTTAATGACAGCATTATTTGCAAACAGTGAAAGATTCTGAGCAAT
CAAAAGGTTCATTACTACAGGCATAGGTCTATAAATTACTACTGTATGGAATACTATGCA
GCCATTAAAATAATGAGGAAGAGGGAGAGTGCCCTGTATGCACTGACATGGAAAGGTTTC
AGTATATGGTAAAAAGCAGCTCATCTTAGAACAGATTTTATAGTATGACCCCACTTGTGT
GGAAATATTTTGTGATGTGCCACTCAGTGTATACGTATTCATGAGTGCATATACAAGTGT
GTGAGAAGCAATGTAAGTAACTGTTTCACAAGGACCCCCCCTTTAAGAAGGCAGAGGGGA
TCGGGGGATATAGAGTGAAGGGATGATTTTTGCTTTTTCCTCTA

Sequence 744
CCGCGGTGGCGGCCGAGGTACGCGGGAGGAAAGGGCTGTGTTTATGGGAAGCCAGTAACA
CTGTGGCCTACTATCTCTTCCGTGGTGCCATCTACATTTTTGGGACTCGGGAATTATGAG
GTAGAGGTGGAGGCGGAGCCGGATGTNAGAGGTCCTGAAATAGTCACCATGGGGGAAAAT
GATCCGCCTGCTGTTGAAGCCCCCTTCTCATTCCCGATCGCTTTTTGGCCTTGATGATTT
GAAA

Sequence 745
CCGGGCAGGTACACAGTAAGTGAAGGGCCAAGACTGACGGCTGATAGGACAGGGGTGACC
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GTCTGTGGGAGGATTTAAAAATAATAAAACCAACTAAAGGCAGTCTGCTTTTTATGGTCA
CCAGGCCGCCAGCAATTCTAAATTTCAGTGATAAAATATTCCTCCTCACTGGACACGAGA
AGCTGGCTTTCTCCTTATTCCCCAGTACCTTNGGCCCGCTTCTAGAAACTAGGTGGGATC
CCCCCCGGGGCTGCAGGGAATTTCCGATATTCAAAGCCTTATCCGAATACCCGTCGACCC
TTTNGANGGGGGGG

Sequence 746
CGGTAATACTNGTTATCCACAGCAATCAGGGGGGATTAATCGCAGCNAAAGAACATTGTT
NAGCAAAAAGGGCCAGTCAACAAGGGCCAGGAACTCGTAAATAAAGGCCCGCGGTTGCTN
GGNCGTTTTNTCCCATAAGGGCTTCCGCCCCCCCTTGGACGAGGCNTCACCAAAAAATTC
GACCGCTCAAAGTCANGAAGGTGGCGGAAACNCCGACAGGGACCTATNAAAGGATACCAA
GGCCGTTTTCCCCCTTGGGAAGGCTCCCCTNNTTGCCGCTCTCCTGTTCCNGACCCTTGC
TCGCTTACCGGATACCTGTCCCGCCTTTTCTCCCTTTCGG

Sequence 747
CCGCGGNGGCGGCCGAGGTACATCTTTGGTGACTTTTCATTCACATTTCATGGATAATTT
GGGGAGGTGGCCTGCCANCCCTGAAGCCCTACATCCCCATACACACTCTGTGCACATCCA
GTGCCCTGCTCCACCATGGCAGTGCCCGCAAGGGGGTCCCAGATGAGAAGAAGCTGGCTA
AAGGGCCCTTGTCCCCTCTCAGACTCCTTCAGCGGGCTGGAGTCCTCCCTCGCTCGATTT
CGCCCGAGAGCGTTAGGGGTTTCTAAATGCAGGCGCCTTTGTGTTGTAACGAAACTTTTA
GTTTAAGGGAAAATCTCTTTTAAGCCACTGATTGTTCTGACTTGCTGAGTTTACTCAGCA
GCCTTATGCTGGCTCTGCCACTGCACAATAAAACCAAAGCANGACAGTTGCAGNTNAAGC
AAGGGGGAACATGTTTTGCATTT

Sequence 748
GCCCGGGCATGGTACCTGTGTGGAAAAGAATGCTTGCAAAGCTTGTCACCCTCACGAGAA
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NNNNGGTACCTCGGGCCCGGTTTTNAACTAGTGGGATTNCCCCCGGGCTTGAAGGAATTC
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Sequence 749
AGGTACTTTTTTTTTTTTTTTTTTTTTTGGNCTAACTGNNNGGAGTATTTCTTTTACCCAA
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CCACAGGGATCCTGAGCTCTNATAGCTTAAACACACAGNGTNNATTTTACTGGTCTACTT
CTCCTGNAGACCTAAAAGGGCCTATAGCCTCAGTAGTTGACAAAACAACATATTAAAATT

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CCTCACTGATCACTAACATAACCTAAAATCCCTGCTTTTGACATTAGCATGGNANACATC
CTTAGCAGGCCTAAATAGAATGGCCTTATAAGTGGATCCAAAGGGC
Sequence 750
AGGTACATCACCCTGCTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGT
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GTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTT
CTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGAC
ATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAG
CACTTCTACCTGAATTTCACCATCACCAACCTACCATATTCCCAGGACAAAGCCCAGCCA
GGCACCACCAATTA
Sequence 751
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CTCTTCTAGTAGTTGCCTTAGCCATCTTGTAGTTGATTTGACTTTTTTTTTTTTTGCTNN
CAGAAAGCTCTATGCTTCATATGGACTTGCATACCAATTTTTTGTTCATCTGTTGGTCAT
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TTGAGTCTGTTTTTTTTGTTTTTTAAACCTTCCCATGNGGCAATTTGCCATATGCAAAAC
T
Sequence 752
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TTTTTATATTAGCAATCTACTTTAGGACAGAAATTTACTTTCCTTTCCTCTTGATTTTGA
CCAAAGTCCTCTCTTAT
Sequence 753
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ACAGGCATGAGCCACCACGCCTGGCCAAAAATCTTATAAATAATCCCCTTCTAATTTCGG
CCAGCTTAATCACACACCAAATTCCTTTCATGAGATTAATCTTCCACAACTTCTACACTT
CCTTAAATCTTTGATTTTGTCCTATACTTCTTTTTTTATATTAGCAATCTACTTTAGGAC
AGAAATTTACTTTCCTTTCCTCTTGATTTTGACCAAAG
Sequence 754
CCGGGCAGGTACCTATATGATGTTGGCCATGCTCACTCACTCCTCCAACCCTCAGTTTAC
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ATTTGGTGCTTGCACAAATGAGGTCCTAAGAGGTGGGTCCCTCTCATCTTACGTGAGGAA
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CCCTGTGAGGGGGTCA
Sequence 755
GCCGAGGTACANACAAGGGGGCNACTGNCATGGGGGNGGNNTCTGGTCTTGTAGTCNGTT
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GAACAAGAAGCAAAGTCAGGACT
Sequence 756
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CAACTGGGTTTCCCAAGCTATGTAAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGG
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TGCACAGCCTGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAACATGT
Sequence 757
AGGTACCTCTGGATATGTTACACTGAGANAGATACTTCATCACTTACATGATATTGCTCC
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GACATTCTGCAAAACAACTACCTGTAATCTTTTTTTTTTTTTTTTTGAGACGGAGTCTCA
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GGGTGCGAGCGATTCTTCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGCACACGCCA
CCACGCCCAGCTAATTTTTGTTGGGGTTTCACCATGTTGGCCAGGATGGTCTCCATCTCT
TGACC
Sequence 758
CCGGGCAGGTACTATGGTCCCCGGCAACCTCCCCTTCCTCCTGGGAATGCTCAAATGGGA
AGGCAGCATGAAACGGTGAACAGGCAATCACTGGACAAAGTCACAAGAACTGGGCTTTAG
AAATGGTTTTACCATTAGCAGTTGTGACACCTCAGAAGTGGCAACTCTGGATCTNAATAC
CCTACCCTTNACCCTAAGNANAGGTACCTCCNCNATTTTNNCGGGGGGAAACNTTCTNGG
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CCCCNNCNNCCCCCCCCNTTTTTTTTTTNTNAAAGGGGGNTTNAANANANATTTCNTTNC
TCNTTNTTTTNTNANGNNAAAAANTCNGGTNGNGGNGTTTTTTTTTTTANAAAAAAAAAA

Sequence 759
GGCGGCCGAGGTACAAAGAAAGGACTTGATAGCTATTACCTTGCTGCTATGTTTGTTNCT
TNGNCTCACCAATCATTNTTNTGTATACCTAGCACTGCACCAGGCGCTGAGGTTAGAGAA
ATAACTAAAACTGCGCCCTTCACCCCTGATGGCAGGATAGGCAAGGTTGGCACCATCGTC
ACAGCAGGACCCTCATCGATGCCTTGGTGTGTGCCTGGCATGGNGTTTGCAGCAGTTTAT
CACATNNAATCCTTACAGC
Sequence 760
AGGTACTCAGGCCTTACTGGGATTTCCTTTAAGACCTCTGGGAGGAAGTGTCAGTAGCTG
GGCAGGCCTTCTTGGCAAGCATTCCTCCCTGGGTTGTGGCGGGGGCTCCCGGCCTGCTGT
GTGGCAGCTGCAGGCTCCTGGGGACCTGAAGGAAAAGCTTAACCGTTCTCCCTTCCCTTG
CTTGGCACTTAGAGCACTAGTTCCATTCCAGACATACCGATTATCTTGCCTACGTGGCAT
AGAGGCCTAGGAGCCTCCCTGGGAGGAAGAGGCAGGCCAAGGTCTTGCCTGGCTGCTTTT
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CTGCGGAGCCTATTTTGGCCAGGGGGAGGGAGACAGAAATTANACCCNANGTATTNAGGT
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Sequence 761
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GATTACAGGCATGAGCCACCACGCCTGGCCAAAAATCTTATAAATAATCCCCTTCTAATT
TCGGCCAGCTTAATCACACACCAAATTCCTTTCATGAGATTAATCTTCCACAACTTCTAC
ACTTCCTTAAATCTTTGATTTTGTCCTATACTTCTTTTTTTATATTAGCAATCTACTTTA
GGACAGAAATTTACTTTCCTTTCCTCTTGATTTTGACCAAAGTCCTCTCTTATGCAAAAT
GAAAAATTACTCTTTTTTCAACTTTCTTTACCAAAAATACATCCTCATAACTTTTTTTCC
ATCTCTCCTACTTACTGG
Sequence 762
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGTGAAAAT
GGAATAGTTTTCTAATTACAGAAAGAAAAGAAGGGGGNGTGGGNTTNTGCCATGTTGAGC
ANGCTGGNCTCGAACTCCTGACCTCAGGNGATCAGCTCGCCTNAGCCTCCNAAAGTGCTG
GGATTACAGGCATGAGCCACCACGCCTGGCCAAAAATNTTATNAATAATCCCCTTCTAAT

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TNCGGNCANCTTAATCACACACCAAATTCCTTTCATGAGATTAAACTNNCACAANTNCTA
CACTTNCTTAAATNTTTGATNNTGNCCTATACTTNTTTTTTTATATTNGCAATCTACTTT
AGGACAGAAATTTACTTTCCTTTCCTCTTGNTTTTGACCAANGTNCTNTCTTNTGCAAAA
TGNANAATNNCTNTTTTTTCAACTTTCTTTACCAAAA
Sequence 763
TTAGGGCGATTGNAGCTCCCCGCGGTGGCGGCCGAGGTACATGTAATGCTCCTGAACTGT
ATGCTNGACACGGCTGTCTACNTAGGTTTTGTTCTGTGTATTTTATGACTATTTTTTTAA
AAAGTAAACAAAAAAGAATTAGCTGGAAATACCAGCACAGGCAAACCCCTGGAGACAGAA
AGCAGGTGAGTGGTTGCTGGGGCTTGAGCAGGAGGAAGGGCGAGGGACTGCAGAATGGCC
ATGGGCTTTGCCTTCTAGCATGATGAGAATGTTCTGGAATTAGACAGTGGTAACGCTTGT
TCAACACTGCCAGTGTAGTTAATGTCACTGAATTATACACTTTAAATGGCTAACATGACC
AATTTTATGTTATATATATTTTACTACCACAAAAAAACTAGCTGGCACCTAAAAACATTC
CATT
Sequence 764
CCGCGGTGGCGGCCGAGGTACTTGGATGGGTTTTGTGTGTATGTTTGTGTGTGCACTNGC
GTCCACCCTGTTGGGCTTAGTGAACTTTTTGATTCAGTGATTTAAAGTTTCTCATCAGAT
TTGGAAAATTCTCAATTACTTTTTTCTTTAAATATTTCTCTTGCCCTTCCCCTCTCTCTT
CTTCCAGGATTCCAATTTCATCGATGTT
Sequence 765
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGGTTCAAGCG
ATTCTCATGCCTCAGCCTCCCAAGTAGCTGGGACTAAAGGTATCCACCACCACGCCTGGC
TAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTGATCAGGCTGGTCTCGAAC
TCCGGCCTCAAGTGATCTGCTCGCCTTGGCCTCCCAAAAGTGCTGGGATTACAGGCATGA
GCAGCTGTGCCCAGCTGGATAATTATTTAATAAATTGGGGAGCATAGGAAGCATAGTATT
TGTGAAGTGGGTAGGCAGGTGTGATGGGGGTAGGTGATGTTACATTTGGGGCATTTTGAA
GTTGGTGGTTCTTCTGAGTTGAGCAGTCAGTCACTCTTCATTTGCTGCACCTTTATCTCA
TTTTAGCCAACAGACATTGAATACCTACCAAGTCTTAGGTATTTGCA
Sequence 766
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGAAA
GAAAACAAATACCAAGTATTTACAGATCCAGAGAAAGTTCACAAGAATGGGAGGATGCCA
GTTCCAATGCTTTGTAAAGTCAAAAATAGCCACATTGCAAAACAAACAAAAAAAAACGAG
AACGTTCCCGAGTGTGCCTCCAAAACATAAAGGAGAAAATCATACAGAAAAACCTCATGT
AAGGGTTGGAACTTGAGCAACCAGCTATCCAAATACAGAGGGGAATCCTCGCTTAGCTAG
GGCATGGCCTGAG
Sequence 767
AGGTACACACAGTGATTTGGGGTCCTTTTTCCTAAAACAGCTTCTTTATCAGGACTTTGG
AATTCTGGGTGAGATAGAAACACTGAAAACAGGGCGGAAGTTTTTTCTTCTGGCTTCTTA
GTCCATGGAGGGCTCAGCGTGGAGAGGATATGCCGTGGCATTCTCCCTGGGAGACCACAC
ATGTTCCCGACAGCTCAGACCCCAGACCCGCACATGCTTCTTGACAGTTNAAACCCCAAA
CCGNAGGNGCTCCCGACAGNTNAAACCCCANACCCCGCGTACCTGCCCG
Sequence 768
CCGCGGTGGCGGCCGAGGTACTTAATAATTCATAATTTAGCCATGATAGTATCTAAGCTC
ACTTTCAGAATTATTGCATACATGCCTTAGGGAAGAACCTATCCACTAATGCTTTTAATA
ACTTACATAGATTGTGTTGCGGCAAGTCAAGTTTTAATATAGAGGAAAGGGTTTATCTTA
TCATAGTAAAATAGTAGTGATGTGTTCATAATTTACTATTTGCATGGTATATTATCAAGG
CTGTAAAAGCTTGAATTTGCCTTTTCCACATCTTCATTTCAAATTAATTTTTGTGAGGAC
CCAGAGAAGTGGGTAGAACCCAAATGCCCATGNGGGT
Sequence 769
GGCANGGTACAAATTCAGGGGAGGATGGAGCAGCTGCAAGCCTGGCTGGCATCCCATGCC
AACAAGGTGACCCAGTAGATAAGTGACAAGGTGACTGAGCTGCCTGGTGCTCTTGCATAG
AATTTTCAAGTGTTAGAAAAATGTCTCCATGCCTTGCAATTTGTCTCTTGTGGCCAAGCC

TABLE 1
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TAACTCAGATGGAAATGCAGAAATCACCCGTCTTCTGCGTCGCTCACGCTGGGAGCTGTA
GACCGGAGCTTGTTCTAATTNGGCNATTTGGGTTCNTCCCCCCCGGGNNCNTN
Sequence 770
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTTGAGGNGGAGTCTCACTCTGTTGACCAGGCTGGAGTGCAGTGGCACAAT
CTTGGCTCACTGCAACCTCTGCCTCCCGGGTTCAAACGGGTCTCCTGCCTCAGCCTCCCA
AGTAGCTGGGACTACAGGCGCATGGTGCCACTCCCGGCTAGTATTTTGTATTTTAGTAGA
GACGGGGGTTTTACTGTGTTGTCCAGGCTGGACTCGAACTCCTGAGCTNAGGCAATCCAC
CAGCCTCAGCCTCCCAAAGTGCTGGCATTACAGGCATGAGCCACCGTGCCTGGCCTCTTT
CATATTTTTTTTACACTTTTCATTTCTTCTTATTTTAAGTGNGCTGGATAGGGGCTCCAG
AACAGAATTCAATAGAAAGTTGTGACAGTAGGAACCCTTATCTTGGTCCCTGATTTTAAA
GGAGGGTTNAAAAAAAACCCCCCCCAA
Sequence 771
ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTGGAGAGAGGGGGTTTCACTATGTTGCCTAGGCTGGTCTTGAACTCCTGGC
CTCAAGAGATCCTCTTGCCTCATCCTTCCAAAGTGCTGGGATTACAAGCGGGAGCCACTG
TGCCTGGCCTAGAAGATCTGTTTTCTTTTCTCTGAATAATTCTTGTGACACTGTCTCTCC
CTCCATCTCTTTCTGTTTCTTTGTCATTTTTCCCAGCTATCCTTTTTTCCTTGNCTTGTC
CTCTTCTCCCCTCCATCCTAAAACCTTTGATCACAAGCTAGTTTCCTTTCCACATCATCT
GCTCCCCTCTACTAAACGCTATTTCGCCCCCACCTGCTTTCAAGCTGNGCTTGCCTCTGA
GCCCCTCTTTCACCACGGCCCAAA
Sequence 772
NCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCATGCTAGACAA
CCTTATGACTTGAAAACAAAATAATATTTGAAATGGAAATGGCCTCAGTTCCACCCCTGG
TGCCCACATAGCATAGTGAACCTGCCCCTGCAGCATTGCCCATGAGTGCTAAGATCCTGT
GCCCATTTGCATGTCTTCCTTAAACAAAAGACCGCCTTAGTAAGAAATTAGTAAACCAGG
GAGATAATCAACTTATCCCCCAAAAGATTTAAGCCTCTCATTTTGTTTAACCTTCATTGG
GGATTTTAAATAGAAAACTAGGGCCCGGCAGGGTGGCACATGCCTGTAATTCCAGTACCT
GCCCGGCCGCTCTAGAACTAG
Sequence 773
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCACCCTGCTGAGGG
ACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTTCGCT
TCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCT
CCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCT
CATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGT
CATCAGTTTATCAACCAACAAGCAG
Sequence 774
AGGTACGCGGGGAGTGAACGCTCTCGGAGAACCCTTTCCCACGAACGTCCACTTCAAAAG
AACGCGACGGAGCATTAACTCTGCCACTGACCCCTGGCCTGCCTTCGCCTCCTCCTCTTC
CTCCTCTACCTCCTCCCAGGCGCATTACCGCCTCTCTGCCTTCGGCCAGCAGTTTCTATT
TAATCTCACCGCCAATGCCGGATTTATCGCTCCACTGTTCACTGTCACCCTCCTCGGGAC
GCCCGGGGTGAATCANACCAAGTTTTATTNCGAAGAGGAAGCGGAACTCAAGCACTGTTT
CTACAAAGGCTATGTCAATACCAACTCCGAGCACACGGCCGCTCTAGAACTAGTG
Sequence 775
CCGCGGTGGCGGCCGCCCGGGCAGGTACACTACTGGCATAAGAGTAAATTGGTGAGAACT
TTCTGGAGGGGTAGTTTGGCAATGTGTTTCCAAAAAATCTAAAAATTATATTTGCCTCTA
ATCCAGCAATTATACCTCTAGAAATTAATACTAAGGAAAATCTTAAGAATATACCGTAAA
ACTTTAGTTGTAAGAAATTTTTTTGTGGCCAGGCATGGTGGCTCACACCTGTAATCCCAG
ACTTTGGGAGACCAAGGTGGGCGGATCTCCTGACCTCATGATCCACCCGCCTCGACCTCC
CAAAGTGCTGGGATTACAGGCGTGAGCAAATTTTAAATAAGAAGAAACAGTCAACAGCAT
CAGACATAGTAGGTATGTCCAACACCATAATGGCTGAAAAGTGCCCCCTAGTCTGGCAAT

TABLE 1

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TAGTAGGTCATTGGTTTATTAATAACCGGCATGTTAAAGTTG

Sequence 776

CCGCGGTGGCGGCCGGCAGGTACAAATCATACCTCCCAAGGTATTGCTCCATTGTGTTTT
TGTGCATTTGGTTTGGATTTTTATGGGGAATTGAAGACAAGTGGATCATAAAGTGCAAAA
TAAAATGCTCTAGAAATGACAGATGGGGCACAATTTCCAAGAAAATTCATCTAGACAGTG
GCAACACTGAGAAAAAAAAGAAACATTCAAGAAG

Sequence 777

GAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTT
TGCTAGAGATGGGGTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGGCCACAAGTGA
TCCACCTGTCTCAGCCCCCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCACTCCTGGC
CCATGTTTAGGATTTATACCAATATTATTAACTTAGAAATAAGTTTCTAATAAATTATTC
CACCCGAACTTAGGGTAACTGAATTTTAATGCTGATGTATTAAGCAGGTTCTTCCTGGGG
TCTTTTGATTCTCAAGGGATCCTTCACTGNGGGTGGACTTCAAATTAATAGGAAGCAGGA
AGGAGCCACCTGCACTGTTTTCTTGACTGGGGATGACACCNAAACCTT

Sequence 778

CCGCGGTGGCGGCCGAGGTACTATGAGAATTTCAAACAAAGAATGAAGCCATAAAACAAA
AAGACTGAATATTTGGCTCTGCCTGGCTCCCAGGCTTTCTACTATTCTTGTGACTTGGCC
TCAACAAAATCTAAAGTGACTTGTTATTTGTGGGTCAGCTTTGTCCCATCCTTACCAGTC
ATGGCTTTAGACAAAAGACTCAGCACCACTCACCCTNTGGGACAGTNTGACTGNGGTCTG
AGNCCCCTGCTTANATATTAGGCTTAAGCTCAGTT

Sequence 779

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATGAGAATTTCA
AACAAAGAATGAAGCCATAAAACAAAAAGACTGAATATTTGGCTCTGCCTGGCTCCCAGG
CTTTCTACTATTCTTGTGACTTGGCCTCAACAAAATCTAAAGTGACTTGTTATTTGTGGG
TCAGCTTTGTCCCATCCTTACCAGTCATGGCTTTAGACAAAAGACTCAGCACCACTCACC
CTCTGGGACAGTCTGACTGTGGTCTGAGGCCCCTTGCTTAGATATTAGGCTTCAGCTCAG
TTCC

Sequence 780

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACACAGTC
AGCATGCGCTGTAGCAATGTGCTTTGCAGCTGGAACTCCTATCAAGCATCCTAGGCAAGG
CATGCACCCCAGCGCCAGAGAGAATCAGGAAGGGGAAGGTGCCCTGAACCTCAGACAAGA
ACCCCTTCCAGAAACCACCACCAAAGCCATCACTGTGTTTCCACCCTCAGACCTGTGTCT
CTTTAGCTTCTTGGTAGAAGGAAAGAAGAGGAGCTTGGGTGGGGCAG

Sequence 781

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCACGGTACCATGGACAT
GCACCCCGGCCACAGAGAGGCGCACAACTTNTACAGAACACCCTTCCACCTGGTCTTCCA
CAGCTGCATCAGATTCCTGGACTGTCACAGACATGACTTCAAACTTGAAAGTTGCAAGAT
CTCCTGGAACAATTTCCACAATGCATACAACTTCATTCTTAGCCTCAAGCACTGAATTAG
ACTCCATGTCTACTCCCCATGGCCGTATAACTGTCATTGGAACCAGCCTGGNCACTCCAT
CCTNTGGANNNTTAAACNTTNAAAAANNNAAANCNNNCCCCTNGGCNTTTTTAAAAANNN
GGNNNCCCCCGGGNNNGGGAAATTTTTTTTTAAANATTTTTTTTCCCCCCCCCCCCNGGG
GGGGGGGGCCCCCCCCCCCCCCTTTTTTT

Sequence 782

NAATTGAGCTCCCCGCGGTGGCGGCCGCCCGGCAGGTACTTCCCTGAGCAGTCGAAGTGG
ATGCCCAGACCAATGGCCAGTGCTAATATCAATGCAATGATCCCAATGACGATGATTGGA
AAAAACTTCAATGGCAGCAGTGACAGGATCTGTGCAGCAACAGCATCTGCATCTGGTGCA
ACAGGACTTATTTTCAAATCATCAAGGCCAAAAAGCGATCGGAATGAGAAGGGGGCTTCA
ACAGCAGGCGGATCATTTTCCCCCATGGTGACTATTTCAGGAC

Sequence 783

CNATTGAGCTCCCCGCGGTGGCGGCCGAGGNCTGATGTCCTACAGTCCTCTACCTGATCT
ACGTTCACTGGAAAGTGTNGAGTCTCAGCAGGAAGCACCTTGCTCTCGTGTCCGGCTAAT

TABLE 1

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TCGAGTGCTTTACGTAAGTAGAGGAATTGCTGACTTTTGGGACATTTCTGGTCTTGCCAA
AGTTCACCTTGTAGTAAAGCCCCCAAAGATACTTCCCAAATAGATGCTCTCTTGAAAATA
ACTCAG

Sequence 784

CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGTCGGCCTATTTTA
TATTCTGTTTAGTGCTTTCAACCCCGAAATCCACCTTCTAACATTAATATTGATATCCAT
CCTCTCTCTCCTCCAACCTCTCTCTCTCTTGCATTTACTTTTAGATTTTCATTACTTTCT
TTTTATTCTGATTCTTGTAAATAGTATAAACTAGATTCTTTTATTTTTATTTACTTTTTA
AATTTATGATTGACACATAATAATTGTATATATTTATGGGGCACAACGTGATGTTTCGGT
GCATGTATACATAGTATAATGATCAAATTAGGGTAGTTACCATATCCATTACTTTAAACA
TTTATCATTTCTTTGTGGTAACAACATTAAAAATCTCATCTAGAATGGCGTGAACCCTGG
AGGCAGAGCTTGCAGTGAGACGAGATGGGCGCCACTGCCTCCAGACTGGGCGGACGAGCG
AGACCTCCCNTCTCAAAAAAAAAAAAAAGG

Sequence 785

GCTCCCCGCGGTGGCGGCCGGCAGGTACGAAATGAGAGAAATGGTTTAGTAAACGTATAA
GACATCAACATAGNAAAGTATTCTATAGGNNTATGTGTTGGAATTACAAAGATGAAGAAA
AGATACAGGCAAGTATTTGATATACTNAATTAAAAATAGCAAGATGTAGAGTAGNCATGT
ATACAGTGATAGCAAGAACATGGATCCTTAAGGACAAAACTGAAACATAATGCAAAAAAA
GAAAAATATGCAAATTATTTTTCGTATGATGTAAGTTGTAAATAT

Sequence 786

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNGTACNCGGGCCTATTTCTGAA
TAACTCAGNGGCTTAAAATTATATCCCAAAGTAGNGGTATCACAGGGTTTCCTGATGAGG
ATAAATGGGCCTGAAGTGCTTATGGGCACCCACTATGTATCATGGNAAAACTTGCACGTG
TGTGTGTGTGTTGAGAGAGAGAGAAAAAANAATAGANAAAGTTGGTGAGAAAAGGGNAGG
CTGTTTTTTGNNCCGAGGGNTGTNTGGTTGGGCTTT

Sequence 787

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGNACACANTAAGTGAAGGGCC
AAGACTGACGGCTGATAGGACAGGGGTGACCAGTGGTGGGGAGGGTAGTGGGAGCAGTCC
ATCCTGGAATCTGGCATTCAAGGGGCGCATTGTCTGTGGAGGATTTAAAAATAATAAAAC
CAACTAAAGGCAGTCTGCTTTTTATGGTCACCAGGCGCCAGCAATTCTAAATTTCAGTGA
TAAAATATTCCTCCTCACTGGACACGAGAAGCTGGCTTNTCCTATTCCCCAGTACCTGCC
CG

Sequence 788

GGNGGCGGCCGCCCGGTTTTGGACGCGGGTNTNTGCCCTNACTTTTTTAGCGGAGCAGAG
GAAACATTCATAAGGAAATATGCGAGTAGAGCTCAGGAGAAAAGCAGGACTAGAGGCCCA
AGAATCACAGGCCAGAAGAAGAAGCTGTAGCCTCGGGAATGGAAGAGCTCTCTGAAGGGG
AAAGGGGAGAACAGGAATGTNCCAGGAGCCAAGGCTCATCTATAAGGGACTTNCACATTT
AGGATGTAGAAGAAGGAAGCAGAAGCAGGGGATGACCAGAAATGGCCCCAGAGATGAGAT
GAAAGTTAGGAGAGCGGNGAGCAAGCCTTTAGGTTTCACAAGGGAAGGAGGGAAAGTAGG
TGTTAGGTGCTGCCAAGATCAGGGAAAATAAGCAGAAGACCAGGCCATTTTNANTTGCNG
TGG

Sequence 789

CCGCGGTGGCGGCCGAGGTACCACAATCAACTCAATCACAACATATTACAACAAAACCCT
TCATCTTTTTCCTTAACCCACTGTAACACAAAGCAGAGAATACAGATTAGCTTTTTTATT
TGTCTGTTTGACTTCATCTCTTACATACCTCTATTTCAGTATCTATGATATTTTCCTCTT
CTTATCTGTTCAATGACAGTCTTCCCTTTTAATATTCTAAACTTGTCAAGCACAGCANTT
AAAAAAGTATTCTCATGTATATATTTTATCTTTAGAGCATCGCATAAAGNCTGATACATA
GGAAGTTTTAGATGCATATTTACATTGGGTAGATGAATCCAGGGGAAAAG

Sequence 790

CCGCGGTGGCGGCCGCCCGGGCAGGTACTGCCCAAGAGAGACGTCTCTTACTGCCTCATT
AAGCATTTGGAGCTGTTAAACACAAATCAAGGCAACCAGAAAGGGCATCTTGGCTTCAGG

TABLE 1

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CTGGGCATAACCATCCCATTTGCCACATAAAAGTCTAGTGGCTACTCTGCACCCTTTCTG
GGTAGAAGCAGAGTTAGTTTGGTCATGGGGGCCCCTGTGGGACAGTGTTGCCCAGACAGG
TACCTCGGCCGCTCTAGAACTAG

Sequence 791

AACCCACTATAGGGNTNATNGGAGCTCCCCGCGGTGGCGGCCGCCCTGGCAGGTACTGNC
TGTCTCAAATTTTTGGATACGCTGTCCCTCATGTCACCTAGCTGCTGAGAGCTTTGTGAT
CCTAACAGGTGATGACTCAGACCGACACTGCATTGGTAGGAATTCCACAAATAGGTGCCT
CAATGTGCCTAGATTGAAATATCAGCCTTTCCCAGACTGACCTGATGGGTTGACTTCAGG
TGTGGTGTAAACACCTACATTTTAATGTAAACATTTCAGTGTAATCAATGAGAACTATCA
TTCTGCTTTAATCACCATGAGTTCTGAAATAACAAAGGATTTGTCTGACATTCATTCTAA
GAAATTCATTCTTACCTGACTAAGAAACTTTTTAACCTGGCACAATAATAAGAAATGACC
TGGNAAGTACCTCGGCCGCTCTAAAACTAAGGTGGGATCCCCC

Sequence 792

NGGCGAATTGGAGCTNCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGCAAAATGTAA
GTTGGTAAAAGACATTGGACTCCAGCTATGTTCTTTAGAAAGAAGGTATTGGACTCTGGC
CATGTTCTTCAGAAAGAACATGCCTGGCTTTTTCACGATTTGATCAGTCTTCTTAGACCC
TGAACCCCACCATGAAATGGCTTCCCCAGACACAACCCGAGAGAGTTATGCTTTGTTTCT
CAGCTAAAATATTTTGCAGATCTTAATTTCCTGGGTCATTGCATCATTTTTTTTTTTTTT
T

Sequence 793

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAGTATACCTTTT
CATTTAAATCATTGAACAGTTCACAATGGCTGTTGTAAAGTTTTTGCCTTGTTACTGAAA
CCATCATCTCTTGGTCTATTTCTATGGAGTTATTTTTTCCTAGTTATTGGCAGTTTGCTT
ATCTTTTATGTGTCTAATAACTTTTAATTGAATGTAGAACATTATGGATCTTATATTTTT
GAGAATCTGAATGTTTAAAATTCCTTTGAAGAGTTTGTGTTTTCTTCTGGAGGCAGTTTA
CTTACTGGCTGTGAGCTCAGTCCTGTTGAGGCTGTTTNGCGACNNNCTGTGGCTTTGTCA
GGGTGGGGTGGTGGATCAGACATCTGGTCATCAAC

Sequence 794

ACNCCCGGCCAAAAGGGAGNNCACAGGGGGGGGCCAATATATAAGGGGGGCAAGGAGGGG
GGGNNGGGNAAAGANGNCAAACCCCNNCCCNNGGGGNNGGGGGGGGAGGGGNAANAAAGA
AGGNGGGGGNGNCCANGCAACCNAAAGGGACNAACCCAACANNNAAGCGGGGGAAGGGGG
CACGANAGAANANANANNNANAGGNGANNCAAGAACCAANCAAGGGNGGGGGGGGAAGGGC
NNCAAANGGGNNNAAAAANNGGCNCAGGNNACCNAANGGGGGGNNGGGGCNNAGAANGGG
GGNGGGGGNNANGGAAANNAAANNCNGGANNNAACCAAGGGGAAGGGAGGGGGNGGGAAA
NCAAGGCCCCCGGGGNCAAAACAAAAAGNGGGGGGAAAANACAANCGGGGNNNGGNGNCA
GGAGGGGAGGNNANNAGCCGGCGCGNAAAAAAAAAAAACAANCCAGGGGCAANGGGGNNG
GGGGNGGCNAANGCCNCNNGGGGNAAANCCCNANGGGNGNACCCNNGGAGGGNGGGGNNN
GGGGGGGCNCNGAAGGGAAAAANAACCCCCAAGGGAAAANCCCANGGAANGGGNAANAAG
GGGGGNGGCAAGNGGGNANCCCGNAAAAANAAAGGGGAAACNGGGGGANNGNCCCAAAAC
CCCNGG

Sequence 795

CCGCGGTGGCGGCCGAGGTACTATCTCTTAGGAGAAGGCTGACTTGAAGGCTGTGAAAAA
CTAAGAAAACACCAACCATTCAACAGTATACTAGAATTCCTTTCAATGCATAATAGAAAC
AAGAAGGGATTAGAAAAGCATGTCATAATTTCCAGATAGCATAATTATTTACATTAAAGA
TCCAAGAGACTCAGACCTAGTAAAAGATTTTGGCCACATTGTGACATTTGAGATCACATT
AAAAAAAAAAAGGAAAAATCAAGNGATACTAACATCACCAATTAACATCATNAATTAGAA
AATTTATCCATCAGCNGTATTNNNNNGGGCTCAATGCNTTGTAATGCCGCATTTCGGGAG
GC

Sequence 796

CCCCCCCCGGAGTTTCAGCGAAAANCCCGGCCGAGGNACCNCNCCNTTACNCCCAGGNTT
ANAAACNCCCNGGTNTNGNCCCAGGAGAGGCGGGGGANCACCGCGCCNGGCCAGCANGGN

TABLE 1
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CCCCTNCTAAATNNNGNNGTNNAAGGAANCNGGACCCCAAANNCNCGCCCCCCACGAAAG
GAGCCTGGGAACTACCAGGGCGTGAGCTCACCGNGCCCGGCCGCTCTAGAACGAGAAGGA
ACCCCCGGGCTGCAGGAAAAACNATAACAAGCNAANCNAAACCCGACCACCCCAAGGGGG
GGGCCCGGGACCCAGCTGTTTGGGCCCTCAANACNAGGGAAAAATTGCGCGCTAAGNGCN
CAANCANGGGCCAAAANGCTGGNTNCCCCGGAGGGGAAAAAAGGACACTCCCGCGNCACA
AATTACCACNCAAAACATAACNGAAGCCGGNNAANCAATAAAANNGGGGAAAAANACCCC
NGGGGGTGGCCCTAAAAGGAGGGGGAGCCCCAACCACCAACAAAATAAATTGGGGG

Sequence 797

AGGTACTATCTCTTAGGAGAAGGCTGACTTGAAGGCTGTGAAAAACTAAGAAAACACCAA
CCATTCAACAGTATACTAGAATTCCTTTCAATGCATAATAGAAACAAGAAGGGATTAGAA
AAGCATGTCATAATTTCCAGATAGCATAATTATTTACATTAAAGATCCAAGAGACTCAGA
CCTAGTAAAAGATTTTGGCCACATTGTGACATTTGAGATCACATTAAAAAAAAAAAGGAA
AAATCAAGTGATACTAACATCACCAATTAACATCATCAATTAGAAAATTTATCCATCAGC
CGGGTGTGGG

Sequence 798

GCGGCCGAGGTACAATTCAACAATTNNTGGTCCAGGATCATGAATGGGCCATTNNTAGTT
CTGTGTGTGCTTAAACACATTTTTTTGTGGGGTGCTGTGGATGTGTGGATGTAGCCAAAA
AAAACCCTATTGTGGGNTNGGTCCTGGGGCAGAAAGTCTGGTGCCAGAGAGTGGGGTTCT
GGGGGTCTGTCTTCATAGTTTGGGGTAGCACTAAAATCCTGTGAGCCTTTCTGGGCCTTG
GTAACCTCCCCTGTAAGTTAGCTGTTAGATAATTCAGCTGGGTAGCATTTTATACCTGGA
TGATGTTCTAAAGTCCAGCCACANAAGGCCNNNGTCTGGCAGAGTGAGAATTNCCTTTGA
AGAACCTTNAAACTGNTNCCCNAGAGTGACACAGGGGNNCCTNGGGGAAAANCNAAAAAG
NNNTTGGGAATTCTNTNCAAAAGNAAGNCCCATTTTTTTTTTGCCNNNATTTNGGCCCNCG
NTAATNCCCCNCCCCAAGNAAAAANNAAAAAAANTNTTTTTTTTTTTTT

Sequence 799

CGGTGGCGGCCGCCCGGGCTTGGTACCCTCTGTCACGGCTTCCCTTTGCTGGAAAAGGGA
ATTTCCCAACCCCGGGTGAGGCAATGCCCCGCCCTGCTCCGTGGGCTGCACCTGCTGTCT
GTCAAGCCCCAATGAGATGAACCCTGTACGCGGGGGCCTGGGATCTCAAAATGGCGGCCC
CGTGCGGAAACAGCGTNTGGGAGCAGANATTGTTGCCTCCTGAA

Sequence 800

GGGCGNTTTGGAGCTCCCCNCGGTGGCGGCCGGGCAGGTACTATCTGGAACNTGTAGCTT
CCTTTNGCACTGCAGCATGGGAAGCCAGAGTTGATGATTCATACACCAGCATTTACATTT
TTCAGCATGAAAGTGGTATGTTCTTCAACTCACAACCCATTGGCCAGAACCAGTAACATG
ACTTCACCTAACTGCAAACTAGCTGGAGAATTGTGGGAGAGCTCATGG

Sequence 801

CCGCGGTGGCGGCCGAGGTACCATTTAGCACACAATTTCCATGTCCCAAAAGCAACCCCC
ATAAACAGTGACTATTTTTTATGCTGTTTTTCTTTGCCCCAACACTTTTATCATTTGATA
TGTTATATCTTGCTTTTTTTTTTTTCTTTTTTAATGGAGTCTCACTCTGTCACCCAGGCTG
CAGTGCAGTGGCGCGATCTTGGCTCACTGNAACCTCTGCCTCCTGGGTTCAAGCAATTCT
CCTGGGGGGTGGGGAGGTTTGCAAGTGATCCAAGATTGCGGCTCTTCACTCCAGACTGGG
NGAAAGAACGAAACTCCATCTNAAAAAAAAAAAAAAAAANAAAGTACCTNCCCGGGCCGG
CCGCTCTANAACTAGGTG

Sequence 802

CCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGATGGTGTCAACTTATGTCAGGACCCATG
GGCCCTCCCCATGCACACAGCACTCTTGGAATCTCATCCTTTTCCATGGCTCTGGCTCAC
ACTTCCACAGCATTTACTCCTAAATATGCCCCCTGGGTTCAAGGGTGATTCTCGTGCCTC
AGCCTCTCAGGTAACTGGGATTACAGGCATGCACCACCATGCCTCGTATTTTTTTTGTGT
GTGTGTTTAGTAGAGACGTGTTTCACTATGTTGTCCGGGCTGATCTCCAACTCCTGTAGT
CAAGTGATCTGCCCGCCTCAGCCTCCCAAAGTGCTGGGATTATAGACATGAGCCACCACA
CCTGATGTCTGATGCTTATTTATTATGTGACCTTAGCGAAGTGTGGGTAGTCATTAGTGC
TGGTCTATCTCTATACCTTCCCCAGGCAAGGTAGGATTGCACTTCCCGTCCACT

TABLE 1

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Sequence 803
AACGACCGCCCGGGCAGGTACTAAGCCAGGACCTCAGTTAGCACTAAGCACTCTTACTAT
TGCCCCCACCTGGCACAAAGCAAACTGAGATCTTAGTTGGGCCCATCATGTGTCATCTGA
TTGTCTTAGAAGTTCTTTTTTTCTAAGACAGAGTTTTGCTCTTTTGGCTCAGGCTGGAGT
CCAATGGCACAATCTCGGCTTACTGCAACCTCCGCCTCCCAGGTTAAAAGCGATCCTCCC
GCCTCAGCCCTNCGAGTAGCCGGGACCACAGGCACCCGCCACCACGCCCGGNTAACCTT
Sequence 804
TACTATAGGGCGAATTGGANCTCCCCGCGGTGGCGGCCGCCCGGGCAAGGTACTCTCTAT
GACTATCAAGCTCAGGCCTCTCCCTTTTTTTAAACCAAAGTCTGGCAACCAAGAGCAGCA
GCTCCATGGCCTCCTTGCCCCAGATCAGCCTGGGTCAGGGGACATAGTGTCATTGTTTGG
AAACTGCAGACCACAAGGTGCGGGTCTATCCCACTTCCTAGTGCTCCCCACATTCCCCAT
CAGGGCTTCCTCACGTGGACAGGTGTGCTAGTCCAGGCAGTTCACTTGCAGTTTCCTTGT
CCTCATGCTTCGGGGATGGGAGCCACGCCTGAACTAGAGTTCAGGCTGGATACATGTGCT
CACCTGCTGCTCTTGTCTTCCTAAGAGACAGAGAGTGGGGCAGATGGAGGAGAAGAAAGT
GAGGAATGAAGTAGCATAGCATTCTGCCAAAAGGGGCCCCAGNTTCTTAATTTAAGCAAA
CTAAGAAG
Sequence 805
CCGGGCAGGTACAATGGACTTTGACAGTTCTTCCCAAACAGATCCTAATTTTAAACATTA
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ATCTGTAAAATCGGAATAATCATCCCTGATCCAGCTATCACATTGCAGTAGAGTGAGACT
CAAATGAGATAATGGAAGACAGTGGGAATGATCATTTCCAACTTGGCCTGGCTGACCCAT
TCCTTGTTCTAAAGTCAGCTCAGGTTTCACCTCTTCCAGNGAAGTTGACCTGGCACTTTC
TTTTAGGATGGCTACTGCTCCTCTGGGTGCCCCGGGGCTCANTGTCTCCCCATCACCGCC
CATGGCACACTTGGAGTGACTGGTCCTTTACTTTGNTT
Sequence 806
TNCGGGCAAGGTACATTGGCCCCAAAGAGNAGGAATTCCTTGTAGAGGAGCTTGTAGATG
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AGAGTGTATGAAACCGTCATGGTGCTGGGAGCCTGGGGCAGGAGGTCACAAGAGTTGCCC
CCAGGGCTGTCGTTTAGTTCTCCAGACAACCTCCCTTCCACTCTGGTCTCACACACCCCA
GCCTTCACCCTGCGTCAGTGGACAAGGGGGTAGGAGCCTGCAGAGCAGAAAAGTACCT
Sequence 807
AGCNCCACCGCGGTGGCGGCCGANGTACGCGGGATATGTAGAACTTCACNNGTTTGAAGT
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AACCCTGTNTGTACCTGCCCG
Sequence 808
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CATCCTGCTTAGAGATGAGGAAGATCCTGCTGTTCCGTGGGGAGCTCTTGAGACACCCGT
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CTCCATAAACATCTTCAAGTCTTCCCTTTCTCCACCCCAAAAAATGCCCACCTTGGAAAG
GG
Sequence 809
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GCCTTTTTCCCCTTTTTTAAAAAA
Sequence 810

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CCGCGGTGGCGGCCGCCCGGNCACGGTACGCGGGGATGTCTTCTGAGAGAGTCAGGGCAG
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ACTCCTNTGTGGAGCTAATCAACTGCAAGGAAGATTGTTCCCAGTGTCCAGACCTGAAGG
AGTCTGGACCCATAGTGCANTGAGATTTGGGGAAGGAAGGATTCCGGATAGGGGTGAGCT
TTNTGNTGATAAGCAAATGTGAAC

Sequence 811
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGTGTTTATGGGAAGCCAGTAACACTG
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GAGGTGGAGGCGGAGCCGGATGTCAGAGGTCCTGAAATAGTCACCATGGGGGAAAATGAT
CCGCCTGCTGTTGAAGCCCCCTTNTNATTCCGATCGCTTTTTGGCCTTGATGATTTGAAA
ATA

Sequence 812
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TTTGTTGTTTTGCTCACGGGGGAAGGGGGTGAAGTACTGGCTGTGCCTGGGTTTG

Sequence 813
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GTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTG
GTGGACATCCATGTGGCAGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGC
ACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACCATATTCCCAGGACAAAGCC
CAGCCAGGCACCACCAATTACCAGAGGAACAAA

Sequence 814
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Sequence 815
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CAATAATTCTCATGCCTCAGCCTCCCAAAGTGGTGGGATTACAGGCGTGAGCCACTGCGC
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AGTATACTCTCCTCCCAAAATTTAGATAGTTGTATTTTTCTGATTATTCCAAATAAGAGT
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TGAACATTTTCACTTAT

Sequence 816
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GCCTTGCAAGTCCCAGAGGCTGCAGCCGTATTTATTCTTCAGGCCAAGACTCTCAGGACA
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GGATGGCGGCTTCATTTTTGTCCCTCCTACCTCTGA
Sequence 817
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GCAGATGGATCACCTGAAGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCC
GTCTCTACTAAAAATAGAAAAATTAGCCAGGAGTGGTGGCAGGTCCCTGTAATCCCAACT
ACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGC
Sequence 818
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CCCCCCTTGACCGAGGCANTTAACAAAAAATNGACNGCTTCAANGTCAGAAGGTGGGC
Sequence 819
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AGCAAAAAGGTTTCAATCCGTTCCGTTTTCTTTGTTTTAGCACTTACCCCAGNNNCCTCC
ATAACAAAGGTGGNGCCCCTTCAGGGAAATTAAATTTTTTTTTCNTAAAGGCCTTGGCAT
TAANCCNTTTTTTTTGNGGGNNGGGNAAANTTTTTTTTTTT
Sequence 820
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CAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATT
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AGTTTATCAACCAACAAGCAGTTCCAGCACCCAGCACTTTTTACCTGAATTTTAC
Sequence 821
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CTCCATTATTGCTTCCCTAACAGTGAGGATAAGTTATTGGCATCAANCCTGGCCGGTTTA
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CNTNTTTTTTTTTTTTTTTT
Sequence 822
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GGAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTCAGAGGTCCTGAAATAGTCACCA
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TTGATGATTTGAAAATAAGTCCTGTTGCACCANATGCAGATGCTGNTGCTGCACAGANCC
TGTCACTGCTGCCATTGAAGTTTTTTTCCAATCATCGTCATTGGGATCATTGCATTGATA
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CT
Sequence 823
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AGCTATTATCATCACCCTCCTTGCTAGGCAGAGCAGGACAGTGGGGAATTGATGTTTCCT
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AGCATACAGGTTCCCACTTAGGCATTGAGAGGACATAGGAAGCTGTTTAACTTCCTA
Sequence 824
ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAGTTATTTTA
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CTACCACACTTCGCTAAGGTCACATAATAAATAAGCATCAGACATCAGGTGTGGTGGCTC
ATGTCTATAATCCCAGCACTTTGGGAGGCTGAGGCGGGCAGATCACTTGACTACAGGAGT
TGGAGATCAGCCCGGACAACATAGTGAAACACGTCTCTACTAAAAACACACGCAAAAAAA
TACGAGGCATGGTGGTGCATGCCTGTAATCCCAGTTACCTGAGAGGCTGAGGCACGAGAA
TCACCCTTGAACCCAGGAGGCAGAGGTTGCAGTGACCGATATCATGTCACTGCAGTCCAG
CCTGGGTGACAGAGCGAGACCTTGTCTNAAAAAAAAAAAAAAGAAA
Sequence 825
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CAACGTCTTAGCCAAAGACACAGAACTATTTAGCGACACTGTCTAGACTCTAGTTTCCAT
GTCTCCTGACTTCAGTCTAGTGTTCCACCCCTGCCGCCCACCCCTGCCCCATCCTCATTC
CTCCTGTAGGAGAGGCCAGACCTTTGCCTGCTGCAGCTTGTGGCTCTTCTCCTGCCTTCA
GTTNTTCCATTGCCTG
Sequence 826
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GGCCACTAGACTTTTATGTGGCAAATGGGATGGTTATGCCCAGCCTGAAGCCAAGATGCC
CTTTCTGGTTGCCTTGATTTGTGTTTAACAGCTCCAAATGCTTAATGAGGCAGTAAGAGA
CGTCTCTCTTGGGCAGTACCT
Sequence 827
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AGAGATGTGGGATTTGG
Sequence 828
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GCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCT
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Sequence 829
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ATTTAAACATAAGNGTAGTAAACATGAACTCTAGGAAGCCTCCTGGGGCTTCTNCCTGTG
TCTGGAGCCCCTGCACATGCCCAAAGGAAGTCCTTTTGGTTCTNCGNTCAGNAGAGAAAG
GGNGCATTTCACTAAAAGGGAGGTGGGGAAACAAGACTGGTGGTAGGG
Sequence 830
CCGCGGTGGCGGCCGAGGTACATTATTCATATCCAGCACTCCCTGCGGCTGCTGCTGGAG
GAGCAGTTATCCAACAAGGACTGTTTCAACCTCATCGCGTTTGGAAGCACAATTGAAAGC

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TGGAGGCCTGAGATGGTTCCCGTGAGTCACAACAATTTACAAAGTGCCTGGCGGTAGGTT
ATGGGCAGAGACTTCGTGGGGCTGTGTCTGAGGGAAGGTTTGCAGGCATTGTTTTCTCTG
TCCCCCTCTCCACCAAGAAGTAGCTCTCTAGAGTCCCTGACCCCAAACAGCCATGGGCAG
AAATCAGAAAACAGCTTCCTTCTGTCTGCTGCTCTCCCCACCTGGCCATCTTCACTTTAT
GAGAGTAATGACATCGACTCCATTCACGTCTGAGATGGAAAAGGCTCTCAGCTACTCCCA
AAAGGTATGCCCTGGGCATGG

Sequence 831

CCGCGGTGGCGGCCGAGGTACGCGGGTAACAGGAGTCTTTGCTGAGTGATCATCTGTTTA
TTCTTTTACTCCACAAATATCGAATGTTTACAGCGTGCCTGGCACTGAGCAGGGCTGGGG
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GTGTCCTGCCCG

Sequence 832

CGGGCAGGTNCGCGGGGGTGTTTATGGGAAGCCAGTAACACTGTGGCCTACTATCTCTTC
CGTGGTGCCATCTACATTTTTGGGACTCGGGAATTATGAGGTAGAGGTGGAGGCGGAGCC
GGATGTCAGAGGTCCTGAAATAGTCACCATGGGGGAAAATGATCCGCCTGCTGTTGAAGC
CCCCTTCTCATTCCGATCGCTTTTTGGCCTTGATGATTTGAAAATAAGTCCTGTTGCACC
AGATGCAGATGCTGTTGCTTGCACAGATCCTGTCACTGCTGCCATTGAAAGTTTTTTNCA
ATCATCGNCATTGGGATCATTGCATTGGATATTAACCCCTGGNCAATNGGCTTGGGCATT
CAATTTGACTTGNTAAGGGAAGTNCCTCGGCCGNTNTANAACTAGNGGGATCCCCCGGCT
GGANGAATTTCAATTTNAACTTATTGATACCGTCCANCCTTGNGGGGGG

Sequence 833

ACCGCNGTGGCGGCCGCCCGGGCAGGTACATCACCCTGCTGAGGGACTTTTNNGGACAAG
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AACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGAC
CCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTG
GGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTTATCA
AC

Sequence 834

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTACCTTACCACCC
CATCCCCAGAGCATTGCATGGGGTGTTTGGCACACAGTAGGTGCTCAATGTAAACGTGTG
CACTGTGGCATGTTAGAGCCAGACAGGATCTCATCCAGCCCGTTCTCTGCACCCCTCCCT
CCCCTCTCCAAGTAGCCCTGCTGTGGGTTCAAGTAAAGAGGGGCTGGGGCGCTGGTCTGA
TTGTGTGGGTGATTTGGGGAGATCTCTTCCTCTTCCGGAACCCCAAAAGGTTGGGACAAA
CACAGCAACAAGCCCAGCTCCCTGAATTTCAGTGATTCATTTGTGGGGATAAAGGAGTGA
ATG

Sequence 835

CCGCGGTGGCGGCCGCCCGGGCAGGTACTAGTTATTTTAAATTCCACTCATAACTTATCG
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TGGGAGGCTGAGGCGGGCAGATCACTTGACTACAGGAGTTGGAGATCAGCCCGGACAACA
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CCTGTAATCCCAGTTACCTGAGAGGCTGAGGCACGAGAATCACCCTTGAACCCAGGAGGC
AGAGGTTGCAGTGACCGATATCATGTCACTGCAGTCCAGCCTGGGGTGACAGAGCGAGAC
CTTTGTTTCAAAAAAAAAAGAAG

Sequence 836

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AAGCAGTGTTGGTAAAAGCCTCAAATGGTGAAAAGGACAGAAACTCAAACCCGCCCTTGT
GCCAGTAAGTAACTGTTACTTATCTCACAAAGCGCTTGGCTCTGGAAACAATCTAACTCT
GAGCTGCACGTGGAGTCTACATGGGAATGTGCAAAGCATGTATTTCCTTTTAGGTGCAGC
AGAGGTAACCGAAATTCAGATAAGAGAAAAAAAATCCAGATTTCAATGCAAGAGGTGGAA

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GATCCACGAAGATACTCGTTACTATTTGGTTTCTAGGAGCAGGATTGCCACTAGATATGA
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AGAAAGAAAGAGCAACAGGCCGGGCCGCAGTANCTTCATGCCTGTAATCCCAGCACTTTT
GGGGAGGCCCAG

Sequence 837

NTTGCGTTGCGCTNACTGNCCCGCTTTCCAGTNCGGNGTAAACCTGTCGTGCCCAGCCTG
CATTAATGAAATCGGCNCAACGCGCGGGTGAGAGGCCGGTTTGCGTATTTGGGCCGCTCT
TCCCGCTTTCTTCGCTCACCTGACTCCGCTGCGCCTCGGGTCGT

Sequence 838

CGCGGTGGCGGCCGAGGTACTAGGCACTGAAGATACAATAAGCAATCCAGNAATNCCTCT
TTGAAGAATTTATTCTGATGAAATAGAGACAAGCCTATTAAAGTATTCAAGGCAACATTA
CTTAAATATTTTATTTTATTTTATTTATTTTTAGATGGAGTCTCGCTGTTGTTGACCAGG
CTGAAGTG

Sequence 839

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GGCCTTGTCTCATAAATGAAATATAAAATATAAAATAAAATAAAATAAAACGTTGTTGGC
AAAGATGTATTCAAAATAGTATGTAGAACTTACCTGGAAGGTAATTTTGCAATATTTACC
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GGGCGTGATAAATATTAAATGTAAATGTAAATTGAAAAAATGATATCTGTAGATTTTCAT
TATGCATTTCTTTATGAAATTTTTNGATATACACAAAANAAAATAGTCATGCATTTGCTT
CATGACGGGGACATATTTCTGAGAAATGTGCTGTTAGTCGGTTTC

Sequence 840

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AANAGCANCAAAGGAAGAATTNNTTAAGGGCAGGGGGGGGAAGCCCCNAAAAACCNGANG
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CNNAACAGGGGANGAANAAGAGGAAGGNAAAGGANNNAANNAAGAGCCACAGNCCNGGAA
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GGNGCGCCANNGGGGAGNAAANNGGAANNANNAAAAAAAAAAAGGAAAANGNGAANGAAN
GAGGANAANANNNGGGGGAGGGNAAANGGGGCGGGGGNNNAANGCCNAANAANANNNAGN
NNNNGGGGGAGGGCCNG

Sequence 841

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TGGGGCGCTGGTCTGATTGTGTGGGTGATTTGGGGAGATCTCTTCCTCTTCCGGAACCCC
AAAAGGTTGGGACAAACACAGCAACAAGCCCAGCTCCCTGAATTTCAGTGATTCATTTGT
GGGATAAAGGAGTGAATGATAAAGTGAAGGACGACTGTCCCCGCG

Sequence 842

TAGGGCGAATTGGANCTCCCCGCGGTGGCGGCCGAGGTACTCCCAAAAGGCTATGAAATN
GGGGAAAACCCCAGGTGATTCATGCCTGCTTAGCTGCAGNATNTCAGTNGCANTAGGTGG
AACCCCAAACCCAGNGCANAGTGCCAGNGTCTGCTTNGGTGAGATATGAGTGTCAAGTCT
CGAACCAAGCAACCTATCNAAAGCCTGNGACACTCCTGGCCACAGGCGGNTGGTANAGGC
ATAGNANACTATTGCCCAGGTGACGTGACTTCACAGATGCTGGGAAGCCTGCTGCCCCAT
CCAATACAATACTGCCCACTGTGCATAGAAACCAGATTCCAAAGTTAGAGCTTCGTTTTG
GCCATGAGTGCAATTTCACTGCAATGTTTTATCTTACTCAACTGCCAGGGTCAATTTAGG
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CCGGA

Sequence 843

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GAACCCTGGTATCCTAGTCTATTAAATGGTATAACAGCAGCTTCTAGTATGTAAGTTCCT
TGTCGGGAGAAAAACTGTTTTGCTCATGGCTGGAGCCTTAGCATGTTGCATCATATTGAA
CATGTAATAGATGCTCAATAAATATATTTTTAAGAATAAATAAATGTAAATGAAAATTAC
TTCACAGTGTTTCTGTAGAGATTTTATAAGATATGGTATACACAATGCATAACATAGGAA
CTGACGCTCAAAAATGCCAGTTACTTCCATCATTGNGTCATAGGCTTTTATGTTCATTAT
CCTGCTGCATCATCCCAAAGAA

Sequence 844

CCGCGGTGGCGGCCGAGGTACGCGGGGAGGTCATGCCCGTGTGAGCCAGGAAAGGGCTGT
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TTGGGACTCGGGAATTATGAGGTAGAGGTGGAGGCGGAGCCGGATGTCAGAGGTCCTGAA
NTAGTCACCATGGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCCTTCTCATTCCGATCG
CTTTTTGGCCTTGATGATTTGAAAATAAGTCCTGTTGCACCAGATGCANATGCTGTTGCT
GCACAGATCCTGTCACTGCTGCCATTGAA

Sequence 845

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ACTTGAGAGCAGTTTTTAGTTGTAGAAACTGTTTCTTGAAGTAATTGACTTAGCGTTTGC
TCTGCCTCTTTCTTTTCTTACCTAGGTAGGTAGTGGGGACTCCTTCAATTATCTGAGCAA
TTCAAATCTCAGAATGTAGTGTTGGGTAAATTGAGGGTT

Sequence 846

CCGCGGTGGCGGCCGAGGTACATCACCCTGCTGAGGGACATCCAGGACAAGGTCACCACA
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GTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCCACC
TACCAGTTGGNGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACAAGC
AGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCA

Sequence 847

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CAGTGGAAAATGGGTGAATCTGAGATGCCTGGAGGCGAGGGGGAAAGAGCACATCACAGA
GGACAACGTCCANNGGGACACCCTTTTATA

Sequence 848

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GTTGTTTCTGGAGTCTTCCAAGGAGAATTTCTCACAGTGGACCTGATCTCTGGGCTGATG
CTGGGTTCCTTGGAGCTCATGATTTTGAGAGTGGTAGACATTTCTGGGCTTCCTGGGGAT
GTGCCTGCTGGACTGCTCCCCGTCTCCTCTGCTGGGGCAGGCCACGTGGAATTTCCTTGT
GCTGCCTGGCTTGACATCTTTA

Sequence 849

CCGCGGTGGCGGCCGAGGTACCTGAAGAATCTCTCTTCAGCTCTCTTCTCCTGGAAACTT
GAGTGGGGCAGGAGGAAAAGCGGAGCTAGGTGTCATTTTAATGAGGAACATACTTGTCTC
CTCCATTTATCTGGCCCTCCCTGATGGCACTCCAGAATTCCAATCCCACACGATTAACAA
CATAGTTTCCCTTTTCTGCTTGAAGGTCCATTCTCCTCTCAATTTCAAATCACCTGAGAT
ACAAAGCTGCATTTCCCCACAAGAACCAGTTCCCTCTCCTTTCCTTCAGTGCTACTGTCC
TTCTCTCAGACCACCAAGCTTAAAAACTCCAGAGGCTCAAACAGCAAAGATGGCAGCCCG
CTCCTCCCTCTGGGGAGTTCTGGCCCAGGGAGTTTTCAAATTTCTGTAGGCGGAAGAATA
CTAGCGGGGAGTGGCTGGAGACCCCAGTTGGTAGGGNTCCACATTTGGGGGAAGTGAGCC

TABLE 1

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CAAGCTTTTTN

Sequence 850

CCGGGCAGGTACATGAAAGTAAGATCACAACCACAGGAACCACACAAAATTCAAGGCACC
AGAGGAGCCCAGACTTGGCTGGCAATGCCTGTTTTGGAGCTATTCCACATTTCTGGAAGT
CAATGGGAATACCGGAATATGAAAACACTATGAGGCCGGGCACAGTGGCTCACGCCTGTA
ATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCATGAGGTCAGGAGTTCGAGACTAGC
CTGGCCAACATAGTGAAACCCCATCTTTAATAAAAATACAAAAAATTAGCCGGGCGTGGT
GGGGGGTGCCTGTAATCCCAGCTACTCCGGCGGCTGAGGCAGGAGAATTGCTTGTACCTC
GGC

Sequence 851

CCGGGCAGGTACTTTTTTCTTTTTTCTTTTTTTTTTTTGAGTGGGGGCGGGGTTTCGCCA
TGTTGGCCAGGCTGGTCTTGAATCTCGGGTGATCTGCCCGCCTCGGCCTCCCAGGGTGCT
GGGATTGCAGGCGTGAGCCACCACGCCCGGCCTCGATATATTCTTACAGTGGAATACTGC
TCAGAAATACTGATGAATCTTAAAAAACATGATGTTTAGCAAAAGAACCTTGGTATAAGG
TTCTTGGTATAAGGGATACATACTCTATGATTCCATTATATGAAATTCTAGAACAGGAAA
AACTATAGTGAAAAACAATCAGATTAGTGGTATCTGGGGTAGAAAGTAGGAGGAGATTGA
TT

Sequence 852

CNANAGGGCTTTTTGGGGGCAAAACCGCGGNGGCGGCCGCNCNAGAACNAGNGGANCCCT
NTTGGGGGGGGAAAAAAACCCCAAGCCCACCGANACCGNCGACCNCGAGGGGGGTNCCGG
NACCCAGNGNNNGNCCCCTAAANAGAGGGNNAANNGCGCGCNNGGCGNAANCANGGNCAN
AGCNNGNNNCCNGNGNGAAANNGNANCCGCNCACAATTTNTCTTTTNTAGNCGAGCCGGG
AGCAGAAAGCCCNAAGAAAAAAGN

Sequence 853

AGGTACCCACAGCCCTTTCTTTTGGAATTCCCTAGAAGGGGTCTGTGCCACATACAGGAA
GTAGGGAGGGTGTCTTTGCAGCATATTTCTTCTCTTGGAGTTAACTGCGAACGTTGCACG
GCGACCTCTTGATCCATTCTGTGAAAGCCCCAAGCCTGTCATGCAATAAAGACGTCCAGT
TTCACCGCAGCAGGGAGGCCGCATGAAATATTCCACTTGAACAAAACCACTTAGCAGTTT
ACATCAATGCTTACCCTGTCGCATTGAAAGTGATGTGAACCCACACCCAAGAGCCCCCAA
ACCAGCACGTTGATACCAAGTTTCCCCAGCTGCATCCAAATCAATTCCTTCTT

Sequence 854

CNTTTGGGGGCTAANCCGCGGGGGCAGCANCNNCACCGGCAGCGCGCNATTCTTTGGGGG
GGTGNAAAACCCCCAGACCCCCGAGCNCNNCCACTCGNCNCACCANTNTAGAGACTGGGG
CCGNTCCNCNnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTTTTTTTTGGGGTTTTNAGNGAGGGGAANCG
CNCGCAAAAAAANAATCNCGGCCANAGGGGGGCCNGGGNGAAANTGTTANCCGNGCACAA
NNNCACACAANANACGAGCCGGGAGCAAAAAGAGGAAAAGCCNGG

Sequence 855

CCGGGCAGGTACGCGGGCTACACACACAGTTCGGATGCCAAGGGTGACACCCCATTCCCT
TCACAAGAGGCGGTTCTGTCACAAATCAGCACTCCACCCCCACCACACCTCTCAGTGAAT
GAAGTGCTGGTGGTCTCACTCCCCTGGTGACCCTTAGCCGTGGGATGGGGTGGTTACACT
AAGGCTTCAAGCTGAGAATGGCCATCATGGCGGGAGGCTGTTTGCAAAGGCACCTTCTGT
CATCCTGGGGTTGGCTAAGTCAACTCCACCCCTTCCCAAAAAAAAAAAAAAAAAGTACCT

Sequence 856

GCCAGGATTCAAACCAGGGANTTTGCTCCAGCACTCCGGCTCTTAACCTCAACCGTCTGC
CTCTCCACAAACACCAGGATCAACCACCAAGACCAAAAAAACAGTCTCACAAACCATCAA
ACATTGCACTTGGTGGCTCAGGACCTTAGCTTCGTCTTAAAGGTCCCTGTTATGCTTTTT
CTTTTTGCCCCAGTGTGGAGTGGTCTTCGTGTTTGTGAGTGCAGGGGTCAGGGGTTGTGT
CTTTTCTTCTTGTNCCCTTCCAAGAGGTGACATGTATCCTTGATACTGGAAGGGCCCTT

Sequence 857

TABLE 1
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AGGTACGCGGGCACTCCAGCCTAGGCAACAGAGCCAGATTCTTTTTTTTTTTTTTTAAAA
AGTCTTTTAAAAAATTCTTTTATTGTGCTGATTTTATTGTGTCATGAAGTGTAATATCGC
ATGTAGGTATGTGTCAAGTATACAGAGTGTCAGGCATACGGTGTTCAGTCATAAGCAGTT
CTGGCCTTTGGCCCTGCACTGTTTGTTGGCTTTTTAGGTAGGAACCTTCTTAGAGTAAGA
CTGTCATGCTAAAATTGTAGCAATCAAATGTGCCCCCCATACAACTCATTTGAGGTTGAG
ATTATGTTGCTAGAGTGGAGGAGATTGGAGTGTTCTAAATGCTAACAGTTTGTCTTGCCT

Sequence 858
GGCGGCCGCCCGAGAACGAGGGNAGCCTTTGGGNGGGGGGAAAAAACCCAGnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnAGGNACCCANCGCAGAGNCCCCAAAAGCGAGG
GGCAAGNGCGCNCAGGGCGGAAANAGGGCNACAGCCGGGGCCGGAGCNAAACAGGCACCC
GCCCACANTTNNTTACAACANACNANCCGGGAGCATAAAGCCGCAAANCCAGNGGAGCCA
AAGGAGGGAGCGAACCCACAG
Sequence 859
GGCAGGTACAACCTCCATCCCCTGGGCTCAAGCGATCCTCCCATTTCAGCTCCCCCTGTA
GCTGGGACTACAGACACACACCACCGTGGCTGGCTAATTTTTGTATTTTTTGTAGAGGCA
GGGTTTTGCCATGTTGCCCAGGCTGGTCTTGAACTCCTGAGCTCAAGTGATCTGCCTGCC
TCGGCCTCCCAAAGTGCTGGCATTACAGGCATGAGCCACCATGCCTGGCTGGGACATTAT
TCAAATTGAAGTGAGGACATGATGTTAAAAAGTTCTGGGCAAGTATTTTACAAGTTAAAA
TACAGATGTAAGACTTGACTTGATCAAATGCCCAGCTCTGTAATTTCACCTAAATTG
Sequence 860
AGGTACAACATTGTGAAAATTTTCCTATCATTTCCTCTAAAACTCTGCAGGCATGGAGGC
TGTCTGCTGAGATATAGCAGGGAACAATTTAACCCTTTGTTTTGCACCCACAAGATGAGC
ATTACCAAATTCCCAACAGAGACATGCTGGGGCTGTGCTGTGCCTCCACCCTGCCCCCTC
CACAGCCAGCTCCGCGTGTCTCAGTCTGTAACTGATAGCATTCCACTTCCTGCCTGTACC
TCCCCGGC
Sequence 861
CNGCGGCGGCCGAGGNACACNNANAANAACCTTTTAAGGGGNGGAAAAACCCAANCCCCC
CGNCCNACCNCAGNGACNNGANGNATNTACNGGAAACAGGGCGCAGCCCNAGGAAGGACA
GNNGAAGNCCNNACNGNGCAAGNCNAAANNNNAAGGAAAANNAGNCCCGCGANGAGNNNC
CNCANGCTTTNNNTNTGCGGGGACCAGNCAGGGGNCGNCCCCGACANAANCAGGGCNCGC
CGNCGGNGGNAGAGNCACNNNGCAGGGGNNGGNGAAGCNGCNCCCANCCANGGACCNNGG
CCGCNCNAGAACNAGNGGANCCCCCGGGCNGCAGGAANNCGANANCAAGCNGANCGANAC
CGNCGACCNNGAGGGGGGGC
Sequence 862
AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTGGNAGAGATGGGGCTTTACCATGTTGGCCAG
GCTGATCTCCAGCTCCTGACCTCAAGTGATCCACTCGCCTTGGCCTCCCAAATTGCTGGG
ATTACAGGCGTGAGCCACCGCACCCGGCCCAGTCTTCATATTTATAAATAAAGTCTTGTG
GGAACACAGTCACATTTATTCATTTACATTTTGTAAATAGCTGCCTTCAAGAGGTAGAGT
TGAAAGTCTTTAAGACAAAGATCAGGTGGCTTGCAAAACCTAAAACGTCTGGTCTTTTAC
CTAAAAAGTTTGCCAACCCCAAAACAAGAATATATTCGATTGTAATCTTTACAAAGGTGT
TGGCTATATTTCAGTGTGT
Sequence 863
NCTATAGGGCNAATTGNAGCTCCCCGCGGTGGCGGCCGAGGACAAATTCAGTCCCAATAC
TCAATACGTATTATAGATGACTATGAGTGCAAACCTTAGGATGNGATTNTCTGAATAATN
GNTCTTTGTAGGATTTGGTTACATTATTTAAAATGAAAAAGATCTAGTTTTAGTGTGAGC
TCAGTAATGNTAATNGGTTAAGTTCATTGCGAATCTTGAGTTTTAGATAAGTAGTTATTT
TTTTCAATATCACTTCTGTTTTTAGTGATATTATATCAAGAAACAACGTATTCAAGAACC
ATGGCTGACAGTGCCAGATATACTTAGGGATAAACATCAAAATGCAATTATAGTTGCTAT
AACGTTAGATACTCGGAATCAAAATTTATTTGCANGCTGACTTGATAAACTAAATGAA
Sequence 864

TABLE 1

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TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGAGTCAGCAG
AAATGTGTGCTTTAAGCAGAGTCACAGGGGCCTGGGGCTGAACTGAGTCATTTCTCAAAG
ATATCCCTGCCTGGGATGATGATGGCTCTAATTGAAGCTCTGGCATCATCTGGGGCTTTA
TGAGCCAAGGGAGATAAGAAGAGCCACAGCAAAACCCTTGGGTCTACAGTGCAGGCTGCA
ACCAAGGCAGCATTTGCTAGAATATTTGTGATTATGTGTTCAACCTACAACCT

Sequence 865

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATATTAT
ACCTTTTTATTGTTGTTATAATTATTATGGGGTATTTCTAATTAATATGATGTTGAAACC
TGTTTGGCACCTTCTGGAAGCTACCAAAAAAATGACACTCCATTGAAGTGCTTAAAAGCT
GTTCTCATAAGAATTCTACTGGCCTATTGTAAAAAAAGAAAAAAAAAAAAGAAAAAGAAG
AAAGACACAAAGAAAATAATCTAAACACCAAAAACTAAACACAATTCCAATCCTTTTTCT
GTACCT

Sequence 866

ACTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGGAAATCTGGACAGTG
CTGCACAGATTGATACATTAGCCTTTGCTTTTTCTCTTTCCGGATAACCTTGTAACATAT
TGAAACCTTTTAAGGATGCCAAGAATGCATTATTCCACAAAAAAACAGCAGACCAACATA
TAGAGTGTTTAAAATAGCATTTCTGGGCAAATTCAAACTCTTGTGGTTCTAGGACTCACA
TCTGTTTCAGTTTTTCCTCAGTTGTATATTGACCAGTGTTCTTTATTGCAAAAACATATA
CCCGATTTAGCAGTGTCAGCGTATTTTTTCTTCTCATCCTGGAGCGTATTCAAGATCTTC
CCAATACAAGAAAATTAATAAAAAATTTATATATAGGCAGCAGCAAAAGAGCCATGTTCA
AAATAAGTCATTATGGGCTCAAATAGAAAGAAGACTTTTAAGTT

Sequence 867

CCGCGGTGGCGGCCGAGGTACATAACATGATATCAAGGAAATGCTTGAAACAAACTTTCA
CAATAAAGTCAGAAAAAAACTGTAAAAATTGTCTGCAATCCAAGAAAAAGCACGTGCCCT
GTGTGTAGGGGGAAAGAGGGAAAGCACTTGCAGTGTGACTTTATGTGGTCTTTCCCCAAG
TATTGCTACGTTTTGACCTTTGGCCCAACTGAACAGGTGAAATGCCCTTCACATAAGTTT
CAATCCCCAAGAAACTAGCTGGAATGCAGGGGACTGTAGACACACTCCTGGACCAAATGG
CATCGACTCTCAGAATCCAAAATGGGCCCTGCCCTCATTCTGAGCTTACGGCCCCAAGCA
TATTCTAAACAAAGCTTTTTTAA

Sequence 868

CTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACAGGATATCAC
CTGAATTATTAATGAATGCCCAGGAAGTAATTTTCTTCTCATTCTTCTAAAACTACTGCC
TTTCAAAGNGCACACACACCGCGTNCACATACACTGCATTCGTTGCTCCAGTATAAATTA
CATGCATGAGCACCTTTCTGGCTTTTAAGCCAATATAATGGGCTGCAAAATGAAGACACC
ANAGTGTATGCATACAAATCTCACTGTATTAAAGATGCAGGTTTTCTAATTGTACCT

Sequence 869

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGGCGACGCGCGGGACAAAG
GGAAGCGAAGCCGGAGCTGCGGGCGCTTTTTCTGCCCGCGGTGTCTCAGATTCATTCTTA
AGGAACTGAGAACTTAATCTTCCAAAATGTCAAAAAGACCATCTTATGCCCCACCTNCCA
CCCCAGCTCCTGCANCACAAATGCCCAGCACACCANGGTTTGTGGGATACAATCCATACA
GTCATNTNGCCTACAACAACTACAGGCTGGGAGGGAACCCGGGCACCAACAGCCGGGTCA
CGGCATCCTCTGGTATCACGATTCCAAAACCCCCAAAGCCACCAGATAAGCCGCTGATGC
CCTACATGAGGTACCT

Sequence 870

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGG
ACCCGGAAGTTTAAATTCCGCTCCCTCCACGAAAGAGTTGTAGTGAGTGAAAATAAATAT
TAAAACACACGGAAATGTATTTTCCTGGCTGCAGCACCNGCCATCTTGCCTCGGNAGGAC
TCATTTTNAAAAACAGCAGCTTCTTGAAGCCCCANAACGCATTCCTGTGCTACGG

Sequence 871

CCGGGCACGGTACAGAGCCCAAGACAAAAGATAGGCCTGTGAGGATAACATCTGGTATAT
CTGACCCTTCCCAGCATGGCCAGGAGGCACAGCCAGGCCAGGGAGGGCATACTGGGTTTG

TABLE 1

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GCTTTGCCCTGCAGCTGTTGGCCTAGGTGCTGCGGTCATACATATGCCCTNAGGCCTTTC
CATGGCTACCTACCTAGAACCCAGATTCTTTTTTTTTTTTTTGAGACGGAGTCTCGCTCTG
TCCCCCANGCTGGAGTGCAGNGGCGCCATNTNAGCTNACTTGCAAGCTNCGNCTTCCGGG
T

Sequence 872

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATTCCGGGTCATCCGCA
GAAATTCCTCATAGATGGTAACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTACACA
GGGAGTCCACCCCGGTGTGGTGCCTGCTTGNGGACAGACCTGAATGTTGAAACTTGACAG
TCAGAAAAATAACTCTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGCGCATCCTCAATA
TTCCTTTTGTTCCTCTGGNAATTGGTGGTGCCTGGCTGGGCTTTGTCCTGGGAATATGGT
AGGTTGGTGATGGTAGAAATTCAGGTACGAAGTGCTGGGTGCTGGAGCTGCTTGTTGGTT
GATGAACTGATGACTCC

Sequence 873

ACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCCGCCCGGGCAGGTACAATGCTCACT
GGGAACCAAAGTCAGGCATGGGGCTGGGCTTTAAGGAGCACAAACAAAAAGGAGGGACTA
GAAAACTTCAGAAAGGTATTGGTGGGGGATGTTGCGGGGGGACAGGGGACAGCGAGGATG
TGGGATCCCGAGATCGTCCAAATCCCTATGTGTAGACATATGTGTATAAAGGCCTTTAAG
AGACTCAGGCTGATGGGGTATCTGTAATAAATCAAACATAATATAACAGCACGTCAAGTG
ATAAGGGGACTCTGGAAAAACAAGCAGCAAAAGGAGCAGTATCAAACTCCACAGAAATTC
ACAAACATCAAGACACCAAGAAAGCTGCATTNATTTAAATCAAGGTGACAGGCTGGGCTC
TGTAGCTCCAGCCTGTAATCCTAGCACTTTGGGAGGC

Sequence 874

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTT
TTTTTTTTTTTTTTTTTTTTGGGATGGAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAATG
GCACAATCTTGGCTCACTGTAACCTACACCTCCCGGGTTAAAGAGATTCTTCTGCCTCAN
CCTNCTGAGAAGCTGGGACTACCAGGGGATCCCGCCCCACCCCGGGTAGGTTTTTTGTAT
TTTTTTAGNNAGAAGACAGGGTTTTCCNCCCATATTGGGCCCAGGGCTTAGGTCTCGGAA
CCTCCTGGACCCTTGNGGATCCTGCCCACCCTTGGGCCTNCCAAAAATGCTGGGGATTAT
AAGGNGGGGAGCCACTGTGCCCGGGCCAACAATAAATTTTTTTAAGGGTTAGTCAAACCT
AACAACAAAANTTTAAAAGGTCAATCAGTAGTTCTAACTTTTTTTTTTT

Sequence 875

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAGACTTTGTAA
ATGTGATTCAGGGCCCCCAGCACCCCTGTGTCTGCAGAGTGCCTTCAAAACTCAGCTGTT
CCGGCCGGTGCCAACCTGTGAACTTCCCACCATATCCCAGAATCTGCTATTCCCCAAACC
ACTTCCCAGTTTCCTTTCAGTAATCTTTCTGAAGGAGCCAGGACAATAGGGCCTGTTGTT
TAGTGAATTTCTTTATTATTTTCAGCCTTTAAAATGTAATTTCCATCTCTTGCAATGAAT
TTGTTTCCCTTTTTTTTTGCTTCATTTTGTTTAAATTTTCAGGTATTTAGCTCCCCTTTCA
TATTATTTTTAAATTTTTTAATTACCTGTTGTAGGGGTGTTCCTCCAGAAGCAAAGAGCA
AAATTTTACTGTTGTGATGTACCT

Sequence 876

CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGATTGA
TCAAAAGCTTTGTAACCACAGGAAAAAATAAACTCTTCCATCCCTTAAAGAATAGAATAG
TTTGTCCCTCTCATGGGAATTGGGCTGTATGTATATTGTTCTTCCTCCTTAGAATTTAGA
GATACAAGAGTTCTACTTAGAACTTTTCATGGACACAATTTCCACAACCTTTCAGATGCT
GATGTAGAGCTATTGGGAAAGAACTTCCAAACTCAGGAAGTTTGCAGAGAGCAGACAGCT
AGAGATAACTCGGGA

Sequence 877

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGTCTTA
AACTGCTCTGCTCTTTAAACCAAATACATACACACATACACAGATATAGTTAGATACAGA
TGTGTGTGCATATAAAAATATGACACTCCTTAGTAAAATATTCCTCTAGACCTGGGGTTC
ACACATCCCTCCTCCTGATCCGTGCTGGTGCCTACTCAGGCACTACTTTGCAGATTTCTC

TABLE 1
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TTCTATGAGCTAAGGTTTTTCTGAGCTAAGGTCAAGCGGTGACTTAGCAAGTTGAACGTG
TAATGAACCAAACCTGTTTTTCCATGGAACCAATAATAATTAATCTAGAGTGAGCCATTT
GGCCTCCAGAAACAAAGAGATTTCCATCACAGAGTGTTGGTGAGGGGTCATGAGTAAGGC
GGGGGGGCAGTGAGAGCAAGCTGTTTTATTGTGAGAGTAGCAGGCAGGCTGAATGAGAAG
GGGTAGCTGTT

Sequence 878

CTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGGTACCATTCC
GGGTCATCCGCAGAAATTCCTCATAGATGGCAACTCTGTCTACTCTCCGAGCCAGTGGCG
AGAAGTTACACAGGGAGTCCACCCCGGTGTGGGTGCCTGTTGGGGACAGACCTGAATGTT
GAAACTTGACAGTCAGAAAAATAACTCTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGC
GCATCCTCAATATTCCTTTTGTTCCTCTGGTAATTGGTGGTGCCTGGCTGGGCTTTGTCC
TGGGAATATGGTAGGTTGGTGATGGTGAAATTCAGGTAGGAAGTGCCTGGGTGCCCCGCG
TACCTCGGCCGCTCTAGAACTAGTG

Sequence 879

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTTTTGGGGAAATAACAGGGGAGAGCAAATTTCTAAAAACTTGGGGTTTTATAGTAATTT
CTGATTTTCATGTTTAGAAAAAGAAATCACATTAAAAATATGCTTTTTTAAAATTTTGAG
ATAGGATACACTATAATATTATTGTAGTCCAGAAAATCTGTATACTATAATTCCTAGGGA
AAAAGAGAAAATTATTAGTGTCAAAATACCTATAATTCCCACAGTTACCATATACATTTT
TAAAAATTGTTTAAATACACAAACAATGATGATGCTGTCCTACTAGAAATGACAGGAGCN
AGAGCTTTTACCTTTCTTTCAAAATGCCTTTAACCCCTTTCATTATTNCCAAGGTTCAAA
ATTTAAANATTCTTTTTTTT

Sequence 880

CNCTACTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATGGCGCAATCT
CAGCTCACTGCAACCTCCACCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCTGAG
TAGCTGGGATTGCAGGCATGTGCCACCATGCTCGGCTAATTTTTTGTATTTTTAGTAGAA
ACGGGGTTTCGCCATGTTGGCCAGCTGGTCTCCAACTCCTAACCTCAGGTGATCCACCCG
CCTCGGCCTCCCAAAATGCATCTCTGGTCTTTAAATGCCCTTTGCTGTATATTCTATAAC
ATCAAGTCTCAGATCTGGTTTGACCTCAGTTGGCCTCTTAATAGTTTTCCCCTATGAACA
TTCTGGTCTCCCAGTAAGCCTGTAAGCAGCTGAGACTGGGAAACCATCTCTTATATCCCA
CATCGTCCCATG

Sequence 881

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCACACTGGTAAAGAGTGGCAAGGTAGC
CTTTGTAACCAGATATATCTGATCTCAAAATCAATTTTCTTAATTTAACCCACGTCAGTC
AGTCAAATGCTAAGGCTCTTCAAGCTACACTTGGTTCCTCCACCCTCTAAAAGGTGAGAA
CTCAAGAGAGCTGGGTTCTTTGGGACCTTATCATATTTTTCCCCTCCCTAGGCCTTGATT
TCCCATTTGGAAAATAAATCAGTGAGGGCTTTCTAGTTAAAAATGCCAGTTGAAGCCAGG
CTTGGTGGCATATACATGTAGTTCCAGTTACTCAGGAGGCTGAAGTGGGGAGGATCGCTT
GAGCCCAGGAGTCCAGTCCAGGCAACATTGCAAGATCTCATCTCTAAAAACTAAAAAATG
GACCAG

Sequence 882

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAATGAATTGAC
AAATGGAAGAAAATTTAAGGAGAGTAGCCTAGAGAACTCATTCTAGAAACTAAATAACTT
AAGTCAAAAATTATTTCCTATATTGCCTCAAGCCCTGCAGATAGCTTTGCTATGTTTGTG
TATTTGCACATTGCACTCCAGCCTGGGCGACAGAGACTCTGTCTCAAAAAAATAAATGGA
ACAATCACAACAGAAACATTCCCTTATTCACTGAACATTTCAAACCCTGAAAATGTGTAA
TGAGAAATGACAAATTTTTAAAAGTTTAATTACTAAAGAAGACAAAAAATGTCTATTATG
AATAGACCAATTCTCAATTGGTAGAGGAACTTTGAACTGGAAAGGAACCCTAAAGAAATC
TCCTGTCTACCCCTGTTATTACAGATTAGAACCCGAAAGTCCAG

Sequence 883

CCGCGGTGGCGGCCGCCCGGGCAGGTACTATAATTATAATGATTTCAGATAGAACATGCA

TABLE 1
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ATTAGCCTTTTGAAATCCAACTTCTGTGCAAAATTTTAGTATCAGAAAATACGAGATTTG
CAGGGGGAAACATCAGTAAACTACCATTAATGTCAATGCCCAGTTTTGACTTTTGTTAGC
CTGACACTCCCAAACAGTTGTAGAATCCGATAGATGACTGATGGCAAAAGATTGTGAACA
TGTGGAAGAAAATCAGTGGGATTCGGTGCTGATGAATAGGTTGCCTTCAGAGTATTATTG
ACAGACAGCTTGTGGAACTAATTCTTTATTTTTGATGTTGTGGGAATTAACACATCAATG
GTGGTTATGGGAACTACCAATGGGTTCCTACAAT

Sequence 884
CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAATTCTAAATTATAAG
AAAATATACATTTGCACTTATTAATATAGAAATTCATTTTGTGTATATTTAACATAGCTT
TTAAACTATTTTACATTAGCTACTTTCATTATGGTTTCTTGAACTTCTGAAAAAAATTAG
AAATGTATTAAACTTATCAGTAACATAAAAACTTATTTTGTTTCACCTAACGAATACTGC
GTTTGTAAAAATAAATTTAATATAGAATATATTTTTAAATTAAATATTTGAATATAAAAT
AGCTCTAAGAAAGAAGCAAATTATCACTGAACATATTTCTTATTATTTCTGGCTTTGAAT
TAATACGTAACTTAAATTGGCTTAAATGATCCAGAATATTGGAGGAATATGATACTTTCA
CATAATATACTATGAACCTGTTCATATAACTCTGGATTGGCTACCTAACCTTCTGNTTTA
ATG

Sequence 885
CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAGTCACACCCAG
CCAGTCAATAACTGAGAAATCAAAATAAAATAATAATTTCAAAGAATTACATAAATACAG
GGCCTTTTGAGATTTTTGGCAATTGTAAACAAAAACGAATGGTTTTTACAATTCAGTGTA
ATTCTACGAATATTTATTTGGCACCCATGTTAGGCACTGAGGCTACACAGCAGTGAAATA
GGCCTAGTTGTTCTCAACTAGAGAACATAGTTGGTTAATGTAGCTGCACTGAATTGTAAG
CTGTTTAGAAGATAATATACCCTGAGGCTTTTTAAAGTATACTATTACTATAAGGAAGTA
AAATTATTTTATACTTATAAATTTTGTTTTGGATTATTCAACTGAATTTGGAGTGTTCAG
AATTTTATGGGCGGTTGGGGACAAGGAAGAGGTATAATGCTATTTTTTTTCCTTTTCTTT
TTT

Sequence 886
CTACTATAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTT
TTTTTTTTTTTTTTAAATTTCCACCGGTGCCGAGGCCTCAGTGGAGCCTGGCTGGCGGCT
TGTTAGAGCCTGCAGCCTACCTGTCCTGCATAGGAATGAAGCCGGGAGGAGTTACATGAT
ATGCCCTCGTTGCAGGCCGGGGACACAGCTACCGCATTCAGAGACCAGGAAACAGAGCAA
AAGCTGTTCTCANAGTGCGGCTGAGCGAGGAGCTACAGGGGAATGGNGGGGGCCAAGCTG
CATGGAAGATTGTCCCATTAACCTGGCTTTTTACCAGGGTGGTCCTNTCCCTAACCCCTA
AGAATCACACCCTGCATCCAAACGGCAGCAACCCCAAAA

Sequence 887
CNCTACTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTT
TTTTTTTTTTTAAAGCTGGGATATCTTACAGAGGAAGGAAAAATTAACCTTTTTTACTTT
CTTTCTCACTTTTTAAATCAGCCAAAGTCAAAGCCCGTTTGCCAACCTGCATGTCCATGC
CTGTAAGCCCTTCTNTTGGCCAAGGAAGAAAGGAAGAAAGAAAAAAGAAACCCAGGGGCC
TGTATCCCCTGATTAAACACAGCACAGCACTCCAGGCAGACATGCCCGGNGGCGGCTCCT
TTGCACCATTGACCTCAGGCCAGACACCTCAGCGCCAACAATGGGACCTCGGCCTTCCGG
CTAGGTTTGCCCCAGGCTGGGCAGGAAACCAGCTCGGCCGCTNTAGAACTAGGTG

Sequence 888
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGAGACATTGTGGCTAGCCAACCACA
TGGTCAGCCTCAAAGTTGAGAGGCTCAGTAACCCTCCTATCCCTAGAGAATTCCAAAGTG
TGGATGTAATTTAACCTAGGAAAGCCATTGGTGACTATCTGTGATCCTCTGGAAAGTATG
CTATGTTGGGGTATATCTTTGCATCCAAAGCCAGAGGGGAACCACAATGGCCTAGTAAAA
CCGGTGGGTCCTCAAATGCCCACTTAAGCCTCTGGCCTNTTGGAANTTTGACCCATAGTG
GGCCGTTCAGCTTGATTAGAGCCGGGGAAAGAAAGAAAATATTGNCATTTTTTTTNTTGA
AAAAAAATTT

Sequence 889

TABLE 1
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CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGATCTATGCTGC
TATGGGTGGAGAATCGACATCCTTTGAAACTGGCCACAGGCAGAGCTAAGAGGATGACTA
AAAGGTCCCTTGGGTGGGTGCTAATGAGCAGGGGCCCAGGAAAACCTCTGTCTTCCCGGA
GAGCCCTCTTGCATGAGTTTCGGCTTTGCCAAGATTCCAGGGACTTGAGGACAGCTATTG
AGTTATGGTTACGTGACTGCCACATTGGGGCTTGGAGGCATCTGGCAGATGGTTGGGAAT
GGGCTGGCACCACACTAATTAGGCCACGATGATCCAGTTTGACTCAGGGAAACCCAGAAG
TCATAGTNCTCTTTGCAGAATGACACAAGGATGTCAACATGCTTTGNTTGTGTACCTCGG
CCCGCTCTAGAACTAAGTGGGATCC

Sequence 890
CCGCGGTGGCGGCCGAGGTGCATATATATATATACACACACATATATATATTTATGTATC
TTTTAAACATATAATTACTCTCTTTAATTCATTTGGACTTTTCATCTAAACTTGCTCTGT
TTGCACAGGTCTGTTAGGGTAAGATATGTTCCTACCTTGAGAAATGTTGTGAATATCTAG
CGAAACACCAAACATCCTCAGCTGACTAATGTGGTATCAGACTTTCTGGTTGCAAGGTAG
GGGTGAATAAGGCAGGATGGGGTGCGGGGGTGGTGCTGGAAGAAGACATGGCATCAGGTT
GGGTTTTGCAGGATACTGAAATTGTCTAGGGGCCTTGGCTGTGCAAAGAGCCTTTCCGTC

Sequence 891
ACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTACGCGGGATTTCT
CAGATAGTTATGCGCAGCTCCAGGCACCAGATTCTGTGCTGGGTGCAGGCAGGACCTGGA
GGGCGTCCTCAAGTGTTGATCTGCAGGGACTGTCTTGATCTTTCCAGCAGTGTCATTGTG
GGCACGTGACCTGAGCTTTCTGAGCCTATTTCCGCATCTGTAAAGTGCTATCCACTTCCA
CCTCCTGGGCTGTCGTGCAGATGTAGGAAGGAATTGCACTCACACACTCAGCATGAGACA
GGCGCTCAGTAAAAGCCCGTCCAGGGGATATGAGATCAGTGAGGGATAGGAAAGCAAGGG
TGGGTAGAAACAGCAAAACCCTTTCCCA

Sequence 892
CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACCAAGCATTG
GACACACAAAAATACAGGCAGCTTCTTCCCTCAAGGAGGTCACAGGTGGGTGTGTCCATA
GCAAAGCTGGGAGGAAGTTGTATGAAGGAGCCTGAAGACAATGGGGAGCTAGGGGAAAGT
TCTGAGTAGAAAGGAACATGTGGACAAAGGTTTGAAATGATGAAGACTGATTAGGAAGTT
CATATTATGAAGCATAATTCAAGCTTTCTCTACGATGTTCAAATCCCATCTCTCCTACTT
ACTAGANAGGTGACATTGGGCCAAGTTACTTATCTCCTCTGCTCCTGTTTATTTGTGTTC
AAAAACAGGGACCTCTCTCACAGTGTGATTNTGAAGACTGGACAAGAAAATGGGAGGTTT
TG

Sequence 893
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAGTTTGGAAGTTT
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ACAGATTAGCAATAAACTCCTTAAAACCCAAAAGGTTTGGGCTTCTGTTCCTTTCACTTG
CAGTCAGACATGGAGTTAGTGGTAGAAGAAACAGAAGGGGTAACCTGCATGGTGACAGCT
ACTGAGGGGATGGATAGGAAAGCAGGCTGAGTCCCTGGGGCCAGTGGTTACCAAAGCCAA
GGAGAGGGCAAGGGGAGCCCAGTGGGCCTGG

Sequence 894
CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACATCACCCTGCTGA
GGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACACGACACATTCC
GCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGT
TCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATG
CCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGG
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AGGAACAAAAGGAATATTGAGGGATGCGCTCAACCAACTNTT

Sequence 895
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGGAGTAGTCTAAAACAA

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GTGACTTTACTACTTATTCTTCTGCATGTCCTTACCAGCTTCTTACCTTCTTCAGGTTGA
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CTACTGGTCAANGGGNAACCATTTCTACCTGGCGGTTTATTACACCTTTGCTAGGCTTCT
TTTTTCTTTTTCATTTTTAAAAAATAATTTTT

Sequence 896

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTTCATATCCCAGTTCTA
GAATCAGTTCATTTTCTAAGGAGTCCTGGTTCCTTTTATTGGAAACCAAAATCTGGGCAC
CAGGTGTGCTCCCATTCTAGTCGTTTTCTGACCACATAACTGCTAACAAAGATGCTTCAC
TCTGGCTACACTGATGTGAACTTTGAACTTTAGCAGAAGAGCTCAGCTCTAGAGAACAAT
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GCAAAGAATTTTCAGTATGAATGAAATAAGACAAACCATCAGGCTTGCTGTATTGTAAAC
CAACACAATATAGTTATAACAGATCTGTAGAAGGGATCCTTAGAATAAGAGAGGCATTTG
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Sequence 897

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TTTTTTTCTTCATGGCTACATCTGAACAGCTACTGAGGGATATATATGCCAACTTTGGGA
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TTGGAATAGCCACAAGTTGTTGTAGCCAAGGTTTGNGNGNGTTTTTAATACAATTCTTAA
AATTTTAGTAGGCTTCTCATCTGTANATAGATTTGAAGGGGNGGGGTTGCCCCTCCACAC
CTGTGGGGTGTTTNTCGTAAGGNGGGACCAGAGACTTAGGA

Sequence 898

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CCCCCAACCCTGCCCACCAGGGCTCACACTCTACAAAACCCTGAGGGCCTAGAAATCTGT
AAATGCATCGNCAAGCACTGGGGCTGATTTGCAGTAATTCTCTAAGCAAGGCAAACATGA
TCTAGCTTTGAAGGCAGCATGAAGGCAGCGGGTTGGNGAGAACAATCTNTCCTTAAGAGA
AGAAGAAACCTGGGGCGGANGGAGTTTTCCCCGG

Sequence 899

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TGGAAGAAAAACATGCCGGCGCAGCCTGTGCGCTTTGTCAGGTTAACAGAATGGAGTCCT
GCTCTGGCATCAGTCAGTGCTGTTGTCCGAACCCTCTGTGGCTCCTTCCTCCCTCCCTGG
GGCCCAGAGCTGCAGACGCTAGAGGGGTA

Sequence 900

GCTNCACCGCGGTGGCGGCCGCCCGGGCAGGTACCCTAAATGTTAAACTGAGGGATGAGT
GAAACAATATCAGGATTAATAAATAAACACATTCTTGAATTCCATCACTTAATAGAAGTG
GCCATTTGAATGCTGGCAGGTNGGAAGAAAAGAGGAGGACAAAGAACCCCAAAAGTTTGG
CATCATAACTACTGCCACAAG

Sequence 901

ATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTT
TGTATTTTTAGTAGAGATGGGGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGAC
CTTGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCG
CCTGGCCTTTCCAGGGTATTCTTTTAACGTGGTCTTATTTGCCTTTTTGAATTTAAGAAA
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TATACATGAATCTACTTAGGCCTAATAACCAAGCAGTCCTCAGTGGCAGATCAATGAAAA
GTGAAACTAAAGGCAAGTGAAGGGTAGGAGAGATTGGCCAGT

Sequence 902

GGCAGGTACCCACCTCCTCGGTCACCCACAGAGCCACCAAAGATTCCATGTCCCAGAGCT

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TCCCATAGCAGACCTGAAAAGTCCATGACCTGAGCTTTGGCCATGGTAGTGGAGTGGAAC
AGGAAATAGTCCAGCAGAGGAGTGTGGGGGAAGGGGGCAGGAGAGGCACAAGAATAAGGG
AGACCTGGACTCTGCCTTTTTGGGAAAAGGAACCAAGCTCATAGCAATTTGGCTGATNAC
ACAATCAGATTTTTCCAGGTTAAGCTTCCTTTCTG

Sequence 903

CCGCGGTGGCGGCCGAGGTACCATCTACTGAATGCCCAGTTTTGATCTATTTCTAAATGG
AGCAAACCAATTCCATCTCCTAGAGCTGGAGACTGTATCCAGGCAGTGTGTGGACAGAAC
GGACAATCTTTTCTGCCAAGGGCCTATTTGAGTGGAGCACCCCCACACGGGTTAGACGGG
TCGGCACGGGGCTGGTGGGTGAGGAACTCAGGGGTCAGTGCAAGCTGCAGACCCTCATTT
GGGGAACGCTCTCAGCACAATGCTCTTACAACTACAGGGTGCACTCCAAAATGGAGTTCA
AGGAAAAAAGGCTAATGAGAAATAAAATCTGAAAAAATAACTTAAAAAGTTTTGCT

Sequence 904

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GTGGCACTTCCCTTGTTGCAGTTTTATGGAGTGTGCGTCTGGCTCCCCAACTAGACTTGA
ACCGCTTGGGTGCATAACTCGGGACTTGACCATTTGCGTCTCCCTACGGCCAGCTCAGCC
TCCGCACACAGGGACCTGCAGAGAGTGGATGTAGCCACTGCCCCAGCGTCCCTGGGCTCT
GAAGAGAAGCCATTGCCCTTCAAGAGCCACCCTCATTTCCTGGGCACTGGTTTGGAAAAA
ACGAAGAAAAAGAGACACCCAGCTCACCTCCA

Sequence 905

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AACAGTGATCAGAGGAGAAGGACCCTTCCAGCATTAGAAGATTTCCAAAGGCTGTTCCAG
TAGGGGCTGTGGGCTTCTGGGAGCCCAGATGCCCCCTGATGGTATATTTGAGTTTGTGAG
GTGGAGGCCAGGTGGCAAGANACTGCNNGCCAATGTCAATGAAAAGCCTGGGAGGAAAAA
GAGATTTCTGGGA

Sequence 906

AGGTACTTTGCTAACCAGCATTTTGGCTGTGTTATTGGCAGTTTTCAAATTTGAATTCTC
TTGCCATCTTTTTGAGAGTGCATAGACATTTAATTTTAAGAAATTTATAGAATTGGACTT
TTTTGTCTCTATACATTTGTAGGTCAGATGCACATTTGTTTCCTGTTTCATCTTTCTTTA
AGAGCAAAAATGTAAAGTTTTGTATGTAGAGGATAATTGTATGATGATGATAAACTAATT
AGGTATTACAGTTTTCTAACGACAGAAATTTGTAATAATTAGGTAACTTGGTTCATATTA
AAATATTTGATACATAGGCCGGGCATGGTGACTCATGCCTGTAATCCCAGCACTTTGAGA
GGC

Sequence 907

GGCAGGTACCACACCCATCTTACCCTCTTCCCTCTAGGTTCTGACATTCAGCTATCTTGG
TGGGAGGCTGGGGAGCACTATTGGGGATGAGGGTAAGGTGGAGTTTTATAAAGCTCTCCA
GGTGACTCAGAGACCACCCTCATTCCACCTGGTCACAAATCCCTGAATGGGAAACAGGTA
CTTTTTTTTTTTTTTTTTTTTTTTTGCAAAGAATTGTAAAATTTATTGTATAAGTATTGCA
GCTTTTCANAATGTCATCATTGCCACTAATGATTACTGATACACAACAAGCAGTTTCTTC
AGGCCTGTGGATTGGCATC

Sequence 908

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GCAATGATCCCAATGACGATGATTGGAAAAAACTTCAATGGCAGCAGTGACAGGATCTGT
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AGCGATCGGAATGAGAAGGGGGCTTCAACAGCAGGCGGATCATTTTCCCCCATGGTGACT
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AAAAATGTAGATGGCACCACGGAAGAGATAGTAGGCCACAGTGTTACTGGCTTCCCATA

Sequence 909

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TCAAGGATATGTTAAACAAACAAACAATTACAAGAAACTCCTGTCAAGTTAAACAGAGAG
AGAGAGAGACAGGGAGAACCACTAACAGGAAAGAGAAAAAGATATACAAGCTATCCCGCA

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GAAATTAAAAAGAGACTAAGAATATTACAAACAACTTTATTTCATTTAGATGAAATGGAC
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CTGTATTTATTAAAGATACTGAATCTATAATTAAAAATATCTTCACACAGAAAATTACAG
TTTCAAATG

Sequence 910
AGGTACGATCTGAAGAAATGAAAGGCATTGAACTTTGGTGGGTAAATTGGGTCTTTTCCA
GCAAAGGTATAAATCCTTAAAAGCCAAGATCATATTGTTTGATTTCTCTGGGCTCTCTGC
TGGATACAGTGCCAAGTCCATAACTGTATACCCCATGGACACTCTATGTTAAATGGAGAT
TAATGTGTAAGAGGTGTTTTTTTTTTTGTTTTGTTTTGTTTTTTAATTTGGAAAAGAAGC
TTAAAGACCACAATGGGTGTGGCATTGGCTCGACCCACAGATCTGCTTAGTCTCAGACAG
GCACTTTGAACCAGTCTTTTAAAATTGCGTCACAACAAC

Sequence 911
AGGTACAGATCACTATGGCTTGTCTTTTCTCCTAACTAATGTAAAATTCCCAATAATTCA
TAACTTGTATGAGGACAACAGTTGTGTGAATCTACCCTGGTCCTTCTGATNATTTTTAAT
TTTTTNATTTTTTTTTTTTTTGGGGACAGAGTCGTGCTGTTATCGCCCGGGCTGGAGTGCA
GTGGCATGATCTCGGCTCACTGCAACCTCCACCTCCCAGGTTCCAGCAACTCTCCTGCCT
CAGCTTCCCGAGTAGCTGGAATTACTGGTGCCCACTACCACACCCGGCTAATTTTTTGTA
TTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGGACTC

Sequence 912
AGGTACAAATTGTCGTTTTTATTCCTCTTATTGGGATATCATTTTAAAAACTTTATTGGG
TTTTTATTGTTGTTGTTTGATCCCTAACCCTACAAAGAGCCTTCCTATTCCCCTCGCTGT
TGGAGCAAACCATTATACCTTACTTCCAGCAAGCAAAGTGCTTTGACTTCTTGCTTCAGT
CATCAGCCAGCAAGAGGGAACAAAACTGTTCTTTTGCATTTTGCCGCTGAGATATGGCAT
TGCACTGCTTATA

Sequence 913
TGGCCAGNTCAAATNACAACCCCCCAACCCCCCCCCCCCCCCCCCACAAACAGACAAGGA
CACAGNTCACCANACAATGGATGTNCAGGNANTNGATATCAGCAGATATNTTAGNCCTNT
AGATAGGCTAATTTNANTNAGCAAAGGAAAGAGGAGGTANCATTAGNCAGATGGGNTATT
NACCTCTGAATTAGATGGCACTTACCCANCTTCTGGNACAGNCCTGCTGGNGGCGTCTAG
ACTAGTGATCCCGGCTGANGATCGATTAACTATCATCCGCGACCTCAGGGGGGGCCGGAC
CCACTTTTGTCCTTA

Sequence 914
CGAGGTACGCGGGACACTGGTGGGGGAGAGTCCGACGCGCCTGGCTAGGAGCGCCGACCG
CAGGGCCTCTACGGACCTTACTAGAAAAATGAAACCTGATGAAACTCCTATGTTTGACCC
AAGTCTACTCAAAGAAGTGGACTGGAGTCAGAATACAGCTACATTTTCTCCAGCCATTTC
CCCAACACATCCTGGAGAAGGCTTGGTTTTGAGGCTTCATGCGAGAAAGGGGAATGGGGA
ATGGCTGCTTAACGGCATGTCTTTTTTTTTTTTGAGACGGAGTCTTGCTCTGT

Sequence 915
CGCCCGGGCAGGTACGCGGGGACTTGACTTAAACTCTGGGGCCCGGGAGGCCGCCGGTTT
TCTCCCCGCTTGCCGGGGTGGTCCTCTTCCCTTTGTCGGACCAAAGAAGTAAACACTGTG
TGGAGAGGGACTGCGTGTTTGGAGGGAAATGGGAATGTACCT

Sequence 916
CCCCGCGTCCGCTCTCTGTCGGGGTCCCCTCCATCTCGCTGCTGCTGAAGGCCGCGAGGG
CGGCGGCGATGGCGGAGGCGGCGCTGTTGCTGCTGCCTGAGGCGGCGGCGGAGCGGGACG
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GGCAGACGGACTCGGTATTGGAGCTGAAGGCGGCGGCAGAGAACTTGCCGGTGCCAGCTG
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CAGTAGTGCCTGAATCTACAGAAGACATTCTCTTGAAGGGCTTCACTTCCTTAGGAATGG
AAGAAGAAAGAATTGAAACCGCACAGCAGTTTTTTCTCATGGTTTGCAAAGCTGCAAACT
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TAAACAGTGCTCTTCAGCATCTGGAGTC

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Sequence 917
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GTAGGGAATTTATAAGTCAGCCATGACAATTATACACCACAGGCATTGTATTATCATTGC
CAATGTCAAGAAAAAGAGCTAAATTTACCAAGCCATGGTTGGNTTTTTACTAAATACCAT
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TGNCAATACTCTAACAGCTTTAGTATTGACTTTAGAATATATCTGATGCCCACAAAAATT
AAATAAAAGGGNTTNGAGGAGGTTTGCCCNAAATAAGTGNGGGGCCCGGAGGGGAA
Sequence 918
AGTCNCCACGCGTCCGCGGACGCGTGGGCGAGTGCCCAGTGACCCTTTACGGGGGTAGCT
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GTGATCCCTTCTTCCATTGTTCTGCCCTCTCAGAAAAGGAAGATAGAGCAGGCTGAACAT
GTCCCAGACAGTAACTTTGGTGTAAATGCTTCCTGTTTTTCTGCCACAAGCCCTTTGGTC
TTACCCACTACCTCAGAGCACACTGCTAAGAAAATGAAAGCCACCAATGAGCCCAGCCTG
ACACATATGGGACTGCTCGACAGGTCCACTGTCCCACGAGCAGAAGCTGGTCACAAAGCT
TGGGAAAT
Sequence 919
GGGAGTCGACCACGCGTCCGCGGACGCGTGGGCGAGTGCCCAGTGACCCTTTCACGGGGG
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TGGCAGTGATCCCTTCTTCCATTGTTCTGCCCTCTCAGAAAAGGAAGATAGAGCAGGCTG
AACATGTCCCAGACAGTAACTTTGGTGTAAATGCTTCCTGTTTTTCTGCCACAAGCCCTT
TGGTCTTACCCACTACCTCAGAGCACACTGCTAAGAAAATGAAAGCCACCAATGAGCCCA
GCCTGACACATATGGACTGCTCGACAGGTNCACTGTCCCACGAGCAGAAGCTTGTCACAA
AGCTTGGAA
Sequence 920
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AGAGTGGAAGAAAAATGTTCCTGTGAGAAGAAACTGTCCAAAGAGTNTGAAGAGAAAAGG
GAACAGGGTGAATTTGANGCCCTACAAGAAAAACAGGAGACCATTCAACAGGAGACGCCC
AGGGAGCAGGTGGCTTTGTGGGCCTGATGTCCAAGAAAGAAGTNCTGGTGGTAAACAGAG
ACTTGTGGATTGCAAGCTACTGTTGTCTTTCTATTGAAA
Sequence 921
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GGCGCGTGGGGCCTTGCCGGAGAACCTGACTCTCCGCAGCAGCAGTGGAAGCCAGAGTGA
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GTTTCTCCAATCAGGTTTCAAAGCCACTTCAACTGCACTGGCCCCTGTGGGTCACTGCTG
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CCTGATCTTGGAGTATTTAAAGAATTCCTATAACTTANAAAAGGTTTCAAGTTTTTTNAA
ATGAGCAAAANGGTTTGGGTAAA
Sequence 922
TCCGCAGGCTGGGGGATCCCAAAGGGTGCGCTCCAGCCCCCAACCCAGGCACTGGGACTC
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GACCGGGAGAGTTATGGCATTTATGAATGAAGAAGAGAAAGAGAATCACTCGGATGGGAA
AAGTTAACTGGATTGTTCCCACCTGCATGGATCACCCGGGTAACTGCAGTGGGACCGAGG
GGGCGAGGCTGCGGGCTGGGGGATGTGCCGGGTTTCCTTGTGTTGCCACGAACCCAGAGA

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GGGAGAGGAAGAAGATGGAAAGAAAAAGGAAAAAGGGAAGGAAAGTAAGAGGGGAGAGAG
GGGGAAAACTTGAGGATGAAAGAAGAGACAGAAGAAAGAAGAAGACCTTGAGAGAGGGGA
GGAGAAAGGAAAGGAAGCNGGAAGGAGGAATTGGAAAGTGAAGGAAAGGGGGGAAACCAG
GCNGAGAAAGAAAAGAGAAAGGGGGAAGGGAAAGAAGAAAGGGGAAAAGNAAGGGGGGGN
GGTTGAAAATCAACNCGAAAAAAAGAGG

Sequence 923

CNCGCGTCCGGCTGTGATGAATGAGGTCTAGGAAATAATTTGCATGTGTCTTGGGGGACA
CAACAGTAACNGAGAGGAAATACATTATTACAGCAACTTGCGACGTACTAATACCTGTCA
GTGTTGGCCCCCGTAAGGTATGTAAGGCACCTGNGANGTGCCCAGTNAGTNCCTTGGTGN
AAGGCCAACATGTACTAGTTATGTAAGTATTGGTGTCTGCTTTAAAAAAGGAGACCCAGA
CTTCACCTGTCCTCTTTAAACATTTGAGAACAGTGTTACTCTGAGCAGTTGGGCCACCTT
CACCTTATCCGACAGCTGACTGTTGGATGTGTCCATTGTCGCCAGTTTGGCTGTTGCCCG
GACAGGACAGGACCTCCATTGGGCGCAGCAGCAGGTGGCAGGGGGTGTGGCTTGAGGGTG
GGTGGCAAGCGT

Sequence 924

CCCCGCGTCCGCACAGATCCTTGAGCTCCGCTGCAGGATAGTACAGTTTTACCGCAGAGG
GAATCTGGAACAGTGGAATCATGTGTCTGCCCTGTGTATTGCAGTTTGTATTGCCACAAG
CTATATTTATACCAGTGTCACCCTTTTCTTGTAGAATATACTAATAAATCTGTGCCAACT
CTACCTTCTCACTTTTACCTCTGACGTCATTCTTTTTTTCTGAAAGAGGTAATAATTCTA
GTTTTGATAGACTCTGAGGATTATGTGAACAGGACATTTTTCATTTGTGAATTTAATGCT
ATACTGTCAAGGTACTTGCTTGTGTCTGAACTCTAGTGCACTTATGATTTTGTAGACCCA
TGTGAAATTTAATAAGATACGTTTTTTTTCCTTTCTTTGGTGTGGTAGTGCAGCAACAGT
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Sequence 925

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CGCCCCCGTCAGCCCCTGGCGGTGGGAGGTGAGAGCGAGTGGTTTAAGTGCCTGATTACC
ACCACCCGCCCCCCCCTTTGTCCAGCTGGGACACGGAATGGCCGCGGGCCTCCTCCCCCT
CCCCTCCAGCCTCTCCACCAGCCCCTCCAGTCAACCCTCATCGCCGTGCCCCCCCAGAGC
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CCTGCCCTGCCGGGGCGCGGGGGTGGGCTCTGGGGAAGCCGGTGCGCCCCCCACGCCTNC
GCTGCCAGTGCCTTACATTCTGGAGCGACCCCCCTCCCTGGTGCCTCCCAGCGAAGGGGG
ACCCGC

Sequence 926

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CTTAGCAGGTAGGTGCCGCAGACCCTGCGGGTTAAGAGGTGGGGTGGGGGGCAGTGCTTG
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CCCAGTCCCCTCTGCTCCGTCAGCCAAGTTCCAAGAAGTTGAGCAGAGACCCTTCTGGGA
GCCTGGCGGGGGTGCAGCGGCCTCCCCTGCGGGGCCTGTCACCCGGCCGGGCGCGTGCAAA
CGCCTCTGGCGCCTNTNTGCGCGGGAGGGGAGATAAGCGTCTGAGCCAGGGAAAGCCGCC
GGGCTAAAACCCGCCTTTTCCGGGGGCCCC

Sequence 927

CGCGTCCGGTCATATACAATGTCATTGTTTGGGACCCGTTTCTAAATACATCTGCTGCCT
ACATTCCTGCTCACACATACGCTTGCAGCTTTGAGGCAGGAGAGGGTAGTTGTGCTTCCC
TAGGAAGAGTGTCTTCCAAAGTGTTCTTCACTCTTTTTGCCCTGCTTGGTTTCTTCATTT
GTTTCTTTGGACACAGATTCTGGAAAACAGAATTATTCTTCATAGGCTTTATCATCATGG
GATTCTTCTTTTATATACTGATTACAAGACTGACACCTATCAAAGTATGATGTGAATCTG
ATTCTGACAGCTGTCACTGGAAGCGTCNGTGGAATGTTCTTGGTAGCTGTGTGGTGGCCG
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GGTCANGTGACTTTCTTTACTCCACTGGGAAACCTAAAGAATTTTTTTCATGATGATTGGG
TGTATTCTGGGTCACTTTCTCTTGCCATAAGCTATNCTCATTCCAGTAGTTT
Sequence 928
CCACGCGTCCGGACGCTGCGTGGAAGCGGCGGAGCCGGAGGGAAGCAAAGGACCGTCTGC
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AGCCCTCTTGCCTGCCCCGGAGCTGTCCCGGGCTAGCCGAGAAGAGAGCGGCCGGCAAGT
TTGGGCGCGCGCAGGCGGCGGGCCGCGGGCACTGGGCGCCTCGCTGGGGCGGGGGGAGGT
GGCTACCGCTCCCGGCTTGGCGTCCCGCGCGCACTTCGGCGATGGCTTTTTCCGCCGCGG
CGACGGCTGCGCCTCGGTCCCCGCGGCCTCCCGCTTCTTCTCTCGGGACTCCTGCTACCT
NTGTGCCGCGCCTTCAACCTAAGACGTGGACAGTCCTGCCCGAGTACTCTGGCCCCGAGG
GGAAGTTA
Sequence 929
CGACGGCCANGGCGCCTCCGAGTTCCCCGCCAGGACTCGGAGGGCCAGGAGGGCGCGACC
TGGGTGGATATTTTTGTTGGACGGCGCAACTCTTGGGGTGGCCCGGGAGCGGCGGAAACC
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GGTGGTGTTGCTTATCTTCTGGAACCCCATGCAGCCAGATCCCAGGCCTAGCGGGGCTGG
GGCCTGCTGCCGATTCCTGCCCCTGCAGTCACAGTGCCCTGAGGGGGCAGGGGACGCGGT
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CTTCAGCTACACCCTGNAGGGATCATACCAAGCAGGCCTTTGG
Sequence 930
CGTCCGCTTTNAGACCGGAAGACATTTAAAAGCCAGTTTACGTACANGAAGCATGGTTTT
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TAACTCTTCTCTTTGTCTTTGCATTTACCTTCCCAGATGTTCCAGCCTATCATTTTACTT
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CTTTTTACACTGGTTTTTGGTAC
Sequence 931
CACGCGTCCGTGGAGTATGTGCCATCTGCCAAAGTGGAGGTGGTGGAGGAGCGCCAGGCC
ATCCCTCTAGACGAGAACGAGGGCATCTATGTGCAGGATGTCAAGACCGGAAAGGTGCGC
GCTGTGATTGGAAGCACCTACATGCTGACCCAGGACGAAGTCCTGTGGGAGAAAGAGCTG
CCTCCCGGGGTGGAGGAGCTGCTGAACAAGGGGCAGGACCCTCTGGCAGACAGGGGTGAG
AAGGACACAGCTAAGAGCCTCCAGCCCTTGGCGCCCCGGAACAAGACCCGTGTGGTCAAG
CTACCCGCGTGCCCCAC
Sequence 932
GGTTCGCCCACGCGTCCGCCCTGCTACCCTGGGAGAAGCCTCAGCTTTCTGGGCAGAGTT
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GGAGGGTTAAAAGGAATAATTTCAACAGGGTGAAGGCCTGGCACGGTGGCTCACAACTGT
AATCCAAGGACTTTGGGAGGCTGAGGTGGGTGGATCACCTGAGGTCAGGAATTTGAGACC
AGCCTGGCCAACTTGGTGAAACCCTGTCTCTACTAAAAACAAAAATTAGCCAGGTGAGGT
GGCACACACCTATAGCCCCAGCTACTGGGGGAGGCTGAGGCAGGAGAATTGCTTGAACCT
GGGAGGCAGAGGTTACAGTGAGCTGAGATGGCACCACTGCACTCCAGCCTAGGTGACAAA
GCAGCAAGACGCATTCTNAAAACAAAACANCAACAACAACAAAAAACGGGAAAACA
Sequence 933
CNCGCGTCCGGTCCACTGTCATCTCCTGGGTTTTCTCTGCTCTTTTATTTGGTGATCCTG
GTTCTTTCGGCCGTTCACGTCATTGTGTGCACCTCAGCTGAAAGTTCGTGCTACTTCTGT
GGCCTCTCGTGGCTGGCGGCAGGTGGGGTGATGGTGCTGGCCTCGGCGCTGCTGTGTGTG
ATTGTGTCTGTTCTGACCAACGTGCTCGTGGGTGGAAACACCCCAAGGAAGAACCCCATG

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CATCCCAGCTCAAGGTGGTCAGAGCTAGACCTTCTTATTCTGTTGGGGACGGCGGGCCAC
GTCTTGAGCCTGGGCGCCAGCAGCTTCGTGGAGGAGGAGCACCAGACCTGGTACTTCCTT
GTGAACACCCTGTGTCTAGCTCTGAGCCAAGAAACCTACAGAAACTACTTT
Sequence 934
TCGCCCCGCGTCCGGTTATTTTACCCAGAAGCCGGATAGAGAAAATATTACAGAGAAAAT
CACATATCACATGGGCTCGAAAGATGTAGAGGTTTTTGACAAATGAAGAACAACCATAAC
AGGTAGAGGGAACACCATGAACCAGGGCATGAAACTGAAAGTGCATAACATATTCTAGAG
AGAGAAGGGTGTGGGCATGAGTTAGGGCTGGAAAAACAGGTTGGAAACAGATAAGTAAGG
GTCTCAAATGCAATGTCAAAGAGCTTGCAGTTTATTTTCCAGGCAATGAGTAGGCAGCCA
AAAAAAAAAAGTAAGGATGTTTTTTTTTTTTTTCCCATGGCATCATATTTAAGAGGATGG
ATTTAAATTGTGTGAGACCAAAGCATAGAGACTAGATAAGAGGGCGATCATTATTTCAAA
AAGAAATAATGAAGATCCAATGAAGGAAGTGGGAAATTAAAATAGGGGAAGAGAGGTA
Sequence 935
CCGTCCGGTTTTTTGTCTCAGAGTTCTTCAGGCTGTACAGGAAATGTGGTGCCGGCATCT
GCTTCTGACGGAGTCTCACTCTGTCGCTCAGGCTGGAGTGCAGTGGCATGATCTCGGCTC
ACTGCAACGTCCGCCTCCTGGGTTCAAGCCATTCTTCTGCCTCAGCCTCCCGAGTAGGTG
GGACTACAGTGGCCATGTGTCTGAGATCTAACCAAGGGAACATGGGTGGAACTGATGTAA
GCCACTTTGACACCACAAAACCTCCCATGGGTTCTCTCTCTTCTTCTCTGGTGTACTTGT
TGGATGGAGAAGATGCTGAGAAATAGTGGGAAGTCCTAGGGGATGGAAGAACCCAGGATT
CTGAATACTCCATTGGACCTTACGTTTTGGAATCAGGNATGATGCTGGCCTTCATAAAAT
GAGTTATGGAGAAAGTCCCTCTTTTTCTGGTGTTTGGAACANGTTTTCAGAAANGAATTT
GNTACCCAGCTTCCNTCTTTTGTACC
Sequence 936
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GGTCGCCAGGCGGTGCGTTCTGCCCGCGCGGGGCTGAGAGTTAGGGGCCGGGGCCGGATC
CGGGGCCGGGGGTCGCGCCGCTAGCCGCCAGCAGCGCAGTCCGGGCCGCCACCCTGCACC
CTCCGCCCTGTTTCTGCACCCGTCTGGGTTCTTGTGCCGCCGCCCGCAAGCCTTCCCGAG
CTCAGGGTGGTGAGCTGCGGAGACCCGTGATAATTCGTTAACTAATTCAACAAACGGGAC
CCTTCTGTGTGCCAGAAACCGCAAGCAGTTGCTAACCCAGTGGGACAANGCGGATTGGAA
GAGCGGGAAGGTCCTGGCCCAGAGCAAGTGTGACACTTCCCTCTTTGACCATGAAACTCT
NGGGTGTCTGCATTGCTGATGGC
Sequence 937
GTCCGCCGGCATGAGCTGTCCATGAAGGATGAGCTGCTTCAGTTCTACACCAGCGCTGCG
GAGGAGAGTGAGCCCGAGTCCGTTTGCTCAACCCCGTTGAAGAGGAATGAGTCGTCCTCC
TCAGTCCAGAATTACTTTCATTTGGATTCTCTTCAAAAGAAGCTGAAAGACCTTGAAGAG
GAGAATGTTGTACTTCGATCCGAGGCCAGCCAGCTGAAGACAGAGACCATCACCTATGAG
GAGAAGGAGCAGCAGCTGGTCAATGACTGCGTGAAGGAGCTGAGGGATGCCAATGTCCAG
ATTGCTAGTATCTCAGAGGAACTGGCCAAGAAGACGGAAGATGCTNTCCGCCAGCAATGA
GGAGATCACACA
Sequence 938
CCCGCGTCCGGAATTCCAGTTGTGGATGAAGGAAATGGTGTTATGACTGCCTCAAGGTTT
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CCAACTCCCGTTCCCTAAACTGTCTCTGAGCCATAGACTAGTAATGGACTCTTCAAGCTC
TACCATTAGGTATCTTTTAAAGAAAGCTGGTTATTACTATTTATTCATTTTTTTCTCTTC
TGTGCAGTGCAAAAGATATGAAACATCGGCTAGGTTTCCTGCTGCAAAAATCTGATTCCT
GTGAACACAATTCTTCCCACAACAAGAAGGACAAAGTGGTTATTTGCCAGAGAGTGAGCC
AAGAGGAAGTCAAGAAATGGGCTGAATCACTGGAAAACCTGATTAGTCATGGAATGTGGG
CTGGCAGCTTTCAAAGCTTTCTTGAAGTCTGAATATAGTGAGGAGGAATATTGACTTCTG
GATCAAGCTGTGNAAGAGTACAAGAAAATC
Sequence 939
CGTCCGGCCGGCGACGGCGGCAGTGGCGGCCCGGCCTGCAGGAGCCCGACGGGGTCTCTG

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CCATGGGGGAGTGACGCGCCTGCACCCGCTGTTCCGCGGCAGCGGCGAGACATGAGGAGA
CCCCGCGACAGGGGCAGCGGCGGCGGCTCGTGAGCCCCGGGATGGAGGAGAAATACGGCG
GGGACGTGCTGGCCGGCCCCGGCGGCGGCGGCGGCCTTGGGCCGGTGGACGTACCCAGCG
CTCGATTAACAAAATATATTGTGTTACTATGTTTCACTAAATTTTTGAAGGCTGTGGGAC
TTTTCGAATCATATGATCTCCTAAAAGCTGTTCACATTGTTCAGTTTCATTTTTATATTA
AAACTTGGGACTGCATTTTTTATGGTTTTGTTTCAAAAGCCATTTTCTTCTGGGAAAACT
ATTACCAAACACCAGATAATTGGATCACTAAAAATTCCTGGTAGAAAAGAATTTAAAGAC
AAA

Sequence 940

TCCGAAAGNGTACTGCCATGANCCGAGATAGGAGACACATAAGAGGACAGCAGAAGCCCT
GGCCCTGGGGAGGCTTCTCGGAAGGCCTGGCTTCACAGGCAGGCCACAGAAGGATATCGC
GGGCACCGTGCACCCAAAGCAAGATAGTGGCTTCCCTTTTATATCCAATCTAATCCTGAT
TGGATGTCCCTGAGGCCCCTGCTGGAAACAGCCATAGGAGAGGGCCCATGGCAGTAGGGG
AAAGAAGGAAGAAATTCCCTGCAACAAAACTTCAGCTAAACTTTGATTTGTGTATTGTTT
ACATAATAATTTTAAAGGGTACATAATGTGTAAAGAGTTTGGATAGAACCTCTCTTCATA
CTATGGTTTTCGTAAAGGATCTGTTGTTGTTACGGATTCATTTTTTCCCTCTATTTTTAT
AAAGAGCAGCAGAGTTGTCTTCTCAAAACGGCTGCCAAGCTCTGCTTCTTGGGAAGAT

Sequence 941

CCCGGTCGTGCGGGTCGGGCGCGGGCGGGCGCGGCGGCAGTGGCGCTNTCAGGTGATTGA
CTGGCCAGCTGCCTGAAGGAGCGCCAGGTCCTCCTTGCTGGCAGGTGGCGAAGCCCATTG
GGGCGGCGGTGCAGACCCGCGGCGGCNGCTGCGGCGGTCTGGCTCGGGAGGCGTTCCTGG
GGCCAAGGCCATGGCCCCGCGGCTGCAGCTGGAGAAGGCGGCCTGGCGCTGGGCGGAGAC
GGTGCGGCCCGAGGAGGTGTCNCAGGAGCACATCGAGACCGCTTACCGCATCTGGCTGGA
GCCCTGCATTCGCGGCGTTGTGCAGACGAAACTGCAAAGGAAATCCGAATTGCTTGGTTG
G

Sequence 942

CACCCACCCCAGATGCCGCCTGGCACCAAGCGCAGCCGCCAGCTGCCGCACTTTCCACTT
GTATTGATCACCTATNANNCCCGCGCANAACGGCTACGNCCGAGCGGACCGCGGCCAGCG
CGCCAGCCCTTGGCACNCCCTNGGAGCAGAAAGGGCTCCGGGAGGAAACTCCTTGGGAGC
GCCCTGTCCGGANTGCCCTTTGCTCTCTGCAGTGTGATTTCTTTCTGTTCTGGGAGGAGG
AGGAGGAGGANGAAGAGGAGGANGAGGNAGAACGANANNCTGCCCTTCCAGAGGTTGGTG
AGGGAGATCGCGCATGGATTTNAAAACCNACCTGAGGTTTCAGAGCGCAGCCATCGGTTG
CNCTGCANGAGGCTAGCGAAGCGTACCTGGTGGNTCTGTTCGAAAGA

Sequence 943

GTCCGGTTTTGAAACAGAAATGTAGGCATTAGACTTCCTGGGCGGCAGACAAACCAAAGA
GCGGAAATTCATGCAGCCTGCAAAGCCATTGAACAAGCAAAGACTCAAAACATCAATAAA
CTGGTTCTGTATACAGACAGTATGTTTACGATAAATGGTAAGCTTTCACATTTGATTTCT
TCTGTTTTTCCAGTAACTGTGAAGGGAAATTGGTAGGAGGTGTTGTAACAGGGCAGGACC
CAAATGGGAACGGGGGGATGACATTGGTTTGTCAGGTACCGAGCAAAGAGTGAGGATTTT
GGAGTCTCCCTTCTGCTGCTCTGATGTTTTCCACATGCTTATTTCTTTGCCAGGCACTGG
AGATGCAGTCAAGAAGTGGGAAGTGGCTCTTACTTCTAGTCTGTGTGTGTATAAGTCACT
TAAGATGGCCGTGTTGACTGCTTCTTTGGGAAATGCCCTGAATAGGAGCATGTAGGGGAT
GCTTACCGAGGCTGGGGAAGG

Sequence 944

GCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGGCCCGACCCCGAGCCCGACC
CCGAGCCCAAGCCCGAGCCGGAGCCCGAGCGAGACCCCGAGCCCGAGCCCGAGCGCGACC
CCCGGTGCGGCGCGGCTACCCCGGCGGAGGCGGNGGGCGCGGGGCGCGCTCTGAGGCCCG
GGGGATGCGCCGCCGCCTCGACCATGGGCGCCGCCGCCTCCAGGAGGAGGGCGCTGAGGA
GCGAGGCCATGTCCTCGGTGGCGGCCAAAGTGCGAGCAGCCCGAGCGTTTGGAGAGNACC
TGTTCCCAGAGTCACCCTGAGAACCGCAACGGCCGCAGATCACCTGCTGGCTGATGCCTA
CTCTGGCCACGACGGGTCCCCCGAGATGCAGCCGGCCCCCCAGAACAAGCGCCGCCTGTC

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CCTCGTTCTCCAACGGCTGCTACGAGGGCAAGCCTTCTCAGAGGAAGCCCAAGCATTAGG
AAGCCCGCAGGC
Sequence 945
CGCGTCCGGCACGGGGGAGTCTGTGGTGGCCNGTTTACCTGGGCATCTGGCTGAGAGGAA
GAAAGGCCAACCTGATCCTGAGGGGACCCAGACATATCCTTTGCACTGTCCCTAGAGGGG
CGATGAGCTTTGCAGCATTAAAAAATGGTGAAGGGGGGAAATATTTTGAACCAAAGACCA
AATGTTAGGCCGCCGTTATATTTGCAGAAGCTTTGAGAACCATGCGTATAGCCTCCTGCA
TTCTCCCCTCTCCTAGGAGCTCTTTTGTCTCTGTCCTTACGAGGCGTCATACAGAGGCAG
TGGGGTGGGCACAGATGAGCAGAGTGGATGGTTCGGTGGGTCCCCACGAGGGCGAGTGGT
GGTCATATGTGATGGCACCGTGTTCACACACCCTCCTGTGTACCCCCCCAGGGTCACCCG
AAGTCCCCACACGCTGGCTCTCCACACCCCTCCTGTTCCAGAAAGCATGTCCCG
Sequence 946
TCGACCNCGCGTCCGGCACTCCCTCTGGCCGGCCCAGGGCGCCTTCAGCCCAACCTCCCC
AGCCCCACGGGCGCCACGGAACCCGCTCGATCTCGCCGCCAACTGGTAGACATGGAGACC
CCTGCCTGGCCCCGGGTCCCGCGCCCCGAGACCGCCGTCGCTCGGACGCTCCTGCTCGGC
TGGGTCTTCGCCCAGGTGGCCGGCGCTTCAGGCACTACAAATACTGTGGCAGCATATAAT
TTAACTTGGAAATCAACTAATTTCAAGACAATTTTGGAGTGGGAACCCAAACCCGTCAAT
CAAGTCTACACTGTTCAAATAAGCACTAAGTCAGGGAGATTGGAAAAGCAAATGCTTTTA
CAC
Sequence 947
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CTTTCACCTCCCACCATGAACCTGAGGCCTCCCGAGTCATGTGGAAATCGCCCCCAGCCA
CCCCACCCCAGAGGGCTACGTCCTGGCAGAGCTGGGTTTGGTTAGTTCTGAGGGCTGAGC
TGGCCCAGCAGCTCCAGACCTCCAGACCTTGCACTCACCTGTGAACTTGACTCTGCAAAC
TCCTCCAAGATGCGCCCACCACACTCCCAGTGAACAACACCTACAGGAGCTTGGAGTTCT
ATTCTCAGATACATCAGCTTCCACATTCCTGTGTGTCCCAGCTGGAGAAGCAAGAAGTCC
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CCATGCTGGATTCATGAAGCTGAGGCCCAGAGGAGGAAGCTTTCTTAATCAACTTCTTAA
CATG
Sequence 948
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GGCAGTTGTTGAGCTTCTCTTGGCTCATGGGGCTGACCCTACTCATCGACTCAAGGATGG
TTCAACAATGCTCATTGAAGCTGCAAAGGGTGGCCATACTAATGTAGTTTCTTATCTGTT
GGATTATCCAAATAATGTTCTGTCAGTTCCCACCACAGATGTGTCTCAGCTCCCTCCACC
TTCTCAAGATCAGTCTCAGGTGCCACGTGTGCCAACGCATACACTTGCCATGGTTGTACC
TNCCCAGGAACCTGACAGAACTTCACAGGAGAACTCTCCTGCCCTTTTAGGAGTGCAAAA
A
Sequence 949
CCACGCGTNCGGTCGGCCTGTGCGGCGCTGCGGCGGAGCGGGCCATGGCAGTGGGGAGGG
GGCGAGTGTAGTGCTGCGCGGGGCAGGCGGGAGGTGATCGAGAGAGGCAGGGATGGGGGC
GCCGGAGTGGAGCGGTTGCGGCGGNCTGGGCTGCTGACTGCGCACTTGGAATAGTAGCAG
GCGGCGGCGGCGGAACGCCAGGCAGTGTATGTTTTAACTGGAAAAAGTCTTCCATGAAAA
CCGTCACTTTTAAAAAAATAAGGTAATGCCCATTCTGTTTTTTCCTAAAAAAGACCTGAA
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AAGTTTTTCATTAAATGCNCTCCTGGCTTATTGGGCAGGACCATTCCCTTTGAACAATCC
TGGGGGCCGGGCTGGGATTTCAACAAGAATTAGGCAATTCTTGGAATGGGCCTTCCAATA
ACCCTGNTGGGGAATTTTTCCCNTTTTNGCCCCCAACCTTGGGGGAATTTNATTATTTNC
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Sequence 950
TTNGGGAGTCGCCACGCGTCCGGCCGGCGACGGCGGCAAGTGGCGGCCCGGCCTGCAGGA

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GCCCGACGGGGTCTCTGCCATGGGGGAGTGACGCGCCTGCACCCGCTGTTCCGCGGCAGC
GGCGAGACATGAGGAGACCCCGCGACAGGGGCAGCGGCGGCGGCTCGTGAGCCCCGGGAT
GGAGGAGAAATACGGCGGGGACGTGCTGGCCGGCCCCGGCGGCGGCGGCGGCCTTGGGCC
GGTGGACGTACCCAGCGCTCGATTAACAAAATATATTGTGTTACTATGTTTCACTAAATT
TTTGAAGGCTGTGGGACTTTTCGAATCATATGATCTCCTAAAAGCTGTTCACATTGTTCA
GTTCATTTTTATATTAAAACTTGGGACTGCATTTTTTATGGTTTTTGTTTCAAAAGCCAT
TTTCTTCTGGGAAAAC

Sequence 951

NNTCCGGAGTCGACCNCGCGTCCGCGGCTGCTGCCTGCTCTGGAGGCAGGCTGGGCGGTG
GCGGCCGAGACTGGCGGGGGTGGACGCCCGGGCCGGGCTGCGCCCGCTTCTTGCAGCTGT
GAATTCCTTTGGACAATTGATGATATTTATCATTGTGCCCAGTTTCTACAAATAAAAGAT
GGGTGGATTATTTTCTCGATGGAGGACAAAACCTTCAACTGTAGAAGTTCTAGAAAGTAT
AGATAAGGAAATTCAAGCATTGGAAGAATTTAGGGAAAAAAATCAGAGATTACAAAAATT
ATGGGTTGGAAGATTAATTCTGTATTCCTCAGTTCTCTATCTGTTTACATGCTTAATTGT
ATATTTGTGGTATCTTCCTGATGAATTTACAGCAAGACTTGCCATGACACTCCCATTTTT
TGCTTTTCCATTGATCATCTGGAGCATAAGAACAGTAATTATTTTCTTCTTTTCCAAGAG
AACAGAAAGAAATAATGAAGCATTGGATGGA

Sequence 952

TCNCCCCGCGCCGGTTTTGATACAGAATGAAAGTGCGTAGTATTTTCATTTTGTTTATTT
TTGCCTTATACATATAGCAAGCCCTCAATAAATAAATATTGAATGAATGAATGAGTGAGT
GAAGAATTTGTTTATAACAGTCTGTCATCTTGATAACACTGGAATGTCTTTGGTTCTTCC
ACTTCATCCTTTATGTTTTAAACTTACACACACCATTCTTACACGTCACTAAAGGAAAAT
ACCAGTATATATTGGCTAAAATTTTTTTTTTTGTTGTTCAAAACTGAAACTCAAATGCCTA
ATTGGGCTAGGGGTCCTCTTAAAGGAGGTTGATGTTTGTCAAATGGGTTATTTTTTAAAA
GCAGTAGATAATTGCTTATTTCAAGGCAAGTAAATGAATTTAGACTAAGCTGTTCATAGG
ATTCATCATTTTTTCCCCTCTCCCAAAGTAATTTGTAAGCCGTAAAC

Sequence 953

TCGCCCCGCGTCCGTGATTTCTCAGTGTTCTCCTTAGATACCAAATACAAAGGACGAGGG
ATCAAGCTCAGCGAAAGTATCAGGCATTTAAGGTATCAGGCAGCAATGCGGGGAAAGGTG
AATTTTCTTCAATCAGCATAGGATGGTTAGGGAAGAGCATTTATCACTTTGGTTCTTATC
CTTCAAGCCAGGGGAAAAGCAACAGTGAGGACATCAGAGACAAAAGCATTTATAGAACTA
ACAAACACAAACGTTTGACAAGTGAGAAAGCTTTATTAAAGCACACATACATGTCAGGGG
GGTGGGAAACAAAAGAGCAAGTTACAGCCCGGGATCCCAAGTTATGCCTTCCATTACAAT
TGCAATCCACACCAAATCAATCTTTGAAAACATTCCTCCATTCGGTTCATACATACAGTA
GAAACCACTGTGGCTGCCCTTAATCCAGTGTGCTTATAGGAAATCAGTTAGCAGCTGACT
CTGTTGAAAG

Sequence 954

CGTCCGGACCCTTATTAAGAATATCCCAGGAAGATGGTGATGAACAGCCTCAGTTTACTT
TTCCACCAGATGAATTCACTAGCAAAAAAATTACAACAAAAATATTACAGCAGATTGAGG
AACCATTGGCACTGGTGTGAACAATTAACCAGCAAATGTCCTTTTCTAATACCATTTGAA
ACTAGACAGCTTTATTTCACATGTACAGCATTTGGCGCCTCAAGAGCAATAGTATGGTTA
CAGAACCGACGTGAAGCCACTGTGGAGCGAACGAGAACCACAAGCAGTGTTAGGCGAGAT
GACCCTGGAGAGTTTCGAGTTGGTCGTCTCAAGCATGAAAGAGTAAAAGTTCCACGTGGC
GAGTCACTGATGGAATGGGCTGAGAATGTCATGCAAATACATGCAGATCGGAAATCAGTT
CTTGAGGTTGAATTTTTAGGAGAAGAAGGAACTGGCTTGGGACCCACATTAGAGTTTTAT
GCTCTGGTG

Sequence 955

ACCACGCGTNCGGGCAGAAATACGGCGGCATGTTCTGCAACGTGGAGGGCGCCTTCGAGA
GCAAGGACGCTGGATTTCGATGCCCTCAGCGTGGGGCAGCGGGGCGCGAAGACTCCTCGG
AGCGGCCAGGGCAGCGACCGAGGATCGGGGAGTCGGCCCGGGATCGAGGGGGACACCCCG
CGCAGGGGCCAAGGCCGGNAAGAGAGCAGGGAGCCCGCGCCCGCCTCCCCCGCCCCCGCC

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GGGGTAGAGATCCGGAGCGCCACCGGCAAAGAGGTGTTGCAGAACCTCGGCCCCAAGGAC
AAGAGTGACCGTCTNCTTATCAAGGGAGGCAGAATCGTCAATGATGATCAGTCCTTTTAT
GCTGATATTTACATGGAAGATGGCTTAATAAAACAAATTGGAGACAATCTGATTGTTCCT
GGAGGAGTGAAGACCATTGAAGCC

Sequence 956

CCCGCGTCCGCTACTGTACTTTGCAGTTTGATGTTTATTAACATTCTTTGGGCACCTAGC
TACAATATAACTCAATTTTCTGTGAAAAACTATTAATCATCCTATTTTTTCCTTGTCTTT
AATATGAGATAAATTTTATACCACTGTTTCTCAAACCATCTGTTGTGAGGGACAGTTTTG
CTTTTTAATTTCCAATTGTCAGAGACCAATACTTTTGTAAAATATAATTAAAAACAAACA
TAAAAATAAACTTATTAGAAAAATGAAATAAAAGAGAAATGAAATAAGAATAATTTTATT
ATTAGATTTAACAGATCAAATATTATTTCAATACTCAGATCAAATGTGCAATAAGACAGG
GTTGCAAAAAATGCACACTTTTTTTTATTAAAATCATTTATATAAGTAATTTATATAAAAA
TAATATTACAGTTGCAACTTTCTGGTGNTTCTCAACTATGACCAAACAGGAGGGTACAAG
TAAAGGAGCAATCCCAA

Sequence 957

GTCGACCACGCGTCCGCAGCAAAAGTGCCTGGCTGAAGGACACTGTTGACCCAAAACTGG
TGACCCTCAACCACCGCATTGCTGCCCTCACAGGCCTTGATGTCCGGCCTCCCTATGCAG
AGTATCTGCAGGTGGTGAACTATGGCATCGGAGGACACTATGAGCCTCACTTTGACCATG
CTACGTCACCAAGCAGCCCCCTCTACAGAATGAAGTCAGGAAACCGAGTTGCAACATTTA
TGATCTATCTGAGCTCGGTGGAAGCTGGAGGAGCCACAGCCTTCATCTATGCCAACCTCA
GCGTGCCTGTGGTTAGGAATGCAGCACTGTTTTGGTGGAACCTGCACAGGAGTGGTGAAG
GGGACAGTGACACACTTCATGCTGGCTGTCCTGTCCTGGTGGGAGATAAGTTGGGTGGCC
AACAAGTGGATACATGAGTATGGACAGGAATTCCGCAGACCCTGCAGCTNCAGC

Sequence 958

GTCGACCACGCGTCCGCGCCAACTCCGGAGGCGCGGTGCTCGGCCCGGGAGCGCGAGCGG
GAGGAGCAGAGACCCGCAGCCGGGAGCCCGAGCGCGGGCGATGCAGGCTCCGCGAGCGGC
ACCTGCGGCTCCTCTAAGCTACGACCGTCGTCTCCGCGGCAGCAGCGCGGGCCCCAGCAG
CCTCGGCAGCCACAGCCGCTGCAGCCGGGGCAGCCTCCGCTGCTGTCGCCTCCTCTGATG
CGCTTGCCCTCTCCCGGCCCCGGGACTCCGGGAGAATGTGGGTCCTAGGCATCGCGGCAA
CTTTTTGCGGATTGTTCTTGCTTCCAGGCTTTGCGCTGCAAATCCAGTGCTACCAGTGTG
AAGAATTCCAGCTGAACAACGACTGCTCCTCCCCCGAGTTCATTGTGAATTGCACGGTGA
ACGTTCAAGAC

Sequence 959

CCACGCGTCCGAGGGTGGGGAAAGGAGGAGAGGAAGAGCACTCCCTTCCCTGGCCCCTCA
TCCAGCCTCCGGTGCTGTAAAACGCAGGCGCTGGGCCGCGGGCGGAGCTGAGGACAGGCC
TTGGCTGGTCCCAGGATGAGCGACGAGTTTGGTTTTAGCTGGGGATTGTGCTGGCATCCT
GCGAAGCTCCTCCCAGCCGGTCTCTCTGTGCTCGGTTGTCTTGGGGTGGGGCCCATCCGC
CGAGGTGGGGACCGATAGGAGAAGCCGGTGGGTTGTACCCTTACACTTGTGGAGTCTCCT
CTTGCCTCTACCTACTCCGCCTTTGTCCTTAAGGTTTTTGCAGGCCAGTGCCAAACACAC
ACTAACTGTCCTGGCCTCTCCGTGACACAAGTCTCTTCCCAGCCTTCCTC

Sequence 960

CCACGCGTCCGCGGACGCGTGGGGCCGGGACAACTGGTCTTATCACGGAGGCTGGGGCCA
NGGCAGCCCTTCGGTTCGGGTGGGCCCATGGACCCCAGTCCAACGCCGAGGGAATAGGAC
CATCCAAAAGCGGAACCTTCGCCTCAGAAAAAGGGTGCGGGACCCCTCCTCACCGTGCGG
TCACGCGTGGACCCTGCCAGCAGCCAGGCCATGGAGCTCTCTGATGTCACCCTCATTGAG
GGTGTGGGTAATGAGGTGATGGTGGTGGCAGGTGTNGGTTGGTNGCTGATTCTAGCCTTG
GTCCTAGCTTGGCTCTCTACCTACTTAGCAGACAGCGGTAGCAACCAGCTCCTGGGCGCT
NTTGTGTCAAGCAGGCGACACATCCGTCCTNCACCTGGGGCATGTGGACCACCTGNTGGG
CAGGCCAAGGCNNCCCCGAAGCCAACTGA

Sequence 961

NCCCCGCGTCCGGGAGGCTCCATGTTGTCCCCTCAGCGAGTGGCAGCAGCTGCCTCAAGA

TABLE 1
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GGAGCAGATGATGCCATGGAGAGCAGCAAGCCTGGTCCAGTGCAGGTTGTTTTGGTTCAG
AAAGATCAACATTCCTTTGAGCTAGATGAGAAAGCCTTGGCCAGCATCCTCTTGCAGGAC
CACATCCGAGATCTTGATGTGGTGGTGGTTTCAGTGGCTGGTGCCTTCCGAAAGGGCAAG
TCCTTCATTCTGGATTTTATGCTACGATACTTATATTCTCAGAAGGAAAGTGGCCATTCA
AATTGGTTGGGTGACCCAGAAGAACCGTTAACAGGATTTTCCTGGAGAGGGGGATCTGAT
CCAGAAACCACTGGGATTCAAATCTGGAGTGAAGTTTTCACTGTGGAGAAGCCAGGTGGG
AAGAAGGTTTGCAGTTGTTTCTGATGGATACCCAGGGGGCAT

Sequence 962

GCCCCGCGTCCGCTTCTCCGAATATAGCAACGTCCAGCAGTGTCCACACTGTGGGAACCT
GGACTACCACTTCGTGAAGCCATTTTCCTCCTTCAAAGTTCTCGAAGCTTATTGATGAAA
GCTTTGCTTTAGTAATAGCTATTTTATTGATATTATTACTTTATTACATATCTTTTATAG
GGAAACATTCTGTGACATTAATTTCCTTTCTAATTTAAAGGAGAGTTACTTTGTTGTATG
TGTGCCACTAAAATAGGGGCTGCCCTTGCCCTGTCTTGATTCCCGAGTGTTAATCTGTGG
TTTTGACCAGAGCCCAGATGGGTAATCCTGTGCATTTGGGTTGGGGGTTCACTCTTACCA
AGAATCTTTGATGCAGCTTTAAGATGGTGGGGAGATGGGGGTTGAATTTAGGGAAAGAAT
NTTTGTGGGTTATAAACTAAGAGCTTGATAGGAGTTGGAAGGAAACTCTTACTAAAATGT
TAACTTTCTAAAAACCTTCTTTTANATCTTNCTTGGGCCTTTGGAAAA

Sequence 963

GTGTTTTGGGGATGCCTTTCCTTACCAGATTCTTCTAAAGCCCAGCTGCACCCACCCTTA
AGTGGGAGATAAGGCTTCTGCCCGCGGGCTCTGCGTTCGTCCACCCGGCCCCACGTTTGC
TGTGGACTAAACAGGAGCCACTGGACTAGAGTACACTTGACTCTCGGCTCTGCGGACCAA
AAATTCCAGGACTAAGGAATAGCAAGGTTAGGCTGAAACAGTCCACACAGGGCTTGCGGT
AAACGTCTTTTCAGGAGCCACTCGCCCAGTGCAGTAAGTCGTGTACTTAGTTGACTCGAG
CGCTCCAGGGAGACGCCCGACCCTACTCTGCGCCGCCCCGGGGCACCAGCTCTGCTTCCT
CCAGGTCCACTGAGGCAGGCACGCCCAGCTCTGGGACAGGTCAGTAAACAAGCCACGAAC
CGCGCCAGGGATCAGAGAACCCANAGTCCCCGCCAGCTGCCGGCACAAGCCAATCGCAGC
GCANCCAGGCGGC

Sequence 964

GTCTAAGGGATCCAGGTCCTGTGTCTCAGGGACCTCTGATGGGATTGAATCCAAGAGGAA
TGCAGGGGCCTCCAGGCCCNCGGGAGAACCAGGGTCCTGCTCCCCAAGGGATGATTATGG
GCCACCCGCCTCAAGAGATGAGAGGACCTCACCCTCCAGGTGGACTACTGGGACACGGCC
CTCAGGAAATGAGAGGTCCTCAGGAGATCCGAGGCATGCAGGGGCCTCCACCCCAAGGAT
CAATGCTGGGACCTCCCCAGGAATTGCGAGGGCCTCCAGGCTCACAAAGTCAGCAGGGGC
CGCCCCAGGGCTCTTTAGGACCTCCACCCCAGGGTGGCATGCAAGGACCCCCCGGACCTC
AGGGACAGCAGAACCCAGCAAGAGGGCCACATCCATCTCAAGGGCCAATACCATTCCAGC
AACAGAAAACGCCTCTGCTAGGTGATGGGCCCCGGGCCCCCTTCAACCAGGAAGGACAGA
GCACAGGCCCCCCACC

Sequence 965

TGCGCATGCGCGGAGCGCGGCGCGCGCGGCGGTTGGGCCGTTGGCTGTTCGGCCCTGGGA
TCCGCCGCCACTCCGCGATCAGACCGCTCTGTGCCGCGAGCCGCCGTGAGCACTCGGATT
CAAGCCGGCGCCAACGAGTCCGGGGGCATCGCCCGCAGCGGCCAAGCTCATGGCCGGCTG
AGCGGGACGCCGCCTNCGCCTCAGCCACCGCCGCCGCCGCCGNCTTCTTCTCCTCAGCCG
GCGGCGGCCCGGGCCCAGCAACCATGGCTGAAGACTACTGGGACGGGCGCCTGCGGCGAA
CAGGAGGAGAAAGGGAGGTCGCGCGGCCTCATTCCGGGCCGCCGCCCCAGGCGCCGCCGC
GCCGGCCCCGCGGCTCTGAGGTTGCTCGCGCGCCCCC

Sequence 966

TGGAAAATNTTTTGGAAAAAATTACCCTTGGGACCTTGNTTTTNAANCCCNAGGTTCCCN
GTTNNGGCAAATAAAANAATGNNNGACCCGGGATTTNGGGNTTNNAAACCGGGGGTTTTT
AATTTCCCCNNNNCNNGGGNCCTTTTTTTTTNCCNCCCCCNCAAGGGGGNTTTGGGAAAN
NAAANCCCCCCCCTTTTTTTTTNGGGGGNGAAANTTCCCCGGGTNNNNGCCNTTTTTTTT
TTTTTAAA

TABLE 1
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Sequence 967
GTCCGCGAGGCTCCGCACCAGCCGCGCTTCTGTCCGCCTGCAGGGCATTCCAGAAAGATG
AGGATATTTGCTGTCTTTATATTCATGACCTACTGGCATTTGCTGAACGCATTTACTGTC
ACGGTTCCCAAGGACCTATATGTGGTAGAGTATGGTAGCAATATGACAATTGAATGCAAA
TTCCCAGTAGAAAAACAATTAGACCTGGCTGCACTAATTGTCTATTGGGAAATGGAGGAT
AAGAACATTATTCAATTTGTGCATGGAGAGGAAGACCTGAAGGTTCAGCATAGTAGCTAC
AGACAGAGGGCCCGGCTGTTGAAGGACCAGCTCTCCCTGGGAAATGCTGCACTTCAGATC
ACAGATGTGAAATTGCAGGATGCAGGGGGTGTACCGCTGCATGATCAGCTATGGGTGGTG
CCGACTACAAGCGAATTACTGTGAAAGTCAATGCCCCATACAACAAAATCAACCAAAGA
Sequence 968
CGTCCGGGAACTCAGCAACGGTTTCTTCATCCAGGACCCGATTGCTCTGGTGGAGAGGGG
GGGCTGCTCCTTCCTCTCCAAGACTCGGGTGGTCCAGGAGCACGGCGGGCGGGCGGTGAT
CATCTCTGACAACGCAGTTGACAATGACAGCTTCTACGTGGAGATGATCCAGGACAGTAC
CCAGCGCACAGCTGACATCCCCGCCCTCTTCCTGCTCGGCCGAGACGGCTACATGATCCG
CCGCTCTCTGGAACAGCATGGGCTGCCATGGGCCATCATTTCCATCCCAGTCAATGTCAC
CAGCATCCCCACCTTTGAGCTGCTGCAACCGCCCTGGACCTTCTGGTAGAAGAGTTTGTC
CCACATTCCAGCCATAAGTGACTCTGAGCTGGGAAGGGGAAACCCAGGAATTTTGCTACT
TGGAATTTGGAGATAGCATCTGGGGACAAGTGGAGCCAGGTAGAGGAAAAGGGTTTGGGG
CCGTTGCTAGGCTGAAAGGGAAGCCACACCACTGGCCTTCCTTCCCCAGGG
Sequence 969
GATTGGAGGAGTCACATCCCCTCTTCAGCCGCAGCACCCCTCCCTCCCATCCTCTAGCTC
TTCCCGCGGTGGTCGCCTCCCTCCGACCCTGCTCTCCCCTCCTGGGCCCCGCGCAAAGCC
CCCTCTGTTCCAGCTCCCGGGCCTCGGCTGCCTCCCCGCCCTCCCATCCCTTCCTCTTCC
CAGGGCCTGGAGCGCTCCCTTACATTCCTGAGATGCCCTTCCTCGGGGCTGTCCCCCTTT
GCCTCCCCAGCATCCCATTTCTAGGCCTTTTTCAAGACCCTTCCAGAGCGGCCCCTTTCC
AGCTCCCTTTCTCGTTTCCATTTCCAACTTTGCCTCTTTTGCCTCTTTGTTCACTTTGCT
TCCAAGCTCCCCTCCCTCTTTCCCTTCGTCTTACCCTGCTTTGATCTACGCAGCCCCAAA
CTCAAGCTCCCCGCTTTCAAGGTGGTGCGAGGTTGTTGGGGGGTGCGGAAGGGCCTGCCA
AGTCCATTTTTCGAGGGG
Sequence 970
GTCCGAGATCGCGAGCCGCCGCCCTTTTTTTTTTTTTTTTATAAGATTATTAGTATAAAAN
GGGGAGACGAGGTTAGGGCCCTGGGAAAGGTGGGAGATCAGCCAGAGACAGGTTTCCCAG
AACAGAATGTCTGGCCTTTGTGGTGAGGAGGGACTGTGGTATGAGCCGCAGAAGCGGGCC
AGGGGTAAACCCTCCTGTGCGTCCTTCCTTCAGCCTGGTCCTGAGGGTGACCCTTTGATC
CTGGGTTCTCCAGGTAGGGCTGTGAGCTGTGAGTTGGATCCTTTTGGTGAAATGGTCTCT
CTCATCTGGCCTGTCACTCAATGTGGAATAGAGTGAGTGAGTTCTATGGGTTCTAAGTCC
TGCTCTGGAACCATAAGTAAGTTATCCTCTCTGGGCTTCAGTTTTTCATGGAAAGTTGCG
TTAAGAATCTAGTTTAAGGCCAGGCATGGTGGCTCACCGCCTTGTAATCCCAGCACTTTG
GGGAGGCCAAGGAAGGTGGATCATGANGTCAGGAGATCGAGACCATCCTNGCTAACATGA
TNAAACCCGTGTCTTTACTTAAAAAATAC
Sequence 971
CCTGCCAGTGGTGAGCACCTTCGGCCTCCAGGTGCCTTTCTTCTTCTTCGCGGCCATNTG
CTTGGTGAGCCTGGTGTTCACAGGCTGCTGTGTGCCCGAAACCAAAGGGACGTCCNTGGA
GCAAATCCGAGTCCTTTTTTCCGCACGGGGAGAAGGTCCTTCTTGCGCTAGGTCAAGGTCC
CCGCCTGGAGGGGGCCAAACCCCCA
Sequence 972
GCGTCCGCGGACGCGTGGGCGGACGCGTGGGTCAGCCTCCACCTGGAAGAGAGCTANGGG
CCGGGCAGGCCGGGCAGCTGCCACCCCGCCCGGCCCGACGCCCCGCATGCCCCGAAGTCC
CTGGCGCCCACCCGGCCGCGGCCCTGCGTGTGACCCGCGGGTCGATACCTGGCAGCCCCA
GTGCTGGGGCGCCGCGGCCCTGCTCGCCCAGGAGGAGAGCGAGGGCCCCACACTGAGTCT
CTTGAAGCCTCACGTTTCCCTGGGGGGGTGCTGCATCGTCGGGTGTCCCTCACCCCACCT

TABLE 1
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GGGGAACCTCTGTCTTCAGGTCACCCCTTTTCAGGGGCCTGG
Sequence 973
CGTCCGGGACCCTGCTCATGGAGAACATCAGCAGCTGGCTGCTCCTTCGCTGACGCCCTG
GGCTACGTGAACCTGCCGCTCACCTTTTTCTGCCGGGCAGAGCTGGATAGTGAGCCCGAG
CGGGTGGCGTCCGTCCTGGAAAAGCTGAAGGAGGACTGNAACAACACTGAGAACAAAGAA
CGGAAGTCCTTNCAGAAGGAGCTTGTGATGGCCCTACTGAAGATGGACTGCCAGGGCCTG
GTGGTCAGACTCATCCAGGACTTTGTGCTCCTGACCACGGCTGTAGAGGTGGCCCAGCGC
TGGCGGGAGCTGGCTGAGAAGCTGGCCAAGGTCTNCAAGCAGCAGATGGACGCCTACNAG
TCTCCCCACCGGTGACAGGAACGGGGTTGTGGACAGCGAGGCCATGTGGAAGCCTGCGTA
TGACTTCTTAC
Sequence 974
TCACCACGCGTCCGCGAAGCGTGCACCGCTGCGCCCCCGCCGGTGAGCGCGGGGAGCGCC
GCAAGCCCAACGCCGGGGGCAGCCCCGCTCCGGTGCGCCGCCGGNCGGAGGCCTCGCCGG
TGCAGAAAAAGGAGAAGAAGGACAAGGAGCCGGGAAAACGAGAAGGAGAAGAGTGCCCTA
GCCCGGGAGCGCAGCCTCAAGAAGCGCCAGTCGCTGCCCGCCTCCCCACGTGCCCGCCTC
TCTGCCAGCACCGCCTCTGAGCTCAGCCCCAAATCCAAGGCCAGGCCATCCTCTCCCTCC
ACATCCTGGCACAGGCCTGCCTCCCCCTGCCCCAGCCCAGGGCCAGGCCACACTCTGTCT
CCAAAGCCACCGTNCCCCCGAGGCACCACTGCATCCCCCAAGGGGCCGGGTTCGGAGGAA
GGAGGAGGCAAAGGAGAGCCCCAGCGCCGCANGGCCCGAGGACAA
Sequence 975
TCCGCAGAAACGGACTTTCTCATCATGCTTTCCTATGGTGGGTATGAGGGGCCAGCTGAT
ACCAACCAACTGGCCTGTATCTATCTATCTGGATTTGACTTGAATTTTTAAAATGTGTAT
CGTTTAAAAAAAAAAATGTTTGCAAATTTTGCACATAGGATCTTGCACTGTTCATTTTCA
GTGGGGTGAGTCTTCACACTAAAAACACAAGCAGAGCTCCTGGGAAAAGAGACTGGAAGT
GGTTCAGGATAAAGAGATCCATGGTGGGCAGGGCTCTTAGGTCACAGAGCTCTAGAAGCA
GCTGGACTTGAACCCACAATGGCTTGTGTAAATTCGTAAATTTCATGGTTTCTAGGAAAA
GCTGCATTG
Sequence 976
GCGTCCGGAAGAACTGTGGAACTGCGGTTGGCAGACAATTTTGTTACAAATATTAAAAGG
AAAGATTTTGCCAATATGACCAGCTTGGTGGACCTGACTCTATCCAGGAATACAATAAGT
TTTATTACACCTCATGCTTTCGCTGACCTACGAAATTTGAGGGCTTTGCATTTGAATAGC
AACAGATTGACTAAAATTACAAATGATATGTTCAGTGGTCTTTCCAATCTTCATCATTTG
ATACTGAACAACAATCAGCTGACTTTAATTTCCTCTACAGCGTTTGATGATGTCTTTGCC
CTTGAGGAGCTGGATCTGTCCTATAATAATCTAGAAACCATTCCTTGGGATGCTGTTGAG
AAGATGGTTAGCTTGCATACCCTTAGTTTGGATCACAATATGATTGATAACATTCCTAAG
GGGACCTTCTCCCATTTGCACAAGATGACTCGGTTAGATGTGACATCAAATAAATTGCAG
AAGCTACCACCTGACCCTCTCTTTCAGCGAGCTCAGGTACTAGCAACCTCAGGAATCATA
AGCCCATCTACTTTTGCATTAAGTTTT
Sequence 977
NCTCCAACAATTATGGCTCATCCTTCCTTTTACTCTGTCTCACCTCCTTTAGGTGAGTAC
TTCCTTAAATAAGTGCTAAACATACATANACGGAACTNGAAAGCTTTGGTTAGCCTTGCC
TTAGGTAATCAGCCTAGTTTACACTGTTTCCAGGGAGTAGTTGAATTACTATAAACCATT
AGCCACTTGTCTCTGCACCATTTATCACACCAGGACAGGGTCTCTCAACCTGGGCGCTAC
TGTCATTTGGGGCCAGGTGATTCTTCCTTGCAGGGGCTGTCCTGTACCTTGTAGGACAGC
AGCCCTGTCCTAGAAGGTATGTTTAGCAGCATTCCTGGCCTCTAGCTACCCGATGCCAGA
GCATGCTCCCCCCGCAGTCATGACAATCAAAAAATGTCTCCAGACATTGTCAAATGCCTC
CTGGGGGGCAGTATTTCTCAAGCACTTTTAAGCAAAGGTAAGTATTCATACAAGAAATTT
AGGGGGAAAAAACATTGGTTAAATAAAAGCTATGTGTTCCTATTCAACAATATTTTT
Sequence 978
CCCCGCGTCCGGGTCCCCGCGACTCCCGGACTGGAGAAAACGGCTCTTGCGATGGGGCGA
AGTCCGAGCTGCGGCGGGCGTTGGTCCGTGCAGGGAAGTGGGAATCGTTAGGTTCGTTCT

TABLE 1

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GGACCCGCCGCCCCATGGCCCAGGCGTCTCGCTCAGGTAGCCTGCCTCCACTCGTTATCG
TGCCCCCGCTGAGGGCGCAACCCGGGGGCACTGGGGAGGAGCAGTGGGAGAGAAGTCGAA
CGGNCGGNCTTCCGCTGGGCAGAGCTCAGCAGTACTTGGCAGCATGGGACCCAGCTTCCT
TCCTGCTCCTGATCCAAAAGGACTTACCTNCTCTGTTGCATGAGGCAGAAGCTTTGTATA
GCCTGGCCTCAGAGGAAAGCTTAGCTCTGGAAGTGGAGCAGCAGCTGGGCCTGGAGATCC
AGAANCTGACTGCACAGATCCAGC

Sequence 979

AGGCTGNTACGAAGCGAGCTTGGGAGGAGCAGCTGGCCTGCGGGGCAGAGGAGCATCCCG
TCTACCANGTCCCAAGCGGTGTGGCCCGCGGGTCATGGNCAAAGGAGAAGGCNCCGANAG
CGGCTCCNCGGCGGGGCTGNTACCCACCAGCATCCTCCAAAGCACTGAACGCCCGGCCCA
GGTGAAGAAAGAACCGAAAAAGAAGAAACAACAGTTGTCTGTTTGCAACAAGCTTTGCTA
TGCACTTGGGGGAGCCCCCTACCAGGTGACGGGCTGTGCCCTGGGTTTCTTCCTTCANAT
CTACCTATTGGATGTGGCTCAGGTGGGCCCTTTCTCTGCCTTCATCATCCTGNTTGTGGG
CCGANCCTGGGATGCCATCACAGACCCCCTGGTGGGCCTCTGCATCAGCAAATNCCC

Sequence 980

ACCCCGCGTCCGGAAAAGAAGAGTGGCCNGTTCCAGGGGTAGCTCCAAAAGAGACTGCAG
AGCTGTCCGAGACCCTGACAAGGGAGGCCCAAGGCAACAGTTCCGCAGGAGTGGAGGCAG
CAGAGCAGAGGCCTGTGGAAGATGGCGAGAGGGGCATGAAGCCAACAGAAGGGTGGAAAT
GGACCCTGAACTCCGGGAAGGCTCGAGAATGGACACCCAGGGACATAGAGGCTCAAACTC
AGAAACCAGAACCTCCAGAGTCAGCAGAGAAGCTTCTGGAATCTCCCGGTGTGGAGGCTG
GAGAAGGGGAGGCTGAGAAGGAGGAGGCGGGGGCTCAGGGCAGGCCTCTGAGAGCCCTGC
AGAACTGCTGCTCTGTGCCCTCCCCCCTCCCACCAGAGGACGCTGGGACTGGAGGCCTGA
GACAGCAGGAAGAGGAAGCAGTGGAGCTTTCAAGCCCCCACCACCAGCCCCTCTGTCTCC
CCCACCCCCAGCCCCAACTGCCCCCCAACCTTCTGG

Sequence 981

GCCCCGCGTCCGAAAAGAATGGGTGAACCAATCGGCCTTTGTGAATTTATTCAGTGCCTT
CTCTGTACCAAGCACTGGGTAAGGCACTTTTGTGGAGCATTAGACAGTAACCCTCAAGGA
GCTAGAGAACCGGATGGGAGACATGAGCGGTAATTAACTCACTTGTTCCCCAGAGTTTCT
ATTTGTTTTGATTTTCTTTTTCTGTGACTTATTTTCCTATTTTCTTTCCTCCATGTAATT
TTCACTATGGCCCAACTAATATAAACACCTGGAAATTACAAGGAAAAAAAATTCTTCCTC
TAATAACTTTCCAAATTTGTGGAATATTTATTTGTAATAGCAGTTATCAGTTATGCTTAT
ATAGCATTAAAAATTCTCCTCCTTTGACTACACACACAACCACAGTGTGGTTCTAATCAT
GGAGATATCAGTAATTTTTAGTAACTGAATTTTGAGGACATTTCTNTGTTTAGCATGTAT
GCAAACTGATATGTAATCTGAGGTTCCAAAGTCAATTTTTTTCTTTTTT

Sequence 982

TNGGGAGTCGACCCCGCGTCCGGTTTTTGTGAGGCAGTGAGACCTAAGGTAACCTTTATC
AAAAGGATGGAGTTGGGAAAAGGAAAACTACTCAGGACTGGACTGAATGCGTTGCATCAA
GCAGTGCATCCGATCCATGGCCTTGCCTGGACCGATGGGAATCAAGTTGTCCTAACTGAT
TTGCGGCTTCACAGTGGAGAGGTCAAGTTTGGGGACTCCAAAGTCATTGGACAGTTTGAA
TGTGTCTGTGGGTTGTCCTGGGCCCCACCTGTTGCAGATGATACACCTGTTCTACTCGCT
GTCCAGCATGAGAAGCATGTCACTGTGTGGCAGCTGTGTCCCAGCCCTATGGAGTCAAGC
AAATGGCTTGACGTCTCAGACTTGTGAGATTAGGAGGGATCACTACCTATCCTTCCCCAG
GGCTGTGTGTGGCACCCAAA

Sequence 983

GTGTCGACCCCGCGTCCGCGCCCTGCCTGCAGTTGAGATTCAGATGCCTTCTGACAGAGT
TCAGCCTCTTGGAGAGTCTTGGGGATTGTTGGCACCTAAACAGAATCAGNGACCCGGGTG
CTTTGTGGCCAGCAGCACAGAATCAAACCCGCATCCCAGCATTGGGCCACCCATCTGAGG
GAGGCCAAAATCATCACAGATGCTGCTGTGCTGCAGACAGATACATGCTAGTCCAGAGAG
CCGCCCCTGAGATGGCTGTGAGAACCATGTGTCTAAGGCGTAAGATAAGGATGGAAGGCT
GTCCAAGTTATTTGGAAGGCCTCGGCAGCTTGGGATTAGCTTGGGAGCGCAGCGCTGCAA
AGTGGAAAATATGAAAAGACCACACAGGCCCAAGCAGTCCAGAAACTGGGCAAAAATATT

TABLE 1
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CTGCAGTGGGGATTTATTTTTT
Sequence 984
CACGCGTCCGGAGTACGGAGTTGTTCCTTTACTGGCTGAAAGATATATTCGAATTGTAAA
GATGCTTTTTCTCATGCATTGAAATTATACATTATTTGTAGGGAATTGCATGCTTTTTTT
TTTTTTTCTCCCGAGACAGGGTCTTGCTCTGGCGCCCAGGCTGGAGTACAGNGGCATGAT
CTTGGCTCACTTCAGCCTTGACTTGGGCTCAAGTGATCCTCCTACCTGAGCCTTCTGAGT
AACTGGGACTACAGGTGTGCACTCCTCGCCTGGCTAATTTTTTTATTTTTTGTACAGGCAG
GATCTTGCCACCTTGCCCAGGCTGGTCTTGAACTCCTGAGCTCATGCCATCTGCCTGCCT
TAGTCTCCCAAAATGCTGGGATTACAGGAGTGAGCCACCATGCCCGGCTGGCAGTTGCAT
GGAAGAGAACACCTNTTTATGGCTTACCCTCTAGAATTTCTAATTTATGNGNNCTGTTGA
AATTTTTGGTTTTTTTACCT
Sequence 985
GTCGACCACGCGTCCGCTCGGCTTCCTGCTGATGGTCAGGGTTTTGGCAACTCCCCGGTG
TGAGAGGGGTAGGGAGTGCTCCCGGCGGCGACGGGGCCGAGTTCACCAGCCGCCGGGGCA
GTAGTCGAAGGCCCGGCGCGGCATGTCCTGGGTGCCGCGGTGCGGGCAGTGAACGCGCGC
CGGGCGGGATGGGCCGGCGCCGGGCGCCAGAGCTGTACCGGGCTCCGTTCCCGTTGTACG
CGCTTCAGGTCGACCCCAGCACTGGGCTGCTCATCGCTGCGGGCGGAGGAGGCGCCGCCA
AGACAGGCATAAAGAATGGCGTGCACTTTCTGCAGCTAGAGCTGATTAATGGGCGCTTGA
GTGCCTCCTTGCTGCACTCCCATGACACAGAGACACGGGCCACCATGAACTTGGCACTGG
CTGGTGACATCCTTGCTGCAGGGGCAGGATGCCCACTGTCAGCTTTCTGCGCTTTCAGGC
ACATTAACAGCA
Sequence 986
CGCCACGCGTCCGCGTACGCGTGGGCGCGACCGAGCGTGCGGACTGGCCTCCCAAGCGTG
GGGCGACAAGCTGCCGGAGCTGCAATGGGCCGCGGCTGGGGATTCTTGTTTGGCCTCCTG
GGCGCCGTGTGGCTGCTCAGCTCGGGCCACGGAGAGGAGCAGCCCCCGGAGACAGCGGCA
CAGAGGTGCTTCTGCCAGGTTAGTGGTTACTTGGATGATTGTACCTGTGATGTTGAAACC
ATTGATAGATTTAATAACTACAGGCTTTTCCCAAGACTACAAAAACTTCTTGAAAGTGAC
TACTTTAGGTATTACAAGGTAAACCTGAAGAGGCCCGTGTCCTTTCTGGAATGACATCAG
CCAGTGTGGAAGAAGGGACT
Sequence 987
GGTCGCCCCGCGTCCGTAGCAGTTACATCTACGAGGCTATTATGGATTGGAGGATGAGAA
GGGAACTGCATGTACCTCAACAAGGCGTCGGTCAACACCGCGAAGTTTGGCAGGCTTGAC
AAGTGGAGTTTTTGAATCTATAATGGTTCAAGTTTTGAGACAGGAAGAACAGCTGAGAGC
AAAAGAAGAAAAAAGGCTTCGGGAGCAGGAAAGAAAAGAAGCAGAAGAAGCTAGTCAAAA
GGAAATAGAAGAATGGGAAAGAAAACTTCTAGCTCAAGCAGCTCCAACTTGTATGGAGAC
CATGTGGGAAATTCCAGCTATTGGGCATTTCCTTTGTTTAGCTCAGCAAATTCTAAATTT
GCCAGAAATAGTCTTTTACCGAACTGGAACCGTTGTCTTCTGATGCCTCAGTGTAATGCT
TTTCTATCGAAAATAATGACTTCTTATTTAAGTCCTCCCCATCGCAGA
Sequence 988
NCCCCGCGTCCGAGTCCCCTGTCTGTGGCACCAGACACTCCCGACTGTGCGCTGACTCTC
CCCGCCCAGCCAGCAGCCTTTTCCAGAGAGGCTGTGGTCCATAGCCTCTGTTCGTTTTCA
CTGCAGGACCAGGCACGAAAGTTAAAACAAAATGAAGATTTTTTCTGAATCTCATAAAAC
AGTGTTTGTTGTGGATCACTGCCCTTATATGGCAGAATCTTGCAGGCAGCATGTCGAGTT
TGATATGCTGGTGAAGAATAGAACCCAAGGAATCATTCCTTTGGCCCCCATATCTAAATC
ATTGTGGACTTGCTCAGTAGAATCTTCCATGGAATATTGTAGAATAATGTATGATATATT
TCCTTTCAAAAAGCTGGTGAATTTTATTGTGAGTGACTCTGGAGCACATGTTTTAAATTC
TTGGACTCAAGAAGACCAAAATTTACAGGAGCTAATGGCAGCATTAGCCCGCTGTTGGGC
CTCCTAATCCTCGGGC
Sequence 989
GTCGCCCACGCGTCCGTTCGTTGTCTGATGGACCTGCTTGCAAAAGGCCAGCTCTGTTGC
ATTCCCAATTTTTGACACCACCTCAAACACCAACGCCCGGGGAGAGCATGGAAGATGTTC

TABLE 1

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ATCTCAATGAACCCAAACAGGAGAGCAGTGCTGATCTGCTTCAGAACATTATCAACATTA
AGAATGAATGCAGCCCCGTTTCCCTGAACACAGTTCAAGTTAGCTGGCTGAACCCCGTGG
TGGTCCCTCAGAGCTCCCCCGCAGAGCAGTGTCAGGACTTCCATGGAGGGCAGGTCTTTT
CTCCACCTCAGAAATGCCAACCATTCCAAGTCAGGGGCTCCCAACAAATGATAGACCAGG
CTTCCCTGTACCAGTATTCTCCACAGAACCAGCATGTANAGCAGCAGCCACACTACACCC
ACAAACCAACTCTGGAATACAGTCCTTTTCCCATACCTCCCCAGTCCCCCGCTT

Sequence 990

GTCCGGCTGGGACCTCCTCCTGTTGGGGTCCCCATGAACCCTTCCCAGTTCAACCTTTCA
GGACGGAACCCCCAGAAACAGGCCCGGACCTCCTNCTCTACCACCCCCAATCGAAAGACA
ATGCCTGTGGAAGACAAGTCAGACCCCCCAGAGGGGTCTGAGGAAGCCGCAGAGCCCCGG
ATGGACACACCAGAAGACCAAGATTTACCGCCCTGCCCAGAGGACATCGCCAAGGAAAAA
CGCACTCCAGCACCTGAGCCTGAGCCTTGTGAGGCGTCCGAGCTGCCAGCAAAGAGATTG
AGGAGCTCAGAAGAGCCCACAGAGAAGGAACCTCCAGGGCAGTTACAGGTGAAGGCCCAG
CCGCAGGCC

Sequence 991

NCGCGTCCGCTTAAATGACTCGTTATCATTTTGCAATGAATGGAAAATCATTCTCAGTGA
TACTGGAGCATTTTCAAGACCTTGTTCCTAAGTTGATGTTGCATGGCACCGTGTTTGCCC
GTATGGCACCTGATCAGAAGACACAGTTGATAGAAGCATTGCAAAATGTTGATTATTTTG
TTGGGATGTGTGGTGATGGCGCAAATGATTGTGGTGCTTTGAAGAGGGCACACGGAGGCA
TTTCCTTATCGGAGCTCGAAGCTTCAGTGGCATCTCCCTTTACCTCTAAGACTCCTAGTA
TTTCCTGTGTGCCAAACCTTATCAGGGAAGGCCGTGCTGCTTTAATAACTTCCTTCTGGT
GTGTTTAAATTCATGGCATTGTACAAGCATTATCCAGTCTTCCAAGTGTTACTCTGCTGT
ATTCTATCTTTAAGTAACCTAGGAGACTTTCCAGTTTCTCTTAATTTGATCTGGCAATCT
TTTGGGTAAGTGGGTATTTANAAT

Sequence 992

TTTTCACTGCAGGACCAGGCACGAAAGTTAAAACAAAATTGAAGATTTTTTCTGAATCTC
ATAAAACAGTGTTTGTTGTGGATCACTGCCCTTATATGGCAGAATCTTGCAGGCAGCATG
TCGAGTTTGATATGCTGGTGAAGAATAGAACCCAAGGAATCATTCCTTTGGCCCCCATAT
CTAAATCATTGTGGACTTGCTCAGTAGAATCTTCCATGGAATATTGTAGAATAATGTATG
ATATATTTCCTTTCAAAAAGCTGGTGAATTTTATTGTGAGTGACTCTGGAGCACATGTTT
TAAATTCTTGGACTCAAGAAGACCAAAATTTACAGGGAGCTAATGGCAGCATTAGCCGCT
GTTGGGCCTCCTAATCC

Sequence 993

CGCGTCCGGGCAGGAGCACCACTCAAGGAGCTACACCCCTTGCATCGGCTTGACCGCCTT
ACCTCAGGGGTGCTTATGTTTGCCAAGACAGCTGCAGTCTNTGAGAGAATTCACGAGCAG
GTTCGGGACCGGCAGCTGGAGAAGGAGTACGTGTGCCGGGTGGAAGGGGAGTTCCCCACT
GAGGAAGTGACCTGTAAAGAACCCATCTTAGTGGTGTCTTACAAAGTAGGGGTGTGCCGT
GTAGATCCCCGGGGCAAGCCCTGTGAGACAGTGTTCCAGAGGCTAAGCTACAATGGCCAG
TCCAGTGTGGTACGGTGCCGGCCACTCACAGGCCGCACACACCAGATTCGAGTCCACCTT
CAGTTCTTGGGCCATCCCATTCTCAACGACCCCATCTACAACTCAGTTGCCTTGGGGTCC
TTCTCGAGGCCGGGGCGGCTACATTCCCAAGACAAACGAGGAGTTGCTACGGGACCTGG

Sequence 994

ACGCGTCCGCGACCGCTGGGCATGCGGGTGTTGGCGCGGTATCCCCGCCCTGCCCAGCAT
CTGCCCCACGTTTCTTCAGGCTAAACTACCGGGATCCCGGGCTTCTTCCTAAAGTAAAAC
TCGCTCCGGAAAGGCCAACAGTCCAGCGGCCAGACGGGCACCTGGGAACGCGGGCCTAAC
GCGTACTGGAGACGGAGTGGCGCCCGGCACTGCGCGCCTCCTCCCCGCCGGGAGACTGCG
TGCTAAGCTCAGCAAAGCCCCGCTGTGGAGACGGAGCCATGTCGCCCATTACCTAATGAA
ACTGAGAAGGGAGACTCAGTCTCTCTTCTAGCCCCGAGCGCAAGCTCTGCTGGACTTGGC
ATCGTCCGCCCTCCACGATCCCACACTCCGGGTTTTCCCCATTCCCAGCTCGGCTGCAAC
CGAGAGACAGACGGAAGAAAC

Sequence 995

TABLE 1
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TCCTCCTGGCCCTGTTAATGTCGGGGCCNGGCCGGGGGAGGATGGCGCCCTAGAACCCGG
CCTTGCTGGGGTAGGGGCGGGAGGGGACGGGGTGGGGACCGGCCATGTCGGAGGTGACCC
GGAGTCTGCTGCAGCGCTGGGGCGCCAGTTNTAGGAGAGGCGCCNNACTTCGACTCTTGG
GGCCAGCTGGTGGAGGCGATAGACGAGTATCAGATATTAGCAAGACATCTACAAAAGGAG
GCCCAAGCTCAACACAATAATTCTGAATTCACAGAAGAACAAAAGAAAACCATAGGCAAA
ATTGCAACATGCTTGGAAT

Sequence 996

CGCGTCCGGCCTGAGCCGGCGGGTCCCCTGTGTCCGCCGCGGCTGTCGTCCCCCGCTCCC
GCCACTTCCGGGGTCGCAGTCCCGGGCATGGAGCCGCGACCGTGAGGCGCCGCTGGACCC
GGGACGACCTGCCCAGTCCGGCCGCCGCCCCACGTCCCGGTCTGTGTCCCACGCCTGCAG
CTGGAATGGAGGCTCTCTGGACCCTTTAGAAGGCACCCCTGCCCTCCTGAGGTCAGCTGA
GCGGTTAATGCGGAAGGTTAAGAAACTGCGCCTGGACAAGGAGAACACCGGAAGTTGGAG
AAGCTTCTCGCTGAATTCCGAGGGGGCTGAGAGGATGGCCACCACCGGGACCCCAACGGC
CGACCGAGGCGACGCAGCCGCCACAGATGACCCGGCCGCCCGCTTTCAGGTGCAGAAGCA
CTCGTGGGACGGGCTCCGGAGCATCATCCACGGCAGCCGCAAGTACTCGGGCCTTATTGT
CAACAAGGCGCCCCACGACTTTCAAG

Sequence 997

GTCCGGCCAGGAGCCAGGCCGAGCGGGAGCTGACCANGGCTTGACTCGGGTACAGAACGA
GGCACCAGTCCCCTTGCGAACCGAAGGGCCTCGCAGTGGATGGAGGAGGCCCAGCCCTGA
GGTCAACGCCAACCAGGCTAGCCTGGCACGGGGCCTACAGGGTGGGTAGGCGGGCGTGCC
GCAGCCGTCCAGGGCCTTCCCTCAGGTCCCGGGCCGAGGGGCCTACGCTGCGGCCCGGCA
ACAAGGCCCGACTCGGCCCCTCGGGACCAGAGCCCCACCCGATCGGAAGGCGGATCCTTT
ACCAGGGCCATAGGCCAGTGACTGGGCGGGCCCCTTNGGGCCTCCCATTCGGGGCCCGGA
CTANGGAACNAGGCCCGGNNGAGGCCCCTTGGCCTACCAGACCCTTTTTNTNANGCCGACA
GCCGNCANGGAAAGAT

Sequence 998

CGTCCGGCCCAGAGCCCGCAGCACGCCGCCGCCGCAGCCTAGGTCACCTCCAGCATCTAG
CACAACGTCTGCAATGGAACAGGCGAGCTGTGAATATTTGTGGAATGCATGGGTGGACTA
AAGACCTATCACCTCACTCTAGAATGCCCAGCATGTTGGAGCATGAGGACCAAGAACCAT
GGTGTTCCTCCACTCATCAGAGCCGTATCATTTTGATGCATGCGCCAAGAAAGAAAATTC
AATCATCAGACTGAAGCAATCAAACTCCAAATGGTGCTGTAAACTGAACCACACATAGAC
ATGCCATTCTTCTAAGGACCCTTAAGATCCACCCCAGGAGGAGCGCTAGCTGCTGTTCCC
CATTCGATGCCCCTTTTCGGCCCGGAAGTAGCCGGAAAGATTCGCCCGCCAAAATTCCCC
TAACCAGCAAGTTAGGTGTGGCATCTTCCACAAGCANGGAGCCGTTGTAGGAAAAAGGNG
GTCTTGGGGAAGGTTTTTCG

Sequence 999

CCCGCGCCGGCAGTTTCNATGGTGTGTACTAATTTGAGAAAATGAATGTGTATACATACA
AGAGTAAGTCAGATTGTTAGACTCATCCCTCAGTATTCCATATGTTTTGTGACTGATTTT
ACAGTTCTCTCTACCTTTCTCATTTACAAAAAAAAAAAAAGAAAAGAAAATTTGATTCAGC
AATTCCTAAAAGTATTGTATTCAGTGACATCTTTGGAAACACCAGTTTCTGTTATCAACT
TCAAATAATAGTCAAGTTTTATGTATGATCTAAAGGGAAAACAAGTTTGTTTTTCAATCC
TGTGATAATTTTTCTTTTAGAATGAGGTGTTGCAAGAAATGGAAAATTAAAAAAACCACT
CTGTAACAATTTTGCTGTGCTTCTTTGATTTTTCTCTGTTTTTGTTTAATGGGTACCTTA
TATTTGTACCTTTACATATTGAATTCATGAGGAGAGGTTATGCACAGCCTAGTTATTTGA
CATTCCAGGGGGTTTAAAAAAAA

Sequence 1000

CCCGCGTCCGGCGGTGGCGGTGGTGGCGGTGGCGGCGGTGGCGGCGGCGGCGAAGGGGGC
GGAGAGGAAGGAGCGCGGCGGGACCGGGCCGGGACAGCGCGTACTTTGGGCTCCGGGAGT
CGCTCCGCGCCCGCGGTTGTAGCAGCTGCCGCTGCAGCCATAGCAGCAGGTCAGTCATTG
GCACCATGAACTGGAATAAAGGTGGTCCTGGCACTAAGCGAGGATTTGGCTTTGGAGGTT
TTGCCATCAGTGCTGGGAAAAAGGAGGAACCCAAACTCCCACAGCAGTCCCACAGTGCCT

TABLE 1
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TTGGGGCAACCAGCTCTTCTTCTGGATTTGGAAAGTCAGCTCCACCACAGCTTCCTTCTT
TCTACAAAATTGGATCTAAGCGGGCCAACTTTGATGAAGAAAATGCCTATTTTGAAGATG
AGGAAGAAGATTCTAGCAACGTTTGATTTACCTTACATTCCTGCT
Sequence 1001
CCGGCCGCCGCCGCCGCCCCGCCGCCACCGCCTGGGGGTTGGTTGAGGCGGACGGCGGGG
TCCGGGCCGGAGTACGTCGTTCCCGCTGCGCTAGGGGAAGCGGGCAGTCAGAAAAATGGG
TAAGAAGAGTCGAGTAAAAACTCAGAAATCTGGCACTGGTGCTACAGCAACTGTGTCACC
AAAGGAAATCTTGAACCTGACCAGTGAGCTGCTGCAGAAATGCAGCAGTCCGGCGCCTGG
CCAGGAAGAGTGGGAAGAGTATGTGCAGATCCGGACTCTGGTTGAGAAAATACGAAAAAG
CAAAAAGGTCTTGTCCGTTACTTTTGATGGAAAAAGAGAAGATTACTTTCCTGATCTAAT
GAAATGGGCCTCTGAAAATGGGGCTTCTGTCGAGGGTTTTTGAAATGGGTTAACTTCAAA
GAAGAGGGGCTTTTG
Sequence 1002
GTCGACCACGCGTCCGACGCACCAAAGGGCAAATACTCGGTAGCGACTCAGAGGGAAAGT
GGGGTCTCTCCTGGGAGAGCAGGAGGCTGCCAGAAAAGAACTCAGGTCAGGGGTGCATAG
GCGGCTGAGGAGTGCGGGACGGGCTGAGAGTTGGGGTGCCTCCCCGCCCGCAGGTGGGTC
CGCAGATCCCGCGGGCCGCATTGGCCCGGCTGCTGCGGGATGCCGAGGGGCTGCAGGAGC
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Sequence 1003
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Sequence 1005
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CACCAGTGG
Sequence 1006
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CCCCGGGACCCCCTTCCG
Sequence 1007
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Sequence 1008
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Sequence 1012
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AGG
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Sequence 1017
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GCTACTGCATCCGCT
Sequence 1018
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Sequence 1020
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Sequence 1025

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Sequence 1026

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Sequence 1027

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Sequence 1028

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Sequence 1029

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Sequence 1031
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Sequence 1033
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Sequence 1034
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Sequence 1035

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Sequence 1036

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Sequence 1037

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ATGACAAAATATCGCCCTTTGGAAAACCTGACTCTTTGCACCGTTGTAAATTCCCAGAGT
CTACCTCAGTTAACCAGGCCTTAGTTTTAGGCAAGGAATGAATTGAATTAAAATTTCAGT
TCAATCATTTTATGCCAGAATTTTGTTTTTCTTTTTAAGGCACCATCCTTCCCTCCTTGG
CTGGNTGGCCCTTCCCTCCCCATTTAACTTTTCTTTTTTTAATNCTTTGAAAAATTGGGT
TTAAAAATATTTCCAATCCTTTTCCTTTTCCTCTAGCCAAAGTNGGTTTTGTNATTTNCN
AAATAAAAGGGCCCTCTGGTGGAAAANGGGNCTGGAAATTAACCTT

Sequence 1038

CGCCNCGCGTCCGCAAGACTTTGAAAAATNNGATCATGGTTCTTCTCAAAATACCAGCAT
GTCTAGCATCTATCAGAATTGTGCAATGGAGGTTTTGATGTCCAGTTGTTCACAGTGTAG
AGCTTGTGGAGCTTTAGTTTATGATGAAGAAATTATGGCTGGATGGACAGCAGATGACTC
AAATTTGAATACAGCTTGTCCATTCTGTAAAAGCAACTTCTTGCCTCTTCTCAATATAGA
ATTCAAAGATTTGAGAGGTTCTGCAAGCTTTTTCCTGAAACCAAGTACCTCTGGTGACAG
TTTACAAAGTGGAAGCATTCCATTGGCAAATGAATCCTTGGAGCACAAACCTGTATCCAG
TTTAGCAGAACCTGACTTGATCAACTTTATGGACTTCCCAAAACATAACCAGGATCATAA
CTGAAGAAACAGGCTCTTGCAGTTGACCCAAGTGATGAAATAAAGAGAGCCAGTGGGAGA
TGTCCAAACTATTGAAAATTTCATCTGTGNCTTAATAGGTTTATC

Sequence 1039

TGANATTAGCATCACTTCGTCTACTAAGAATCTTAATAGATGTAAAAATATCTTTTAAAA
CATATGGTAGGATGGGTAAAATTTGGCAATACTATCCAGGAAGTCACTAAGTACAGATGA
ACTGATTTAGTCCTAATTCCAAGAAGTGTGATTCCACCTACTTGACTAGAAATTTATACC

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TGGTAATAACTCCTTGTCCTTGAAGATTTTCAACTAAGGAAAACTGTTTTTCAGCAGGAC
CTGATTATGCACTGCTATCTAGGTAGGGTCACTTATGGTTTTATAATATATTTAATTGGA
TTATAATATTCCTTTTTTCTTGTCTCTTGGACAAAATCCTAGCTTTACTGTAATTTAAAA
AGATGAGTTTAAAATTTCAGGCTTTAAAAACATACCAAACATTGATAAAAATGAAATCTA
GATAAAAGTATTTTATCAATGTTCAGTTGCCTGGATTCAATAACTGTATTATGGTTATGT
AAGGATAATATCTTAGGAAATCACATTATGGTATTAA

Sequence 1040

GTCGACCCCGCGTCCGGTAGCTTAGTTGAGTAGATAATCTTTTGTTGTTTCCTCCTTGTA
ATATACAAGCCTTGGCTTCTGTGACATCATACTCTCCTAGATTTCCCCCTGTCACTGTGG
CTTCTTCTCAGTCTCTGTCCATCCCTGGTGCTCCTGAAGGTTCTGTTCTCAGCCTTACAC
ACATTACCTGGGTGATCTCATTCTCTGCCATGACTTCACTTGCCATATATGTGCTGATTT
TCCCCAAATTCCTATTTCTCCCGACCTTTACATCTATTTTATTTGCAGGTCATATATCTA
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AGTCCAATTAATAAATGGAGAAGAGATTTGAATGAACATTTTTCTAAAGAACATCTCAAG
CTCAAGATTTCCCAGATAACTTTTCTTTCTTCAAAATCTGCTTCTGTGTTTCCTCATCTG
TAGGTGGCACAGCATACATCTGATTTCCCAAGCCAGAAACCTCATAGTTATTCTTGACTC
CAGGAAGAAATATTATTGAGTTTTTAAAAACTC

Sequence 1041

CGACCCCGCGTCCGTGCTGAACTGAGCTCAGGTGTGTTTTTCTTCCAAGCTTTCTAGCAA
GGTTTCTACTTAAAATCACCTGTGTGCAAGCCCAAAGGACATTTCATCTATTCTAAGCAG
AAAGGCTGTTTTGTTCATTACAGTGAGTGCTGTTCATCTCATGGAGTGGGAGGAGCACTA
AACCAGGAGACAGAGGACATGGATTTGGTTTCCAGCTTAACCAGTTAGGACTCTGTCCTC
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GAGATGATGTATGTTCATACTTTTGGAATCTCTAATTTAAAGTCTTAATATTTTGTCTTC
TGAGTGTGAGGGGATAAACCTGGATGTAGACTATTAAGCAGCATAGGAGAAAAGAACAAT
AGAATCTAATGGACTGGGTTTGCAATCTCTCTCTAAATGCACTGCTTCAGACAAAGTGAA
ATCCAAAGGTGTGAAAAAGTATAGCTGCAAATTGGAAAAATGTGTTTCAAGAGT

Sequence 1042

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TCTGACTCCTGCGGGCCTTCCAGCCGGCGCTATCTCGCAGCCCCCGACCAGCTCGGCCTG
CTGTCGGGCATCTCTGCTGTCCTCCGGCTGTAGGGCTACCTGCTCCCTCCCGGGGGGTGC
ACTGCGAGTCCGACTCTAGTGGGGGCAGCGCCTAGCGGACTCCCAAACCCGCTCAGGTCC
TGCCGGCCTCACCGGCACCGCCCACCCTCCAGCCGGCCGCGGCTCTGCGCTTGCGCGCCG
GCAGCACACAAGTGTTAGGGGCGCGCCCTCTGCTCTGGACATGCGCGCCGTCGCGAGCGT
CTCTGGGACCGGAAGTGCGGGCGAGCGCGGNTCCCCGGGTCTGACAGGAGCAAGCTGTGG
GCACCGNGGCGGTAGTTGGAGGCGGNAGAGGGTNCGTAGCCGNGCCGNCTGCCCGNCATG
GGCCTNC

Sequence 1043

AGTCGACCCCGCGTCCGCAGGGGCGTGTTGGCCCCGCACAGATTGAGCCGAGTTGTCGCC
CCGCTGGGAGAAGTGACCCTCCTGCGCCTGAAAAGAAATTTCATTTCAATATAGGTGACT
ATGCAGCCTGCAATTCAAGTATGGTTTGGAGAAGATCTGCCTCTAAGTCCTCGGAGTCCT
CTGACTCCCAGACACGGACCAGGATTGGCTAATGTTTGTCAGTACGATGAGTGGATAGCT
GTGAGGCATGAAGCCACTTTGTTGCCCATGCAAGAAGATCTGTCAATCTGGTTATCTGGT
TTATTAGGTATTAAAGTTAAGGCAGAAAAATTATTGGAAGAACTTGATAATGGAGTACTA
TTATGTCAACTGATTGATGTTCTTCAAAACATGGTGAAAACATGCAACTCTGAAGAATCA
GGGAATTTTCCAATGAGAAAAGTGCCCTGTAAGAAAGATGCTGCATCAGGTTCATTCTTT
GCTCGGGACAATACCCGCAAACTTCCTTCACTGGTGTAGGGACATTGGGGTTGATGAAAC
TTA

Sequence 1044

ACGCGTCCGCCCACGCGTCCGGAGTCCTCCTCCCCGGGTGCCTGCCCGCAGCCCGCTCGG
CCCAGAGGGTGGGCGCGGGGCTGCCTCTACCGGCTGGCGGCTGTAACTCAGCGACCTTGG

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CCCGAAGGCTCTAGCAAGGACCCACCGACCCCAGCCGCGGCGGCCGGACTTTGCCCGGTG
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AGGACCGTGGTGAAGCCTCTGGGCTTCCTGAAGCCCTTCTCCTTGATGAAGGCTTCCAGC
CCGCTTCAAGGCACACCAGGATGCACTTGCCACGGNTTGCCGTGCCCCCTNTTCAGCAGT
CCCT

Sequence 1045

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AAAGCCACTACTGACCAAGGTCTCTTCAGTGCACTCGCTCCCTCTCTGGCTAAGGCATGC
ATTAGCCACTACACAAGTCATTAGTGAAAGTGGTCTTTTATGCCTCCCAGCAGACAGACA
TCAAGGATGAGTTAACCAGGAGACTACTCCTGTNACTGTGGAGCTCTGGAAGGCTTGGTG
GGAGTGAATTTGCCCACACCTTACAATTGTGGCAGGATCCAGAAGAGCCTGTCTTTTTAT
ATCCATTCCTTGATGTCATTGGCCTTTNCCACCGATTTCATTACGGTGCCACGCANTCAT
G

Sequence 1046

ACCACGCGTCCGCCCACGCGTCCGGGCGGGGGCATGGACTACTGACCCATGCGGGGCAGC
GTCCCTGTGACCTGGCCGATGAGGAAGTACTGAGCCTGTTGGAGGAACTGGCCCGGAAAC
AGGAGGACCTTCGGAACCAAAAAGAAGCTTCCCAGAGCCGGGGCCAGAGCCCCAAGCGCC
CTCTAGCAGCAAACACAGAAGGAGCTCTGTGTGTCGTCTGAGCAGTCGCGAGAAGATTTC
CCTCCAGGACTTGTCCAAGGAGCGCCGGCCTGGTGGGGCTGGGGGGCCCCCCATCCAGGA
CGAGGATGAGGGGGAAGAAGGTCCCACCGAACCACCCCCTGCAGAACCCAGAACCCTCAA
TGGCGTCTCCTCCCCGCCGCACCCCAGCCCTAAGAGTCCCGTGCAGCTTGAAGAGGCCCC
CTTCTCCAGGCGCTTTGGCCTCCTGAAGACAGGGAGTTCTGGTGCCCTGGGTCCCCCTGA
AAGGCGGACAGCGGAGGGAGCCCCTGGGGCTGGGCTTGCAACGCTCGGCTTTCTTCTCCT
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CCTTCCCGAAGCTTGCCGGAGCCCTTNTGTCCTTGTCTGAGGGTCACCAAGCCTTCTTCC
TTTGCTTGGGAGAACTTCCTTGNCTTNCCTTCAGGAATTCCNGAGCCTGGATTCCCAGCG
AANCCNAACGTTCCCACAGGCTTTCACGGGGC

Sequence 1047

TGTCGACCCACGCGTCCGCTCCCCGCCGAGGCCTCCTGCACCACCTAGAGCCCCACCCCC
GACCCCACCCCGGGAGGGCAGAGCCAGAAGAAGGCTCATTAGACCTGGGGGACCCAAAGG
GTCTGGCCTCTTTGGGCAGCCCCAGAGATGAGGGGTCAGCAGAGGAGAGCTCTGGGGTTG
GGGATGGGTTAGGGACGCAAGCTTGAGTTCTAGCCCTTGCTCTCATTCAGCTGTTGTGTG
ACCCTGGGTAAGACCCTTCCTTGTTTGACCCTCAGCTTTCCCATCTGTTTAATGGTGGCT
TTGGCCAAGGCAATCCACAAACGTCAAAATTCCCCTTCCCATCAGTACACACACCGATGC
ACACACACTCTCTCTTTCTCTCTCTCTCTCTCTCTCTCACACACACACACACACACACAC
ACACACACACACACTAGTTAGTGCCTTGGATGAGGCGGGGCAGTGTGTATATGGACCCCT
GGACTTGCTACCTTCAGGGTTCCATACTCGTCCCTCCCCTCCTGGCTCTGCTGTCTGGAG
TCTGGCAAGCGGG

Sequence 1048

CGCGTCCGCCACGCGTCCGCCGNCCGCCGCCTGCCTGGGCCGGGCCCGAGGATGCGGCGC
AGCGCCTCGGCGGCCAGGCTTGCTCCCCTCCGGCACGCCTGCTAACTTCCCCCGGTACGT
CCCCGTTCGCCCGCCGGGCCGCCCCGTCTCCCCGCGCCCTACGGTCGGGTCCTCCAGGAG
CGCCAGGCGCTGNCGCCGTGTGCCNTCCGCCGNTCGCCCGCGCGCCCGCGCTNCCCGCCT
GCGCCCAGCGCCCCGCGCCCGCGCCCAGTCCTCGGGCGGTCATGCTGCCCCTCTGCCTCG
TGGCCGACCTGCTGNTGGCCGCCGGGCCCGGGCCGAGCCTGGG

Sequence 1049

NCCACGCGTCCGCAAGGCGCTACGTTTATTGCCTCGTCTTATTCACTGACCTTTGTAATG
ATACACAGTGAATTCTTTTTGACAAAGAGAAATGCAGTGTAGTATGCAGAGCTGCTGTTT
TAATGCCTATGCATTTACTCTTTCCTGATTTAGGCAGAGGTGGCATTTTCTTTATTGCAT
TTCTCTATTTTTTTTAATGTACCCTACCTTCAGTATTCTCTTTGTAAGTTGGTGACTTGCA
TCTGTGGCCTTGAATATTTTATTATCACATGTGGCATAACAGTATCCACACTTTTTAGTT

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CTTTATTTTTTTTTTTTTATTTTGAGCAATTCTCCTGCCTCAGCCTCCCAAATAGCTGGG
ATTACAGGGTGCATGCCACCACACCCAGCTAATT
Sequence 1050
CGCCCCGCGTCCGGGATGGACAAGACAAATCTCTTGTAAAAAAAATTACAAGTAATTTTT
ATAGAAGCTCTGCCCTGAGGGAGGGGGAGCGTGACTTCTCACTCCTTCAGTGTGGGCTGC
ACAAGTGACTTCCTTCCATATGGGATCGTTATAACAAAAGACTGTAACAAGGGCTATGGG
AGTTATAAGACAGGAATTGTGGACAAAAACCAGTGTATATCATAACATCACACCTTGTAA
TGTTGGCAGTACAGTCACTGACCTTTGATAAATGTTGATGACATGTTGAGTAAAGGAATG
AGAGAAAGAGGATTGTTTATCTCTGTTTTTATCCTTCTCAGAGAAACTTAGAGTAACAAG
GTGTGTTATCAGCCATGCTGATGCCTTTGGTAAACTATTGTGTGANATNGGGTGGTTTGA
ATTGGTCAAGTAGAAACTGGGGCTGCCAGGCGCAGCCGGTAAGCATTTNCATGTGAGCCT
TAGGGAANAAGTGCATTTTGGTAGGAGCCATCAAAAATAGCTTCTTGATATTTCATTAAA
AG
Sequence 1051
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TGGACGACCCACCGGAGCCCGTGTACGCGAACATAGAGAGGCAGCCCCGGGCCACTTCAC
CGGGCGCCGCTGCAGCCCCCCTTCCCAGCCCGGTGTGGGAGACGCACACGGACGCGGGCA
CCGGGCGCCCCTACTACTACAACCCAGACACGGGAGTTACCACCTGGGAGTCGCCCTTTG
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GCCTTGAGACCGAGTGGGGCCAGTACTGGGATGAGGAGAGCCGCAGGGTGTTCTTCTACA
ACCCGCTGACGGGCGAGACGGCCTGGGAGGACGAGGCCGAGAACGAGCCCGAGGAGGAGT
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Sequence 1052
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CAACTGTGAAAGTTCCTTTTCTTAAGAAATGCAAGGAAGCAGGACTTCTTAATTACTTAC
TTGAAGAAATATTAGACAAAGTTCATTCAATTCCAGAAAAACTCATGGATGAGACTACTT
CAGAATCAGACTATGAAGAAATCGGGAGTGCACTTTTTGACTGTAGATTGTTCGAAGACA
CATTTGTAAATTTTCAAGCAGCAATAGAGAAAAAAATTCATGCATCTCAACAAAGGTGGC
AGCAGTTGAAGGAAGAGATTGAGCTACTTCAGGACTTAAAACAAACCTTGTGCTCTTTTC
AAGAAAATAGGAGATCTTATGTCAAGTTCTACATCAATATCATCCCTGTCTTATTAGGGA
TTACCGTTTCCTAAGCCAAGAGTCATGTCAAATTGCAATCAGGC
Sequence 1053
GACCCCGCGTCCGGGAGGTTGAACGTTCAGGCTAAGACCGTTACTGAATTGGTTACTAAG
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TGTCAGGACATCAGAGTGTTGGGGCGCAAGGAGCTCAGGTCGCTACTAAACTGGAGAACA
AAACTTCGGCGATATGTGGCCAAGAAGCTGAAAGAACAAGCAAAGGCACTGGACATCAGC
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CAGCCCTCTAAGGAGGAGGAGGAAGAGGAGGAGGAGGAACAACTGAACCAGACCTTGGCA
GAAATGAAGGCCCAGGANGTGGCGGAATTGAAGAGGA
Sequence 1054
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ATTTGCAGTGGAGAAAAGAACCCGACGTCCCACAGCCAGATATACACCCAGCTCCATGCC
AGCCCTTCATGTTTACCTTTTGCTTTGTTAATTACATGTCAGACTCCTAGAGGGCCTCCA
GACTAATAGGAAGCATTTCTGTAACCAACCTGCCACCCACTGATTCAGAAATGGAAATCA
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NAAAAAAAAAAAAAAAAAAAANAAAAANNNANAAAAANNAANAAANAAAANNAAAAANGG
GGNnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnGGTNCAAAT
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GGTTGG

Sequence 1055
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CATGGTGTCTGACACCGAGGGCCGTTGTTCGTCCATCAGGCGGGATTGGATGGAGTCTTG
GTGTTTTGCCTTCTCAGGGACCAAAAATGTATCATTGACTCCTTAACAGTGACCTTCCTC
CCAAGGACATATCCGTGTTCATTTTTCATAGGTTTTACTCATATTCATAGGTAGATTCTG
TTAATGTGAGTTGGAAAGAAAAGACCAATTTGTACACCAGTCACACCACAAGACAGTTTA
TCATATAAAATACCTCAATTTTTTGTATTCCTCATTTCCACCTCACAATTGTACTGGTGA
TGAATTTTAAGGGTCTG

Sequence 1056
TCGCCNCGCGTCCGGGCAAGGAAGGCTCTGTTAATTTATAGCTGTTTAGAGGGGAAAGCA
GTGCAGACCACTTATTAAGCCCGCTGAGGACTAGCTTTCTGTCTTTCATACATTTGGGAA
AGATAGGAATGACTGTTTCAAAGAAGAGAGGTGCACATAATTTATGCAGGCAAGTATGAT
ACTTATTTCATTGGTTTTGTGAGTCATATATATACATATATATATATACACATATATATA
TGACTTGAAAATTAAGATTTAATACTTTAATGTTTTAAGTGTGGGGGGTTTGGGAAGGAA
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TATTCAGTGGGTTTGAGGTTTGGACTACTTTCTTCAAACTTAGAGAATTATAACAGGATG
GTGTTTACCTTTGTTCACCTGGGATGTCCCCAAGACTCTAGCTTCTTCTATCAAGTGGTT
GGGTCTGATAGAAGAGGTAAAAATTGCTCTTGAAAATNNTCTACAATTATGCAGGTTCTT
TGATAAAATTTTCTGGTTAAATCC

Sequence 1057
CCNCGCGTCCGCCNCGCGTCCGCCCAGGCCTGGGCCGGGCCGTGACGGCGGCGCTAGGAC
CCGGCGGGCCGCGGGTGCGGCGAGGCCTGGGCGGCCTGAGGAGCGCGGACCCCGGCGCTC
GGCTCCCGGCGCCATGTGAGGGGGCTCGGGGGCCGCGGGGGGCCGGGCGCTCCCCGCCGG
AGGTGTGAACCCACATCCCTGCCCCCAGGGCCACCTGCAGGACGCCGACACCTACCCCTC
AGCAGACGCCGGAGAGAAATGAGTAGCAACAAAGAGCAGCGGTCAGCANTGTTCGTGATC
CTNTTTGCCCTCATCACCATCCTCATCCTNTACAGCTCCAACAGTGCCAATGAGGTNTTN
CATTACGGNTNCCTGCGGGGCCGTANCCGCCGNCCTGTCAACCTCAAGAAGTGGAGCAT

Sequence 1058
TGGGGCCGGGAGGAAGTCTAACCTTTGGGAGACTCCAAGACCGCAGCTCCGAGGTCGGCG
GGGGTCTGGGTGGCCATGGAGGAGCCCCCTGTGCGAGAAGAGGAAGAGGAGGAGGGAGAG
GAGGACGAGGAGAGGGACTAGGTTGGGCCCGAGGGGGCGCTTGGCAAAGAAGCCCCTTCC
AGCTGACCGCCGAGGACNGTGTATNACATCTNCTACCTG

Sequence 1059
TGGCGATCGCTGAGAGGCACGGAGGGCCGAGGCGGNCCTGGGAGGCGGCCCGGAGGTGGG
GCGCCGCTGGGGCCGGCCCGCACGGGCTTCATNTGAGGGCGCACGGNCCGCGACCGAGCG
TGCGGACTGGCCTCCCAAGCGTGGGGCNGACAAGCTGNCGGAGCTGCAATGGGCCGCGGC
TGGGGATTCTTGNTTGGCCTCCTGGGCGCCGTGTGGCTGCTCAGCTCGGGCCACGGAGAG
GAGCAGCCCCCGGAGACAGNGGCACANAGGTGCTTCTGCCAGGTTAGTGGTTACTTGGAT
GATTGTACCTGTGATGTTTGAAACCATTGATAGATTTAATAACTACAGGCTTTTTCCCAA
GACTACAAAAACTTCTTGAAAGTGACTACTTTAGGTATTACAAGGTAAACCTGAAGAGGC
CCGTGTCCTTTTTGGAATGACATCAGCCAGTGTGGAAGA

Sequence 1060
CCACGCGTCCGGGGTGTTGGTGCGGCGCTGTTGGGGTCCTCCGCTGGCTCATGGCGCCAG
GCGTGGGAGGCCGAGTCCCCAGTGGCGAGCACTGGCCCGACTCGGCTGGGAGGACTGCCG
GGACTCCAGAGTCCGCGAGGCGCTGCGGGCGCTGCACGCCGCCAGGGAAAACAAAGAAGA
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AGTGAAGCAATATGCTGTGCAGTCTCAGCTTCCCGTATATGAGTGGCCGGATGTGGGATC
TGGAGAATATGATGTTGGAGTAGTGGCTTCGTTTGGCCGACTTTTGAATGAGGCTCTTAT
TCTTAAATTTCCCTATGGCATATTGAATGTTTCATCCCAGTTGCCTCCCGAGATGGCGTG
GCCCAGCCCCTGTAATCCATACAGNTGCTTCACGGAGACACAGTTACNTGGAGTAACAAT
TTATGCAAATTAGACCTAA

Sequence 1061

GCCGGTTCTTAGGGAGGCAGGTGCTGGCCTGGCCTGGATCTTCCCCATGTTCCTGTTGCT
GCCTTTTGATACGCCTGATTGTCAACCTTCTGGGCATCTCCCTGACTGTCCTCTTCACCC
TCCTTCTCGTTTTCATCATAGTGCCAGCCATTTTTGGAGTCTCCTTTGGTATCCGCAAAC
TCTACATGAAAAGTCTGTTAAAAATCTTTGCGTGGGCTACCTTGAGAATGGAGCGAGGAG
CCAAGGAGAAGAACCACCAGCTTTACAAGCCCTACACCAACGGAATCATTGCAAAGGATC
CCACTTCACTAGAAGAAGAGATCAAAGAGATTCGTCGAAGTGGTAGTAGTAAGGCTCTGG
ACAACACTCCAGAGTTCGAGCTCTCTGACATTTTCTACTTTTGCCGGAAAGGAATGGAGA
CCATTATGGATGATGAGGTGACAAAGAGATTCTCAGCAGAAGAACTGGAGTCCTGGAACC
TGCTGAGCAGAACCAATT

Sequence 1062

CCNCGCGTCCGCTTTGAATNCTTATCTTTGATTTAATTTACACGCCAGCATTTTGCCACG
TTCTAAATAATATTTAGCTCAACTGATTCATACGTATTAATGACCATTCTAGCAAAGGCC
TACAAGTGGTGTGGGAATCAGGGAAAGGCTGCCTCTTTGGTATCTCAACTGGTATTGATT
ATTGCTATCAACTATTTGGGGAGAAAAAATCAAAATGAAGCCCTGTCAAATTTTAGAAGT
ACTATCTTTGGTCCTTCAAACACTTTGTGATGACACCTTAAGAAAAATAAAGTTGAAGTT
CAGGTCTTGCCATTGCCATTACAGACAAATTAGGAGACTTGGTTTACCTGGGAACAAATT
TACTTGAATATTCAGTACCTGAAACTATGCCAAACCAAAGAGCAGCTGCAGTACATTCGT
TATTTTAAATGAACAAGGTTTACAAAGNTTATTTTCATCTATACCGTAAGGNTGGATTTT
TTTTNAA

Sequence 1063

GTCACCACGCGTCCGCCNCGCGTCCGGCGTGCATGGAGGAACGCTGGGCACGGGCCCGGC
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CACTCGGGCCGCATCGCCGCGGTGCACAACGTGCCGCTGAGCGTGCTCATCCGGCCGCTG
CCGTCCGTGTTGGACCCCGCCAAGGTGCAGAGCCTCGTGGACACGATCCGGGAGGACCCA
NACAGCGTGCCCCCCATCGATGTCCTCTGGATCAAAGGGGCCCAGGGAGGTGACTACTTC
TACTCCTTTGGGGGCTTGCCACCGTTACGCGGNCTTACCANAACTGCAGGCGAGAAGACC
ATTCCCCGCCAAA

Sequence 1064

GTGCCACGCGTCCGCCACGCGTCCGCCTGCCCCTCGCCGCCCGCCGCCTGCCTGGGCCGG
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GGTCGGGTCCTCCAGGAGCGCCAGGCGCTGCCGCCGTGTGCCCTCCGCCGCTCGCCCGCG
CGCCCGCGCTCCCCGCCTGCGCCCAGCGCCCCGCGCCCGCGCCCAGTCCTCGGGCGGTCA
TGCTGCCCCTCTGCCTCGTGGCCGCCCTGCTGCTGGCCGCCGGGCCCGGGCCGAGCCTGG
GCGACNAAGCCATCCACTGCCCGCCCTGCTCCGAAGAGAAGCTGGCGCGCTGCCGCCCCC
CCGTGGGCTGCAAGGAGCTGGTGCGAGAGCCGGGCTGCGGCTGTTGCGCCACTTGCGCCC
TGGGCTTGGGGA

Sequence 1065

CGCGTCCGAACGGCATCATCACGCCCGCCACCATCCCCAGCCTGGGCCCCTGGGGAGTCC
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AGCTCCTCAATCAGTTTGAAAACACAGGCCCCCCACCGGCAGATAAAGAGAAAATCCAGG
CCCTCCCCACCGTCCCCGTCACTGAGGAGCACGTAGGCTCCGGGCTCGAGTGCCCTGTGT
GCAAGGACGACTACGCGCTGGGTGAGCGTGTGCGGCAGCTGCCCTGCAACCACCTGTTCC
ACGACGGCTGCATCGTGCCCTGGCTGGAGCAGCACGACAGCTGCCCCGTCTGCCGAAAAA
GCCTNACGGGACAAGAACACGGCCACGAACCCCCCTGGCCTCACTGGGGTGAGCTTCTTC

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TTCTTGTCGTCATCGTCCTTCTTCAAGCTTGGCCAGCAACGAGAACGCCACAAGGAAACT
NGTGAGCCCACGTTNGGCCGTCGGGAAAACACGGGGN
Sequence 1066
CGCGTCCGGCCTCCAGCACATCCTGCCTGCAGAGGGTCTGGCTAGCTGCCTTTTCAGCTC
TCGAGGGATAGAGATTCTACAACCTCCCTCTGTCATCAGTTCCAGAGCCACTCCCCTTTG
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AGTGACAGGGGAAACAGGCAGAACAAGTCAGGGCAAAGGACCCCAGCATGAATAGTTGTG
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CAGCTGACTCCAAGCCTTGTGGAAACTCTAGAAGGTAGAACCAGCCATCTGGGGAAGCTG
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GAATCTAGACATTCCACTGCAGCCTGGGAAGAAGCCTGTGTTTTTCTTTAAAAAGTCT
Sequence 1067
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CCCTCCTTCTCGTTTTCATCATAGTGCCAGCCATTTTTGGAGTCTCCTTTGGTATCCGCA
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TGGACAACACTCCAGAGTTCGAGCTCTCTGACATTTTCTACTTTTGCCGGAAAGGAATGG
A
Sequence 1068
TCGACCCCGCGTCCGGCTGGTTTTCCGTCTGGTGAGGGGTTACTTCCGGGTCGGACGGCG
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CGCGCGGCCGGCGATGCANGGGGGCAACTCCGGGGTCCGCAAGCGCGAAGAGGAGGGCGA
CCGGGGCTGGGGCTGTGGCTGCGCCGCCGGCCATCGACTTTCCCGCCGAGGGCCCGGACC
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GCACNTTGAGCCCACTGTGCATGAACCA
Sequence 1069
CCGTCCGGGAGGTTGAAGTTCAGGCTAAGACCGTTACTGAATTGGTTACTAAGAAGAAGC
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ACTTCCTCCGAGCTGCCAACCCTGTTGACTTCCTCTCCAAGGCCAGCGAAATCATGGTAG
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ACATCAGAGTGTTGGGGCGCAAGGAGCTCAGGTCGCTACTAAACTGGAGAACAAAACTTC
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CTGGAGAGGAAGATGAAGGTGATGAGGAGGACTCAACAGCTGGAACCACAAAGCAGCCCT
CTAAGGAGGAGGAGGGAAGAGGAGGAGGGAGGAACAACTGAACCAGACCTTGGCAGAAAT
GAAGGCCCAGGAGGTGGCGGAATTGAAGAGGAAAGAAAAAGAAG
Sequence 1070
GCGTCCGGTGCTGGAGGAAAATGTTTCTGGGGAAGATGACTCAGTCATTTTGTGGCGAGA
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AGCGGAGATGTTTTTTGCAAAATGAAACTGAAGCTGAAAGAAAGGAGAATTCGAGTGAAC
CAAGAGAAATCCAAAGACCTGGGGAAGGAGGACTTAAGATGAAAGTGAAGCAAGAGAGGG
AAGGGGAAATGAAGTGAAAATGGCGTGAGGGTGTGAGAGAGGTTTGGGTTAGGAAACATG
TTTTTAGTGCTATTTNCAACCAGGG
Sequence 1071
CACGCGTCCGGGACTGATCTCNAGGACCAGCACTCTTCTCCCAGCCCTTAGGGTCCTGCT
CGGCCAAGGCCTTCCCTGCCATGCGACCTGTCAGTGTCTGGCAGTGGAGCCCCTGGGGGC
TGCTGCTGTGCCTGCTGTGCAGTTCGTGCTTGGGGTCTCCGTCCCCTTCCACGGGCCCTG
AGAAGAAGGCCGGGAGCCAGGGGCTTCGGTTCCGGCTGGCTGGCTTCCCAGGAAGCCCTA
CGAGGGCCGCGTGGAGATACAGCGAGCTGGTGAATGGGGCACCATCTGCGATGATGACTT

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CACGCTGCAGGCTGCCCACATCCTCTGCCGGGAGCTGGGCTTCACAGAGGCCACAGGCTG
GACCCACAGTGCCAAATATGGCCCTGGAACAGGCCGCATCTGGCTGGACAACTTGAGCTG
CAGTGGGACCGAGCAGAGTGTGACTGAATGTGCCTCCCGGGGC

Sequence 1072

CCCGCGTCCGCGCGACGGCCGCGGCGCGGGACCTTAGGACCCGCGGGCTCCAGGGCTACT
GTCCGTCCGCCACTGCGCGCCAGCAGGTCCTGGTCTCCGCTCTCCAACAGCTGAAAGGCC
GGCGCAGTGAACACAGAAACGAAAACCAAGAAATGCCTTATTCCACAAACAAAGAGTTGA
TACTTGGCATCATGGTGGGCACTGCTGGAATCAGCTTGCTGCTCTTGTGGTACCACAAGG
TCCGTAAACCAGGGATAGCAATGAAGTTACCTGAATTTCTTTCTCTGGGTAATACATTTA
ATTCAATAACTTTGCAAGATGAAATACATGATGACCAAGGAACAACAGTAATCTTTCAAG
AAAGGCAACTTCAGATACTGGAGAAGTTAAACGAATTCTGACAAATATGGAAGAACTCAA
AGAGGAAATCAGATTTCTTAAAGAAGCTATTCCAAAGCTGGAGGAATATTTACAAGGATG
AACTTGGGAGG

Sequence 1073

CGCGTCCGCTGAGTTCNAGGATGGTTTTTTCTTGGGACCAGACATGAACAAAAGTTGACC
TCATGAGCACTTCAACCTCTCCAGCTGCCATGCTCCTCCGGAGGCTGCGGCGACTCTCCT
GGGGCAGCACTGCTGTCCAGCTCTTCATCCTAACAGTGGTGACAGTTTGGCCTGCTGGCC
CCCCTGGCCTGTCACCGACTTCTACACTCTTACTTCTATCTGCGCCATTGGCATCTGAAC
CAAATGAGCCAAGAGTTCCTGCAGCAAAGCTTGAAAGAGGGTGAGGCTGCCCTCCACTAT
TTTGAGGAGCTTCCCTCTGCCAATGGCTCAGTGCCCATTGTCTGGCAGGCCACCCCCCGG
CCCTGGCTGGTGATCACCATCATCACTGTGGACAGGCAGCCTG

Sequence 1074

CGTCCGTGAAAATCCAAAGATGTATCATTTTTATTTGAATCCATCATGCAGTGTACATTT
CAGATAATTTCCTTCAGTCTCCAGATAGGAGTGTATCCAAACATCTAATTTTATGTGCAC
TGTGTATCTTATATGAATGTTTTATTTTATATACCACATGCAAAAATGNCCATATGCACT
ATTTAAATGTTTTAAATAATATATTCCTTCTTTATAATGCTAAATCTATATGAGTACCAT
ATTTTTATAAGTCAGTGGTCTGACNGGNTTCATTTTTNAANTAACNNNNGCTTCAAAATG
GGTATTCAANGNGAAAAGGGTGGNTGTGAGGAGAANATGTGAAAGNGGNNTGGGNGNNCT
CTTTTGCCTTTGGGCCAGGAATTNGGGGGGCNAAAATNNACCCANAACCTGGNNNAAAAN
TAGGNCCANTTGGGGGNGANAGGTTTCACTTTGGGGCNCAAAAANAAAANCCCGGGGTTT
TTTNTNTTTNCCAAAATANATTNTTTTTGGGATTTTTTTTTTGTNCCCCCCCCGNATTAAA
TGGGGANTTGGCTGGNGTCTTGGCNCCTNTCATTTGTGCCAGACCTTTTTTTTTATTAAAA
AAGAACCTTGGGAAAGGTCTTAAGTNCATTTGGGAAAAAAAAAAAAAAAAAA

Sequence 1075

GAGCCGNCCCACGCGTCCNCGGNCGCGTGGGCTACCTTGGAAGCAGTCATCTCTCAGTCT
TACATTTGGAGAATGTGGATGGCATGACATCAGAATTCCTTTATATAATTTAACTTCAGA
ATAGTCTGAGATCATCGAAGCACGATGGTCAAGGGAATTCCGTTTTTGTTTTAGAGCAAA
TATGTTTGCTGTTTGTCTTTCATCACAAACATCAGTGGAGTTTCAGCACCTTACAGAGCT
CAGTGAACCCCCTGGTCACCATCAAAGTTAGCACACAACAAAGCCAACCACGTGTCCCCC
TCACAGATGACAATGGCTGAACTCTGAGTGAAACCACCTGTATGGCCGGGCACAGTGGCT
CA

Sequence 1076

GCCCCGCGTCCGCTTTTTGAGAATCTCTGCTCTGTTCCTAGGTTCAGTGCTGGGTCCTGG
GAATACAGCAGGACAGACCTCAGCTTATCTCTTCATAGAAATTATACAAAGAGAATTGGG
GAGACAGCTAAGAAGAAAACAAAGAAATAAAGCAGTTACAAATTGTGATAAAGTGCTTTT
GAAGGAAAGAAGGGGTCTGAGACAACAACAGGGAAGGGGCCTCTCTTGAAACAGTAGTTG
GGAAGGAGGCAGACATGCACCAGTGATGTGGTGACAGGTGCTCTGAAGGAGGTCACCAGG
ACCTGACCTCTTTGAAGGATCAGAAAATACTTCCCTGAAGGACTGACATTTGAGCCTAGA
CCTGAAGGGTGAGCCATCAAGCTAAGACAATTGGGGAAGAGCATTCCANGGAGAGGGAG

Sequence 1077

CGCGTCCGATCTTTGTCTGCTTTCCTATAACTCAGTACTGTAACTCAGTACTCTGAAATA

TABLE 1

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GTTTCCTTTGTTAATAGAGTCACTTTTATAGTACTGNGCTTGAGGNNATATACAGAGTAT
TGTGTCCAAATTTATCATTGCACAAAGTGTTTTTGGAAATTCTTGGTTACTCCTTAGTAA
ATTACCTGTAATTGGGTTAAATGCTGGTAGGGTTTAAAATCTGATTGCTAAAGTGAATTC
TCTATAAAGTGAGTTTTGATACATAGAAACTTTNCATATAATTCTTAAACTCATGTGTCA
TGTATTTTCATTTATAGTTTTTCATATTCATTAACATATGTTGTTCCTTACCATTTACAG
CTCANAATTCTGCANATGCAGATTTTTGCAAACTTTGATGCATTTGGACAGTCTAGTGGT
TCGAGTAATTTTGGAGGTTT

Sequence 1078

TNCGGGCGGCTGCGGCGGGCGGGCAGGCGGGCAGGCCGGCAGGCGGGTGCGCGGAGGGCT
GGTACCCCTNAGCAGGTGGGCGGGGTGCGGTTGGNGGCGGCGGCTGGGCCGGGGGCTGCC
CGGCTGCGCTCGGGCCGTGCGCGGNGGCCGTGCGGGCACGCCATGGACTTCAACATGAAG
AAGCTGGCCGTCGGACNGCGGGCATCTNTNTTCACCCGGGCCGGTGCANTTCACGGAGGA
GAAATTTGGCCAGGCTGAGAAGACTTGAGCTTGATGCCCACTTTGAAAACCCTTCTGGCC
CGGGCAGACAGCACCAAGAACTGGACAAGAAGAAGATCTTGAGGCAAGACAAGAGGTGCC
TGCTGCAGCCCCAACCCCAGTGCCCCGAGTGGAGGGAATTANCTGTATGAAGAAGCTTG

Sequence 1079

CACGCGTCCGTGCTGAGCGGTCCCGAGGGGAGGGGCCTGAGGCCGAGTTCCAGTCGCTGA
CCCCTAGCCAGATCAAGTCCATGGAGAAGGGGGGAAAAGGTCTTGCCTCCCTGCTACCGGC
AGGAACCTGCCCCGAAGGACAGGGAGGCCAAGGTGGAAAGGCCCAGCACCCTCCGTCAGG
AGCAGCGTCCTCTTCCCAACGTGAGCACCGAACGTGAGAGACCCCAGCCTGTCCAGGCCT
TCAGCAGTGCACTGCACGAGGCTGCCCCCTCCCAGCTCGAGGGGAAGCTGCCATCTCCTG
ATGTCAGGCAGGACGATGGGGAAGACACCCTGTTCTCGGAACCCAAGTTTGCACAGGTCA
AGCTCAAGTAATGTCGTCTTGAAGACGGGATTTGATTTTCTGGACAATTGGTAAAATGTA
TTAGAAAAATACAATGAAAGAACCCTAAAATGTTTTCCAAAATGGTGTGGTGGAGGAGGA
TAAAAAAGGGCCACCTTTTCCTATGTATTTTACTGGTTTCTTGACACTCTTTTCTTAATC
ATTTGGAAACTGGTCAATACTGNCAGATTTTTT

Sequence 1080

GTAAGCCAGGTGCTCCCCCTTCACTTCCTGTGTGCGGAGCACGCTCGCCCTGGGAGTTTC
ACTAGAAAGAAGGTTGCCATGGGCCAGTGGGACAGCTTGGATCTCAAGTGCACGCGGATG
CCCCAGAATCCCAGGATCTCAGCTGAGCTGTTTGTGGATTATTAGATCTGACTTAAAAGA
ATATTATCCAGCAATGCAAATGAACAAACTATAACTACACACAGCTGCATGGATAAATGT
CAGAAACATGACGTTGAAGTGTGAGAAGCCAGATGCAAACCGAGGACTCACTGTGCAATT
CTGTGCATGTACAGTGGCCAGGAGAAGGGAGCACTGGCTTTTGCTTTCATCAGGCCAAAG
ATGCCTTTCTTTGGGAATACGTTCAAGTCCCAAGAAAGACACCTCCTCGGAAGGTCGGCA
TCTTTCTCCAACCTGCATTCTTTGGATCGATCAACCCGGGAGGTGGAGCTGGGCTTTGAA
TACCGATCCCCCGACTATGAACCTGGCAGGGCAAAAGCCTGAAAGTTTGAAAAT

Sequence 1081

TGCTCTCTCACCTGTTAGCTGTGTAGCATTGGGCAGGTTACTTAACCTGTCTGTGCTTCA
TCTGTGAAACAGGAATAACAGCATTATTAAGGATTGTTTTAGGATTGGATGGGTTAATAG
ATGTAAAGTCTTAGAACTATATTGAGCATCCCATCAAGGCATTGTATTATATTGAAACAA
TGGGGTTTNTTTCTCTTTATNCTTTTTTAAACTATATAATGAACACTTTTGATCTTAAGT
ATTNCTAA

Sequence 1082

CCCGCGTCCGGTGAATGTTAGTATTGGGTGTGGGATGCATCAGGGACACAGGTTTGTAAA
CCATGACAATTCAATTGTAAAACTAAAGCCNAGTGCCCCCTGTAGTCCCAACTGCTGGGG
AGGGTCACTTGANCCCTAGGGGGGGAAAATGCAGTGGACTGGATTTTGNGCCCTTTGCAC
TNCAAACTGGGTGACATAGTGAGGCCCTTGTCTTCTACCANAAAAAAAAAANNANNANNN
NNANGGTGCCGGGCCGCTTAGAACTAGGTCTTAGAAGAAAAAAACCCTCCCACAACCTTC
CCCCTGAACCCTGGAAAACATNAAAATGGAATGCCAATTNGTTTGGTTGGTTAACCTTTG
GTTTTATTTGCAAGCTTTATAAATNGGGTTTACCAAAATTAAAGGCCAATTANGCCATTC
ACCAAAAATTTTCACAAAAATAAAAGGCCATTTTTTTTTTCACCTGGCATTTCTTAGTTT

TABLE 1

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NNTGGGNTTTTGGTCCCAAAACCTCATCNAATGGGTANTCTTAATCATGTCCTNGGGATC
CCCCCCGGGTTACCCGGAGCCTTCGGAAATTAAATTTCCTTCTTTCCGCTTTTCCTTCGC
TTCACTTGACCTCCGCTTNGNCTCGGGGTCCGTTTCCGGGCTTG

Sequence 1083

TCGACCNCGCGTCCGTGGAGGGCCCATCTGCCAGAGCCTGGAGTCTGCGAAGGCCGGGAC
CCGGTTCCCCGGCCCACAGTGGGGGTGTGCAAACCCGAGAGAACTGGGAAGTGCCGTCAG
AAGCGATAACTGACGACGTCTAATGTCTATCTGACCGCAGTCGCTGAAACCTCTACAACT
TAGTTGACCGTAACTGCCAGAGCCCTGCCCTGAATTCCTGTCCTTACTCCCTCTTTAAGA
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GAATCAGCATCATGTTTGGCAGCTGAGTATTGGAGCCAGGAGCCTGCCATGAGGTTTTGA
GAACAGAGTGCTGTTTTAGAGCTGGCAGCAGCATCTCAGCCCAAGAGAAGGTTATATTCC
CAGAGGATGTCAGTCCCAAGGACCAAGTAGCTGCCATCAGTTTGGATTCTGAAAACTAAC
TGGCATCAAACTGGGTGTAGAAACATG

Sequence 1084

CGCGTCCGGACTGTCGCTCTAAAAGAATGAAGGAAATAATAAAGTGATAGACAGGGAAGG
ATAGAAAAGACTTAACAATATACATATGTTCCGTCTTTGCTGTTTTGGAGAATGATGGAT
AAGTANGTGTTTCCTGATTCTGAAGCATAGCTGAACAATTTAATTGTGGTTTACCATCTT
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CACAGTTCCCTCCATCGCTTTGGGAGAAAATCATTAATATGGCATACTGCAGATTGGAGG
GCAGGACCACTGAGGGTGTCATAGACATTAGCTCTATGGAATTCTGCTAGCAATTTCCAA
GTGACAGTGAGGAATTATGGATATATGTTTGAGGTCATTCAAGCTTCCTGAGTACCACAT
TCCCCAGCTACTTAGACACCGGGTTAAAATATTAAAGATGTCCTAGTTCAACAGCTTGAA
TTCCATTGATTGGAT

Sequence 1085

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TGAGATCTTATAGGCCTGTCTCATCAGGTTGGTGTCAGCCCAGCTAGGATTAGGCAGAAT
TGGGTGGGGGCTGTAGTGCATCTTTGGCACAGCATGTACCTGTCTGACTAATTCTCTGTC
TTTTCTTTCCTGTTGCAATTCATGGGTCTTAGCATCTTCTGAATGGTGTTTAGTAGGTCA
TCCTGTTGATTTCCTGCTAGGGAGTAGCATACTCTGGCTCTGTACCATTGGCCAAGGGAC
TTAAGGATAGGTGAAGGGCTGCAGTTTTGTTAAATGGAACAATATGAAGAGATGGCATTG
TAAAAAAACTTNTGNCAACTNAA

Sequence 1086

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GTTTTTAAAACTTATTCCAATTGCTAAATTGGTAGTTTTTCAGTCTTTATAAATACAGGA
TTAAAAATATATATACAGTTATATGAAATGTTTATTTTCTATGTGTGTGCATATAGTTCA
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AGATTTGATTCCTGCATAAGAAAGTAGAGCCCAAGTGCTGCAGAAATGGAGAAGAAAGCA
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AAAAGGGTGTTTCTCATGGAGAGGGGATGCTTTAGCAAAGGCTCAAACATTGGGGCATAT
TTAGGCAAGAGCCAAGAAACAGTTTGAAGGGGAACATCAGAGGAAATAGGCCAAATTAAT
AGTAAATN

Sequence 1087

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ATACATTGCATCTCTTATTGAAAGAGCCAACAGAGGCAATGAAAAATAAATGTACACATA
TGTGCACCCTTAATTCTTTATAATGAACCTTGAGAAATCAAGGCTTTAGAAAAATGCTGA
GAGACAAGAAGCTTCTGAGCAGCAACACTGGATGCAGGAAAAAAAATGGAGTAATAAGTG
TAAAGTTCTGAGGGGAAAAAAAATATCAGAACCTAGAATTCTAAATTTAACCAAACTGTC
ATTAAAGTAAATGAGAAAAGTAAATTCTTTTGAGAAACGCAGAGCCTAGAAAGGATTACT
AATCGGTAGGATCATCTTTTTTTGTTTGTTTGTTTGGNTTGGGGACAGACTCTCACCTCT
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TABLE 1
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GGGTGACAGGAGCAAGGACTTCATCTCAAAAAAAAAAAA
Sequence 1088
TCCCCCTGCCCCCCCAAGCTGAGGGAATAAACTCTGCCTGTCGGGTGCCCCACCAAGGGA
AATAAACATGGCCTAGCTGCCAAGTCATGCCTGTAGGGTGCTCTCTACTGGCAGTTTCTG
GGTGGTGCATACATCTAGTCTCCCTAGAAGAGCACAGTCCAGAATTGAGGAGGTACAGCA
GAAACAGACTGCAGGCAGAGAGAGGTCTCATAGAGCTTGGACAGGGCTAGGCACAGAAAG
AACAGGCAGCGTATCCAGAAGGGGGCAGGGAATGGGTGAAGAGGTTGTGCTCTAGGGCAG
AGCTGAGCTCTGATCTAGAAAGGACAGCAAAGATACCTGGAAGGCCTCCCGATTCTTGCG
TTGTTGGCGTCGCTCCCGAAGCCGGG
Sequence 1089
CGNTCCTTGGGTAAAAGCGTCCCAGAGACGGGAAGAAATATGGTATAAGCGAGAAGGCCT
CATAAATCTGGGCTGTTAAAAATCTAAGTTAAAAATATGTTTTAAGTCAGAAAAAAAAAA
AAAAAAAAAAA
Sequence 1090
CGCGCCTGGTAAAATTATATAAGCTTAAAAAAACAAAAACAAAAACACTTGCTTTGAAAA
GAGTCTCTCAGCAGCAATTTTGTCCTTGCCCCTACTTCCACAGTTCCTTTTCTTACCATT
TCACATCTGGATTACTACATTGGCCTCTTTGCTTAGACTCCCAATATTCATTTGCTTTCC
TTCACCCCATTTTATGGAGGACTGTCAGATCAATCTTTTAAAGATAAATTTTATAATGTT
ACTACTGTTGCCTATTGGATTAGAGCCCTAGGGGTGCTTTTTGTAGTCTCACTGACAGCT
GACATTAGTGATTTTTCACCCTCTTCTTATTGCTACCCTGTGTTGATGGCCAGTTTCCAG
GTGGGCACCTGCTCCACTTGCTTTCAT
Sequence 1091
GGGGTATGTGTGGTTCTTCCAGGAAAGTGCTGAAAATATCACCCAGGCCTCTGCGCCACG
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ATACTTTGTAAAATACCAACAACTTATTCACAAATATTCCAACTATCTACCAGCTCCAAT
GAGCTTGCTGAGGATGGGTATGACCCCAGTCTAAGGGGAAAGAATCTAAAACACAAGTAA
ACCTGTTTAAAGGCCAGATCTCCAGATGGAGATCCAAGCAGATGGCGCCTAAGGTTTGCC
CTTGAAAACTACCAAGGAAGCCACAGAGAGGGATCTTTGGACCTTCTGGAAAATGGTAAG
GCCCCAGGTAGATTATGGCTCCTCTGCCCTGGAGGCTGAGCCGCCCTCTGGTTACCTCAC
ATCTTCTGGTTTCTTCTGAGTGGGACTTGATCTCATTTCTGCATTCACAGCAAGGNGGAA
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GGTTTGAGATCCCNTGAGATGCCCNAGATTAATTCAATAGGGGGANGAAAGATTTGGCCC
AATTCAAAAGNGCTTAAAAAAAAATTTT
Sequence 1092
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TGAGGTCCAGAGTTCNAGACCAGTCTGGCCAACGTGGTGAA
Sequence 1093
CGCCCCGCGTCCGATAAAACTGGATTTGATTTCTTTTTATGAAANGTTTCATATGAATGT
AACTTGATTTTTTTACTATTATAATCTAGATAATATGATATAAGAGGGCTAAGAATTTTTA
AATTGAATCATATATATGATATAATTTGATCCTTCTTGTATCTTGAAGTTTTGTACTTGG
GATTTCTGGACTGATAAATGAATCATCACATTCTTCTGGTAAATATTTTCTTGGAGCTCT
GTGTCAACTTTGATCCTTTGTCTCCCAGGAAGGTGTGACCTCTCCTTTGCCTGCATACCT
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CCCAACTTTCTGCCACACTTAAATTACGTTCCTCCATTTCAGTTTTGTCTTTTCTGTCTA

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AAGTTCAGTCAAAGAGTATCAAAAAATTATGTTTCAGCTAGACTGGTGTAATGTATAAGT
TTTTGTATCTTGTATTAGAGGATTTCGTAGCTTTTATTAGAGG
Sequence 1094
GCCCCGCGTCCGATCCCTAGATGACATAACAGCCTTACAAAAGGACAGGGAGGAGTGTCT
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CATTAATCTCAAATAATTGATGCATTTTTCATACATTAGGGTCTCTGTCCATGTGTCTTC
CTGATATTGTTATAGAAATGGCTTCAGGCTGCTGGTAACAGATGCTGCGGAAAAAGAATG
CCTTAAACAAAGCCAGGCGCGGTGACTCACGCCTGTGATCCCAGCACTTTGGGAGGCTGG
GGTGGGAAGGATCACTTGAGCCTAGGAGTTAGACACCTACCCAGCCTGGGCAACACGGTG
AGACCTCGTCTCTACAAGAAACAAATAATTGGCTAGATGTCGTGGCGCACAAGCTTGTGG
TCTCGGCTACTTAGGGGGCTGAGGCGGGAGGATTATTTGAGCCTGGGGAGGTCAAAACTG
CGGTGGGCTGGGATTGCGCTACTGCACTCCGGGCTGGGAGACCGAGTANGACCCTGCCTT
AAAAAAAAAAAAAAAAAAAA
Sequence 1095
AGTCGCCCCGCGTCCGCTCATACCCAGTGAATCTTCAACAGAATCTCTTAAAGATCTCCA
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TTGCATGTGCTGTACTTAAAGCATCCCAGATAATTTTAGCTTATATTTTCATAGTGTTTA
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TGCTAGACTGTAATATGTTTTTTTTAATCCCAGTTGAAGTGGATGTGGGAAGGTATTAGA
AAGTAGAAGAAAGTATAGTCTAAAATAGAGAGGAAAGAAAGGAAGAGAAAAGTGGGATAT
TTCAAAACCATTTGCGCAGAGGTAGAATGAAATTCGCCAGAATGGGAATCTCCGTATTTC
TTTACAAT
Sequence 1096
GTNGCCCCGCGTCCGAGTNAACAGTGGTAGTNAAATTCAGGGTTGGTAAGTTTTTCCATA
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GCCACAGTAGTTTGAAAGCAGCCACAAACAGCCTTGGTGTGACTTTGTTCCAGTAAACTT
TCTTTATAGAATGGGAGAAAATATTTGCAAACAATGCATTCAACAATGGCCTGATGTCCA
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GGCAAAAGATATGAATAGTCATTTTTCAAAAGAAGACATACCGAATGGCCAACAAGCATA
TGAAAAAATACTCAACATCTCTAGGCTTTCAGAGGCATGCNAANTAAAACCNCCATTNGA
TATTATNTTACNNGANCCCNAAATGGGTTTTTTTTAAAAGGCCAAA
Sequence 1097
CCCCNCGCGTCCGTTNAAGTGTGCTTTGGAAAAGGGAAAAAGTCCTAAGTAGATATAAAA
CCCTAACTAAGGAAGAAAGCAGGTAGCAGTGGTGGTCCAAGAGACCGTGTAGTGGATGCA
AGGACCGCTCGTATTTTACACGCTATATTTCAGCAAAGGGTGGCCCATCTGGCAGGAAGA
TGGGGACATATGTCACATATAGAGCAGTTAAGGAACTAGGGAAAGTGGAAGACTCAGAAG
ACCTGTCTTTGACCTGGTATGTTCTATCTCTACAGAACCTAATATGGCTTATACATACTG
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TACATAAGGAGTAGGACCCCACCAGAATTCTGTCTTTGTAGGCTGCTGACTGCAGAAGAA
ACGGTGTAGCGGAGGCAGGGGGAAGAGGAGTCAGNANAGTACACTGGGAAGGAAGAAACG
GGTTCTTTTCTCTT
Sequence 1098
TCGCCCCTGGGCCCTCCTAACCAACCAGGGGAGGGGAGAAGGACCCAATTCTTTTCCTTT
GGTGCACGTAGCCTGGACCCGTTATGGACAGAGGCCAAAGGAAGATAACAGTGTGGTGTC
CAGAGATGAAACCAAGTGGTTGATGGGCAGTTCTTTGAGCAACCTTGTTTATGAGCCTAT
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TCAACACTCTAAATAAGCAATGGAGATGGTTCCATTCATTTTTTTGCAAGTATCATTTTT
ATAAACATAAATTTCCTGAGATTTTTGTTTTCATCTTAGCCTCTGTGGAGCTGCTTCGTG
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CTCTAACCTGAAGTACTGACAGACTTTCTGGAAGAAAAGGCTTGTAGGAGGAAACTTCAG

TABLE 1
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AATTCTATTAAATGGTGTAAATGATGAAATTATAGTTGATATATGCTAGAGCATCAGTGC
TGGGTATTTTAGAAGGGATGGA
Sequence 1099
CGGGCCTGTTCCTAGAGCCTCATTGGAGACATTGACAATGCCATGAGGACCTTCCTCAAC
TACTACACTGTATGGAAGCAGTTTGGGGGGCTCCCGGAATTCTACAACATTCCTCAGGGA
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TACCTCTACCGTGCCACGGGGGATCCCACCCTCCTAGAACTCGGAAGAGATGCTGTGGAA
TCCATTGAAAAAATCAGCAAGGTGGAGTGCGGATTTGCAACAAAAGATCGCTTTGGCTGC
TTTGTGAAGAATAGATTGAAAGGGTCAAAGGTGAGAGCCATCTCACATCCATGCAGGAAC
CAAGCAGGCAAGATATAAATATGAAAGTAGAAGAAAATAGTCTGGAAGAAAATCCC
Sequence 1100
CGCGTCCGGGAGTGCACCCCAAGATCTAACAGCTGTTTCAGAGCTGCTCATTTTAGAGTG
ATTGGTAGGGAGTTGGTGGCTCAGAGGTCCTAATCAGAATGTGTCCTGGGTTCTGAATGA
CTAGCAGACTATCATTAACCAAATAAATTATGGGATTTTGTCTTAATTATATACATATAC
ATATACACACACATACACATACACATACATGTGTATATATTCCCTAAAACTTAATAAAGC
TCAAATAATAAAATCAGATTTCTTAAGTATTCCAATTCCCTTTAAAATGTAAATCAGATT
TTATAATTCTTTTGTTCAAAACTGTCCATTGGCTCCCATTTCACTTAAATCAAAAGCTAG
TTTTTACAATAAGCTAAGATAGCAAACATTATTATCTATTTACTTATGAGTTACTTATGT
AACTCAAGCATCCAATAACACTGTAGGGTGCTCAATAAAATAGTTGCTGAATGGATAACT
TTC
Sequence 1101
TGTTTTACGACAGAGCTTAGTGCAGCCNGTTCTTGATGGCTGTGCAATGCTTTCCTTTTA
AGAGTGGAGTTAGCCTCGTCATAAAGCGTGTTTTTGAGTCTGTTCGAACGGGTCAACAAC
GAAGGGAAGTTTCAGGCAGATCTTGTATGCCTGGCCCTGGTGGCTGCTTTCATTTCCTTC
CAGTATCAGTGCTAAACAGGAATGAACATGTTCAAGCCCCGTCTCACCCACCTCTGGCAT
CTTCGCCCTAACTCTGCCCTAGAAGACCTTTCCTTCCGTATCGTCAAGAAAACTGAAGTT
GCTGTTTCACTCCTTCTCCCACCCAGAAACTTCGCTGCATCTTCCTGGATCCCTAGCTCC
TTGCACCCATGATCCTGTCTCCTTCCTCAGCCCGGCTTCTGGCTGAGCAGCCTGCACTTG
CTGTCTTCACTCCTACACGCTGCCCCCACTCCTACACGCTGCCCCTGCGTGCTTNTCACT
TCTCTACCCTTCC
Sequence 1102
GTCCGTATCCTATCTTCAAATTTTTTAAATATGTTCAAAATATCTGGAGGGTGAGAAGTT
ACCAAGTTTGTATGTTTTGTTTGACTCACCATCTTTATTTTCTGTATATGTAGTAGCTGG
CAATTGCATATATTTTCTTGATTAACATATTAGAGACTGCTTCCATCATCTTATGTAAAC
CTGGAAACAAGCTGAAACTAGTCTTTTCTGAAGAACCGTGTATCAGTGTTAGATGTGCAT
CCCGTTTTGTCATTCCCTCAGACTTTGAATACAGTCATTACTCTCTGGAAGAGAAATGTA
AGTATATTTTTTTGTTATCTGCAGTATGGTTTAACATGTATTAATAATACACATATGCAGA
CTCACTAAAGTATCCCCAGTAATTAGTAAATTCCAAAT
Sequence 1103
ANTTGGGTACCCCCGGCCNGGCCAGNTGCGCGCGGCGGGGCATGCTGCTCGTCCCCCCGC
GCCCCCGGCCCGGACACTTGGCGGGTGCCACGAGGACCCGCAGCAGCACGTGCGGTCCCC
CGGCGTTCCTGGGCGTGTTCGGCCGCCGTGCGCGGACCTNNGCGGGAGTTGGGGCNTGGG
GGGCGGCNGCCGTTGGTNCGGACAGNCNGGGTGCGCACTTGGGCCCCCNTGNCCATGGCN
GCAAAGGTGGACCTGAGCACCTCCACCGACTGGAAGGAGGCGAAATCCTTTCTGAAGGGC
CTGAGTGACAAGCAGCGGGAGGAACATTACTTNTGCAAGGACTTTNTCAGGCTGAANAAG
ATCCCNACATGGAAGGANATGGCGAAAGGGGTGGCTGT
Sequence 1104
TGCCNCGCGTCCGAGCATCTCAGGTAACAATTTGAGCATAACTTTAACCATAACTTATGA
TAGCATAATAACATTCATTAGTAATTCAGTAGCCGTATGTGCCAGGCTGTGTTAGGTGCT
TTATATATTGTTTAATTTTTAAAAACTTGTGGAGTGTACAGATTGGTAAGGTGACATTGT
ATCACAAAGCTAGTCTTTGAGTCCAAAGTTTTGTGGTTTTATGTTATGATATACTTTTAT

TABLE 1
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CATGGAATTGTCTTATTAAATGTTTTGCCAGTGGTTCTTAAAGTGTGTTTCTGACACCAG
TAGCATTGACTTCACTTAGAAACCTGTTAGAAATACAAATTATTTGGCCCCACCCAACAC
TTGAGTCACAAACTTTGCAGATGGGGCTCAATCTGTTTTAACAAGCGCTTCATGTAATTT
TGATGCAGGCCTAAGTTTTTGAGCCCTGCAGTATGCATTTCTATTTTTAAGCAAAGATCT
TGGTCTTTCTTTTTGGACATTGTAGAAATAACATGAACCTGGTTTTTGGTTTGGNNTTTG
NTTTGGTTTGGT

Sequence 1105
ACGCGTCCGCTCTGGTCAAGCAGGCGGTACTTCTCCTTGGATGTCTCAGCCACAGTGCCT
ATCAGGGTACTGAGGGAGAGCACACATGGCCCGAGGCCCTNGGAGCCCTCGGAGGCTGAG
TCAAAAGAGTCTCCCTCGAATTGGTGGGCCTTTAGAAGACTTGGCTTCTTCACTGGAGAG
CTATAAAGTAAACACCACACTGAGGGCCCTCGTCCCAGGAAGGCCTTCAGAGCATTTTCA
TTTCTGAACACGTCCCCTCATCTTTCAAGATTTTCTGGTCCTCTAAAGCTGAGAAACTAC
AAGCACTGAAATGAGATGAGTTTTGATAAGGATGGTAATGAAGCACAAAAGCGTTATTCA
CATTACTCACTGACTTTAATATAATTTTGAAATATTTCATACTTTTGAAAAACAAAATAG
CCTGGGCGACAAGANTGAGACTCCATCTCAAAGGTAAAANAAATTTAANCTGGGTGCCNG
CCGCTTGACTATGTCTAGAGAAAAAAACTTCCACA

Sequence 1106
GACCCANAGAAAAGGNGCCAAAGGGCATGTCAAGCAATTGAAGTTAAGCTCATGTTTTTA
AAGATCCGTTTATTGAGATGATTTTGAAATGCTCCTTTACCATTCATAATTTAAAAATAA
AGTTTAACAATGGTTTAAATTCANAATGGATTAAAATGGAGTTGGGGGTGGAAAGTAGAG
CCATTCTTAGTAAATATAAATAACTGAAAAGTTCTTCTGAGGAGACTATGTACCGAAGTT
ATCATTGCATCTTTCAGTATAGGCAGATCTCTCCCTCATATAACCGGATGTTTCTTGGCG
CTTGGAATATCAGATAAAGGTAAAGTTTAAGAAACTTCTCTAGCGGGGGATTTAGGGAAC
TTCTTAAAACCTAGAGTTAAAAGCTGTTGCGTGTTTGTTGTGTTATTTTAGACCAATCAA
CTTCATAGGCTAGACTAGTCTAGA

Sequence 1107
ACGCGTCCGAAAATTCACAGGGTGTGTTGGCACACGCCTGTAATGCCAGCTACTCAGGTG
GCTGAGGCATAAGAATTGCTTGAGCCTGGGAGGCAGAGATTGCACTGAGCCGAGATCGCG
CCACTATACTCCAGCCTGGGCAACANACATCCTGTCTCAAATAAATTAAATTACATTAAA
TGTTTAAGAAGAAGTCTAAATAAGATTCATATGCTGCCCTCCCTCAGATAATGAGGGAAC
CTGGGGTACTTCTGGGCTACTCTGGGGGACAAAGTATAACTATTCAAATGGCAAGTTGAA
TTAGTACAGTCTAGGAGCCTTGGAGATGGCTTCTTGAAAGAGGTAGAACCTGAAATTCTC
CTTCCTTGAGGGACGGNCAGGATTTGGCCAGATGGAAAGGCAAGTGGAAGGCTTTGCAGG
GACAAGCAATGTAANCAGANCCTAGAAATGG

Sequence 1108
TCGACCCCGCGTCCGGNGTAATTCTAGGGGAAATNATATTTCTGAACAACAATGTTGGTT
TGTGCAGGAAAATCACCAAAGAACATGACTAGAAAGTGTATAGCTACAGTTTCCCTCTTT
TAAATGGGAATAGCAAAACATATAAAGAATATTGATAGGCCGGGTGCGGTGGCTCACGCC
TGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCAGATCAAGAGGTCAGGAGATCGAGAC
CATCATGGCTAACACGGTGAAACCCCGTCTCTACTAAAAAATACAAAAAATTAGCCGGGC
GTGGTGGTGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCGTGA
ATCCGGGAGGTGGAGCTTGCAGTGAGCCGAGATCGCGCCACTGCACTCCAGCCTGGGTGA
CAGAGCGAGAGACTCTGCCTCAAACAAAAAAAAAAGNNAAAANAAAAAA

Sequence 1109
CCGTCTCTGGCTTGGCCAGGTTTAAATTAATAAAAATGAAGATGAAAATAAGTTGTCAGA
TTTAGGATGTATTTTAGAAACCCAACTGATAATTTGCCAACTAATTGGATGCAGAGAGTA
AGAGGGAGACTCAAGAACACCTCTAAGATTTTTACCCTGATCAATGGGATAGGTGAAAGT
ACATTAATGGAGATTGAGAATCCTGGTGGAGGTACAAGTTTAGGGGTACTGAAGAGTGCT
TTTGGACATGTGAATTCTTAGAAGCCTACTAGATTCTCCAAATGGAGACATAAAACATAA
TTGAATACAAAAGTCAGGAGTTCAGGAGAGGGCTGAGCTAAAGATACAAATTTGATAGAC
ATGAGCATTTAAAAAAAACTGCATGAAAATACTAAAGATAGGCTGTCCTGCCTATGGAAT

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AGCCATTCTTTGATCCCTTTACTTTCTTAATAAACTTGGTTTCACCTTACTCTATGGACT
TCCCCCAAATTCTTTCTTGTGTGAGGTCCAAAAACTCTCTGTTGGGGTCTAGATCAGACC
CTTTTCAAGTACATCTTNCTGATGAACCACAAANGGATTATACTAAAGAGACCCCCCACC

Sequence 1110
CCGGNAATTTGCTTATTCTAATTGAGACACANTGGTGGGGAGTGGGGGTCGGGGACTACA
CAGGTGCATTTTCTGAACATTTATAAAATGAAAAAGATGGAGGCTTGGCTAGAATGGTTA
ATCCCCTTTTCATTCCTCTAATTCTATGACAATTTTTTTAAAAAACCAAACACAACCAAA
ATAAGAGTGGACAGTTGAGAATTACCTTTAGGTTCCCATGACCCTGAAGACTGTATTTGG
CCTTGGATCCATTAAAAAAAAAAAAAAAAAAAAAA
Sequence 1111
CCCACGCGTCCGCGGCCATTTCTGTATCCCCCTGCCTGGGTTTGCTGCCCTTTATGCTCC
TACCTCACCAGGTACAAGGAACATGAAGATGGCTATATGCGGCTGCAGCTGGTTCGCTAC
GAGAGTGTAGAGCTGACACAGCAACTGCTGCGGCAACCACAAGAGGGATCGGGCCTGGGA
ACGTCGCTGAACGAGAGCAGCCTGCAGGGCATTATTCTAGAAACAGTGCCAGGGGAGCCA
GGACGTAAGGAAGAGGAAGAGGAGGGCAAGGGTAGCGAAGGGACAGCCCTCTCAGCCTCT
CAGGACAACCCCAGTTCTGTCATCCACGTGGTGAATCAGACCAATGCCCAAGGCCAGCAA
GAGATTGTCTACTATGTGCTGTCTGAAGCCCCAGGGGAGCCTCCCCCAGCCCCTGAGCCA
CCTTCAGGGGGCATCATGGAAAAGCTTCAAGGAATAGCTGAGGAGCCAGAGATCCAGATG
GTTTGAAGGCCGCAGAGCCAGACCATTTCTTCCCAGGTCTGAAAGTTTGAGCCAGGCAAG
TGGCAGTGCCCCTAGTGGGCAGCCGTTGCCAATGGATGCC
Sequence 1112
CCCCCGCGTCCGTAATTTTAAAGAACCTTGTTATTAGAAAATCTCAGCCTAATACAATCT
GAAGTTAAGAGTTTTAGCAGCATTGTTTTTCTAAGTAGATTTAGCTATAGATTTTCTTCT
GGCCAAACAAGGAAGAGTATATGCCCTTGTAAATGAGTCTTGTTTTGTTATTTAAATAGT
CAGTCAAAACGTAGAAATCAGTATACGTAAAATAAAATGCATGAGACTATTAAATCTTTT
CATATACTCTACAAATAAAATGAAATCTGTGTGTGGTCCTGGTTGACTGGGCATCTAAAG
GGAATCAGAAAAGAGATTGTGAAAAGTTATATATATATCCTCTTCCTTATTTTAGTTTTG
CTTTTTCCTATTTTCCATAATTAAGTGCCGTTTACAAAGTGGCATCAAAAAATTGAAGCA
GGCCAGGCATGGTGGCTCATGCCTGTGGTCCCAGCAGTTTGGGAGGCTGAGGGCAGGTGG
ATCACTTGAGATCGGGGGTTCGTGACCAGCCTGGCCAACATGGTGAAAGCCCATCTCTAC
TGGGAATATAAAAATTAGCCCGGCGTGGTGGCATGTGCCTGTGGTCGCAGCTACTTGGGA
GGCTAAGACAGGAGAATTGCTTGGGCCCTGGGAGGGGGGAGTTCANNNGNCCTGGANCGN
CCCCTGNNCTCNANCCCTGGCAACCANTGNNGACACCNNCTTAAAAAAAAAA
Sequence 1113
TCGACCCCGCGTCCGGTTTTTTGTCCCAGCAGTGGCATTTAAATTACTGTACTTTAAGAC
ATGGAATTGCTGGAGGCTTGGAAACTTGAGTGCAATTTCCCTAGTACGACCTCCAAGGAG
AATAGAGCAAAACAGTGGTAGGAAAAACTCTCAAAATTTTACCCAATTGTATGTTTTCTA
CATTGTCAGTATCTAGTTTTATATAGTTAATATGTACTTCTAAAATTTCTGACAGTGNTT
GGTGTATAAAACAGACCAAGCTCAAGATGTAAAGAAGATTGAGAAATTCCACANTCAACT
AATGCGACTTATGGTAGCCAAGGAAGCCCGCAATGTTACCATGGAAACTGAGTGAATGGT
TTGAAATGAAGACTTTGTCGTGTACTTAGGAAGTAAATATCTTTTGAATTAGAGAAAGTG
TTGGGACAGAAAGTACTTTATGTAACTAAGTGGGCTGTTCAGAAGCTTAGAGGTCATTTT
TTGTAATTTTNTTTTTAATTACTTTAGAAGAGCTAGGGATGCAAATGTTTTCAATTTGGA
AAGCCTTTATTTACTTTTTGGGAAA
Sequence 1114
TCGACCCCGCGTCCGATTCCTTCTTCATATATTATGTCAGAAGAGTTTGAGAAGAAATGG
TATTAATTCTTCTTTAAATGTTAGGTTGACTCACCAGTTAATGCAGCTATTTGGTCATAA
ATGTTTCTTTGTTAATCACTTTCGATTACTAATTCAATCTGCTAGGTTATAGGTCTATTC
AGATTTTCTCTTTCTTCTTGAGCCACTTTGGTAGTTTGTGTCTTTCTAGTGATTCGTCCA
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TTTTGTATTTCTGTAAAGTTGGTAGTAATGGCTCTGCTTTCATTTATTATTTTAATAATT
AGTCTTCCATCTTTTGCTCAGTCAATATAGTGAAAGGCTTGATCTTTCAAATAATCTATG
TTTATTCATTCTACTGCTCTCCAAACTTCTATTTTATTGATTTATGCTCTAATTATGCTC
TCTATTATTTCTTTCATACTGCTAGCTTTGGATTAGGCTTATTTTGNCTTCTTC
Sequence 1115
GCCCCGCGTCCGGGATGACTAATGAAAGCAATNAGCTTGAACATTTAGAAAAAATTCATA
TATGATCTAAATTTTTATATTATCATTTCTGTGCCTTCTAATTCCTGCATCCTGTTCAAA
ACATCTTTCCAGACATTAACTTACACATTGTATAAAACCGACCAAAATGATTTCCTAAAG
TTCATGCAAAAAAAAAAAAAAACAACCTAATTTTCTGTTAATATAAAAGAAACTTCAGTT
TACTGACCGTGAAACAGACTATGTACTGACATCCAGGGTAAAGTAAAAGACTTTTAAATA
TTGGTCATTAAAGGACAGGAGCTAAGCTAGCAAAGCAAAACATCTTTAGCACTTTGCAGA
TCTCAAGCAGTTAACCAGGCTCTGATTCCCTTCCACTGTTTTATGAATTAATTCCAGTTC
TTTTCATGTATCTTTGAACCTAAGATTATGAAGTAATTTCCCTATTAGGGACTAGAATGA
CTTCAGTTTTTTCATTTGATAAAAATCAGAACTGCTACCTTTCCCTTTTTTAATGATGCA
AAATGTAGATGAGTGCATTAAGGGTTGTAAGGATCTTTATCATTTTATGNCATTCATTGA
AAATTGAAATGTTCATTCTTTTTAATGGTT
Sequence 1116
CNGCTTTCGTCTCTTCCTTTNAAGTTGATACCCTTCTTTTTCTTGTCATTTTGCATTGCC
TGGGACCTCCAGAATAATGTTTCATGAAGTAGCATGTATCCATATCTGGTTCTTGACTTT
TTCATCATTATAATTGTTTTCTATGGGTTACTTATCAGTTTAAGAATGCTTAATTCCTAG
ATGAACTAAGAGTGTTTATTACATGTTGAGATTTATGGTATGCTTTTTCTTCCTCAAGAT
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TTGAACAACCCTTGATTTTTTTGGATAAACTCTATTTGGTCATTATGCATCATTCTATAA
ACCCTGCTGAATTTTTCATTTGCCAACATCTTATTTCAGATTCTTTTAATCTGTGTCCAA
CAATGAGATTTGTTTTCTTTTGCAATTTGTTTTGAATTTTTGGTATCAGAGCTATACTAA
CCTTATAATGGAAAATACATATTTCTCAAACTTTTACACTGATATATTCATAGTATTTTT
TTATAATTTGAAAAATCTTGTCAGTATCTGTATTAAGGCCTNCATTTCAGTTCTGCTATT
TCATATTGCCTTAAGGTGGCTATTTGGCTCTTTAAGGACCCCGATTTTGATTTTGTCATT
TTTAAAATAAACCCCATTTATGCTATAAAAAAAAA
Sequence 1117
GCCTTTTATGGTGATGGAATATGTCTCAGGAGGAGAGCTATTTGATTATATCTGTAAGAA
TGGAAGGGTAAGCTGTTCTGCTTTAATTCTGTATGTATTTTGTNNCTNGNCCTTTATCCT
TTACTAGCATCAAAATGTCAGCAACCAATTTTAAGAGGTCTATTTAATAACCAGTTCCCT
TAGTCATATATTTGTTTAGAATCATAAACTATGTAGAACTAGAAAGGATCTTAAAGATTA
TCTCCTTAGCCTGTTTATACAGATGTGGATACTGAGCCTCGCGGCTTATATGATTGCTCA
CAGTAACGTGATTTATTAATGACGGAATTGGCTTGAGCCCCCAGAACTCATAATCCTCAG
ACTTATGCTTCCAGGGTATACAAATACTTTGAATATGTATCTTAATGTAATTAATCGTAC
CAAATATATTATTATTACT
Sequence 1118
GCGTCCGTTGTCATCTATTTACTTTACATATGTCATAAACCTAACACTACATGGTCATTT
TTGTTTAAACAGTCAATTACCTTTTAAAGGGATTTGAATAATAAGTCAAAATCTAATACA
TTAACTGTGTAGTTAGCATTTCTGGTGCTCTTCTTTCTTTTCTGTAGATCCATACTTCCA
TCTGGCATTATTTTCCTACTGCCAGAAGGACTTCCTTTAACATTTCTTGTAGTGTAGATC
TGCTGGTGATGAATTCTTTCAGCTTTTGTAATTCTTTTGTCTTTGAAAGGTATTTTCCCT
GAGTATAGGTTAATAGCTTTTTCCTTTCAGTACTCTAAAGATGTTGCTCCAGGCCAGGCG
CGGTGGCTCACTCCTGTAATCCCAGCACTTTGGGAGTCTTGAGGTGGGCAGAACACTTGA
GGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCCCGTGCTTCTAAACATAT
TAAAGAAAAAAAAGA
Sequence 1119
NCGTGACATGCTGGCTGCTAGTNAGCTCCCCCATGATTGTCAGCTTCCGAGCCCTCACTA
GAAGCAGATACCACCCCACCACCATGTTTCCTTTAAAGCCTGCAGAACTGNGAACCAATT

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AAAACTCTTTTCTTTATAAATTATCCAGCCTCAAGTATTTATAGCAACACAATAATGGCC
TAACACAACCTACAACTCTCTATATGTATTTGTGTGTATTTAAAACATGCAGGAAATAAC
ACAGAATCCAAGGCACCCAAAACTCATTAAAAAATGGAATCAAGAATTCATATGCCATTA
TGAAATTAGCCAGTCCTAAAATCTGACCTCTCTGCATTTTCACATTATTCTCCTCTCTCT
ATCCCTGCCTTCCTCCCTCCCTTCCTCCAACTGTCAGAATTGTCCTGTAATCAAACATGT
TCACATCACAGCTTTTCATTTTCTATTTCCAATCAATTGACCAGTCTAGCCAAGTAGCAT
CCTGGATCCCGTATTACATATTCCTAGGACAGGAAGCCAGATTTTT

Sequence 1120

AGCTCTTTAGCAGGAGACAATTCTTAAACTTAAATTAAACTGAAAAAGCCACAGAAAAAA
GGGTTTGACACCCTAAAGCCAGTGTCCAAATGAACGCTACGGTTGNCCTCATAGGTGTGT
TATGAATGTTTACCCTGACCTCCTAGAAGAAAAGGAAAAAGAAAGGAAAGAGAGAGGGAG
AAGGTGAGGGAAGGGGGGAAGAAAAGAAAGGAGAGAAAAGAAGACAGAGAAAAAACAGGG
AGGGAGGAAGCTGGGGAAGGAAAAAGACCATTTGCTGACTCCGTTGTTTTATTTCCCAGA
ATGATTCAATACCTCAAGAAGATTTCACTCCAGAAGTGTACAGAGTTTTCCTCAACAACC
TTTGCCCTCGACCTGAAATTGATAACATCTTTTCAGAATTGTAAGAGTACACATTTTAAG
CCATATCTTTTTCAGCTTGCATTGATTCTCAGGTGGCTAGAGCAGGACTTGGAGTGGTAA
TTGGAGATGGAAGAACATCATACACTGTGTCTAAA

Sequence 1121

CGGCCGAGGTACTATAATGGTCCCCATCTTAATTTGAAAGCGTTTGAGAATCTTTTAGGA
CANGCACTGACGAAGGCACTNGAAGACTCCAGCTTCCTGAAAAGAAGTGGCAGGGACAGT
GGCTACGGTGACATCTGGTGTCCTGAACGTGGAGAATTTCTTGCTCCTCCAAGGCACCAT
AAGAGAGAAGATTCCTTTGAAAGCTTGGACTCTTTGGGCTCGAGGTCATTGACAAGCTGC
TCCTCTGATATCACGTTGAGAGGGGGGCGTGAAGGTTTTGAAAGTGACACAGATTCGGAA
TTTACATTCAAGATGCAGGATTATAATAAAGATGATATGTCCGTATCGAAGGATTTCGGC
TGTTGAGCCAAAGACTGCGTTACCCTTCAATCGTTTTTTACCCAACAAAAGTAGACAGCC
ATCCTATGTACCTGCCCG

Sequence 1122

CCCTTTCGAGCGGCCNTNCGGGCTTNTACGCGGGGGCAGCGGGAAGCTCGCAGCAGCTGG
GGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGATACACCCAACTGGGAGAT
GAGGAAACAGCAACCCAGAGAGGAGAACTAACCCACACAGGATCATTTCGCGAAGGAGCA
AGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAAACTTACTGCAGCTTGAAGGAGCCA
ACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGCTCTACTATCAATACCAAATC
ATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCGATCTATGTTTAACACCATCTTACTA
ACCATTATTGCTATGGTGGTATACACTGCCTATGTCTTTATTCCAATCCACATTCGCCTG
GCTTGGGAATTTTTCTCAAAAATAT

Sequence 1123

CCCTTTCGAGCGGCCGTNCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACC
ACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACA
ACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCA
TGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGA
GAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAG
AATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAG
TTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCAT
ACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGT
TCTGGGAGAGGGACCAGATTGGGG

Sequence 1124

CCCTTATTTTNGGCNTTNGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTAT
AGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCA
AAAAATTGCCAAAATGCNACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTT
GGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGG
TTTGGAGTCTGGAAGCCTNATCCCTTCANCATCAAGCTGGAATGGGGAATGAAGAATGGA

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NATGTGGTGCCCACTAGGCTACTGNTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTA
TTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTA
Sequence 1125
CCCTTANCGTGNTCNCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCAC
TNTATAGAGGGTGGGAAAATAAACCANAAATCAAGGGAGAAAGAAAAGATGAAAGACAAA
CTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCAT
GTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAG
AGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCGTCAAGCTGGAATGGGGAATGAAGA
ATAGAGATGTGGTGCCCACTANGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGT
TGGTATTCAAAATATGTAATGGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCAT
ACCACTGGACAGGGTTATTGTTAACACCTGAATTG
Sequence 1126
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTNTTTTTTTTNNGGACTTGCG
ACAGTTCCACCTTTTACTCTCATTGGTAAAATCTCCTTTTAATTATTAAAAATATTGATA
AATTTATTAAATTAAGTCTTTNATTCTTTTGTAATCAGAAGAGGACATTAATGTTGCGTG
TCTTGACTGTCTTTTTTGCTTTGTAGATTTATTTTGTGCTAAATGAGAACGATATGCATG
TTTGTGNTTGATTTTTCCAGAAGCAGTTACTTTAATTCTTTTTTTAAGNGCTGATTTTGT
TTTTGCTTTAGGCATTAGTTTCTTCTTCCTTTATAGNTTTTTCAAAATCAATTAATTCCT
TTATTTGTTTTGAAAGAAGTAAATTTGGGGTAATTTTTTCTTATCACGCCCAATATGAAG
AGTTAAAAAATTACCAACTGATTGCATTTCTTTACTTAATTTTGCAAATCGATTTTACTT
CATCAAAAAAAAGAATTTAANAATTAATTTACCTTGTTCAGGTCTTGGAATTTNCACGCC
CTCTAAGACGAAGAGCCACTTTTACTCTGCGTATCTAATAAAAATTCTTTGGCTTTTTTT
GCTT
Sequence 1127
CCCTTAGCGTGGTCGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCAC
TTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAA
CTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCAT
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Sequence 1128
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TATTTCTCCTCTCCTGTTTTCACAAACCAAGAAATCCCCAGGTAGGCCAATCCCAGAGGT
GCCATTTAGCAGTATGCAGCAGCCCAGTTTCAGCATAACAAAACATGCCTTGGTAGTGGC
TCTCTCATGCAAATAAAAGAAAGCTTAAGAAATTCTTGTTGTAGGTGGATTAGGCAAGGC
TGCCATTCAGCTGGTATAAGCTAAAAGTAAAAAATCAAAACGCTCAAGAAAACGGACACA
ATTTTGGAATGATTAAAGATGTCTTTATAAAGTTTTTTTCAAGACTTCATTCTAAATACA
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TCTCAAAATTTAAAGATCAATTTCCCCAGAAGGTGTNCAATGCATCATAAAATGGCCCTT
TTTTGAGGATGGGAGAGGAAGGGTTGGGCAGGATGGAATATTAAATTGTACATGGATAAA
CATGCCAAGACTGTTATCCAATCTAGATAATTTATATACATTTTGATGACTTAAGGAAAA
CAAAGCAATCATTTGGTGACAGCCTAAAAAGCNTGACCNTATTTAACATACTTAGGAACT
TTTTTNGG
Sequence 1129
CGTTCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAA
AAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCA
AAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTC
AGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTG
GAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCC

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CACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATG
TAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTA
TGTTAACACCTGAATTGCTGGGTCTTGAAGAGAGCCCAAGGAGTTCTGGGAAGAGGGACC
AGATTGGGGGGTAGGGTCACGGGCTTGGGTGATAGAATTATTTCTCGAATGACTTTCTTG
AGTGCCAATTTGAACTGTAACATTTGCTTANTCACCTTTAGNGGAGTAATCTCCTGGGCT
TGGTTCTATATTTATATAAAAG

Sequence 1130

CGGGCAGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTA
CCAACTAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATT
ACTCATCATGCGATAAATAACTATATCCGGTATTAGCTATTGGTTCCAATAAGTTATCCC
CAGTCTTAAANGTAGGTTAAGTACCTCNGGCCGGCCACCGGGNTGGAGCTCCAAATTNGC
CCTATAAGTGAGGTCGGATTTACGCCCCGCCTCACTTGGCCCGNNGTTTTACAACCGTCC
GTNGACTNGGGAAAACCCCTGGGCGTTTACCCCAANCTTTAATCCGCCTTGGCAGCACAA
TCCCCCTTTTCGNCCAGGTTGGCGTNAATAANCGAAAAAGGCCCGGAACCGAATCGGCCC
NTTTCCNAACANGTTNGCGCCAGTNCTGGAATNGGCNAAATGGGGACCCCNCCCCTTGTT
AACCGGGGNGCATTTAAACCNCCGGCCGGNTGNTGGTTGGNTTACCCCCCAANNGGTGAC
CCGNNTTCAACTTTGGCAAGGGCCCCTAANGGCCGNTTTCTTTTGNTTTTTTTC

Sequence 1131

CGANGTACGCGGGGCTTTCCAAACAGCATAAGAAGTGTTTGAGCCNTNAGTATACTGAAG
GAAGGGCTCCCTCGAGTTCTGGTGTGAAGAGATAAATCACCAGAAAAATGATGGCATCAA
AACAAAAAAAAGAACTCATTGTGAATAAGAAAAAACATCTAGGCCCAGTCGAAGAATATCA
GCTGCTGCTTCAGGTGACCTATAGAGATTCCAAGGAGAAAAGAGATTTGAGAAATTTTCT
GAAGCTCTTGAAGCCTCCATTATTATGGTCACATGGGCTAATTAGAATTATCAAGAGCAA
AGGCCACCACAGACTGCAACANGCCTGAATGGAGTCCTGCAGTGTACCTGCCCGGGCGGC
CGCTCTTAGAACTAGTGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTGAT
ACCCGGCNGACCTNGAGGGGGGGGCCCCGGTACCCAACCTTTTGT

Sequence 1132

AGCTCACTCAAAGGGCGGTAATACGGGTTATCCACAAGAATCAAGGGGATAACCGCAGGA
AAGAAACATGTGAGCAAAAGGGCCAAGCAAAAGGGCCAGGAACCGTAAAAAGGGCCCGCG
TTGCTGGCNGTTTTTCCATAGGGCTCCCGCCCCCCTGGACCGAAGCATCACAAAAAATCG
ACGCTCAAAGTTCAGAGGTGGGCGAAAACCCCGGACAAGG

Sequence 1133

CCCGGGAACAAAAGCNGCAACCGNGCCCCCCCTCCAGGTCNACGGNNTCGANAAGCNCGA
AAACCGAATTTTTGNAGNTTTNGGGGACCCACTANTTNGNGAGCGGGGGCCGANNNAGNG
CGGC

Sequence 1134

CCCCCCCNCGAGGNCGACGGNANCGANAAGCAGATNNTNAATTTTTGCAGCCCGGGGGAT
CCNGGAGNGNGAGAGCCCACCGNGGGGGNGCGCCAACACCCCCGANAGAGAGNCGAANNA
CGCGCGCNCACNGGCCGNCGANAAACAACGGCGAGACNGNGAAAACCCGGGCGANACCCA
ACANAAGCGCCAGGCAGCACANACCCCAANCGCCAGCNGGCGAAACANNnnnnnnnnnnn
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CAGCCGCCCNAGCGCCCGCNCCAAGCGCNNANCNNCCCANACCAACANCGCCACGNACGG
CCGGGCAANCCCCGGCAAGCACAAAAAGCGGGGGGGCNCCCTGGAAGGGGNNCNCGAANA
AAAGGCAAGACGGGNACCNCNGAANCCCCAAAAAACC

Sequence 1135

GGGAGTNNGGGAGCGGCCGAGGGCCAAANGANCCGCGAAGACAAGGCCATCCACCACTNN
ANAGAGGGGGNAAAAACAAACCAGAAACCAAGGGAGAAAGAAAAGANGAAAGACAAACNG
CAAAAAANNGCCAAAACGCGACNANCAAAAAANGGAGCAGANGCNGAGGCANNGCAAGNC
ACGGCANACCGNCAGGAGCCGAANGAAAAAAAGCAACAAGCAAGANGAAGACNCTGAGAG
GGGCNCGGAGGCCNGGAAACCNCATCCCTNCAACAACAAAGCNGGAANGGGGGAAANGAA

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GAANCAGAAGAAGGGGGCGCCCACNAGGCTACNGCNGAAAGGGAACCGAAAAACCCCNCA
CCAANNAGGNATNCAAAAAANNGGAAACGGACCGGGNCANGGCAAAAAAAANGGAACCAA
GACACCGGGCCCANACCACNGGACCANGGGGNAANGGAAACACCCCGGAAATGGCAGGGN
CCCCGAANAGAACCCCAAGGGAGCCCAGGGAAGAGGGACCCAAGATGGGGGGGGAAAGGC
CCACCGGGCCNGGGGNGAAANAACAAAGCCACCGAGGGCCAACCGNAAGNGGCCAANNGA
ACCCGGAACNANAAGGCNNAANCCACCCTGAAGNGGGAGGAAAACCCCCAGGGCNGGGGG
CCAAANANNAAAAAAAAGCNGCCCAAAACCCCCAA

Sequence 1136

NTTTAATTTTTTGCAGCCCGGGGGANCCAGGGGNAGGGNGAGCCCACCGCGGGGGAGCGC
CAANCGCCCNACAGCGAGNCGNAANACGCGCNGCCCACNGGCCCGCCGNANAAACAACGN
CGAGACGGGGAAAACCCCGGCGNCACCCAACNGAAACNGCCANGCAGCACAANCCNCAAN
CGCCAGCGGGCGGAANAGCGAAGAGGCCNCGCACCGAACGCCCANCCCAACAGNGGCGCA
ACAGAAAGGGCGAAA

Sequence 1137

TTTGCANTTTNGGGGACCCACNAANTGGNGAGCGGGCGANGAACCACACNNACGGCCCGA
GNCCNNGNCNACNGGNCNAGAGNGANAANCACAGGGACACCGANCANCCCTNNCGGCANG
GACCCACAGCAGCAGGNGGANNGCCATACCGAGANGAAGGAAGACNCAGACANCGCCAAC
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Sequence 1138

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CTCCCAAGGAGCTGGCATCACAGGACAGGCACGGAGACTCACGCCTGAAATCCTAATACT
TTGGGAGGCCGCGGCAGGAGGATCACCTGAACCCAGGAGTTTGAGACCAGCCTGCCAACA
TGATGTTGTTATTCATGAGGACCAATGGGTTGGCGAGACAGTACTACAATCAACATTTAG
CAGTCAGTTATTAAATCTTGGGAGTTATTCATCTATTCAGCCTGAAGAATATTCCAGTGT
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Sequence 1139

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Sequence 1140

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TABLE 1
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AAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAA
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Sequence 1141
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Sequence 1142
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Sequence 1143
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Sequence 1144
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GANNAAGAAAATTTTTTTTTTAG
Sequence 1145
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AGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATT
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TABLE 1

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ATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGC

Sequence 1146

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GCAGCTCCCACATGTCTTCCAGAGGATGGAAGCTGAAAACCTAGCTTCAGTGATTGATGC
CAGGTTTAACTTTTTTGTGAACAAGATTTTGCCACAGTATCGTGATGCAGTCATGTCTCA
CACGCTCATCTATATCCCCTCCTACTTTGACTTCGTGCGTCTTCGAAATTACTTCAAGAA
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Sequence 1147

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Sequence 1148

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AGTG

Sequence 1149

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Sequence 1150

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Sequence 1151

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TABLE 1
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Sequence 1152
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TGGAGCCCTCGTGTTCAGCTATAACCTGGGCAGTGGTGTGGCATCCATCATGGTGAATGG
CTCCTTCAACGATGGTCGGTGGCACCGAGTTAAGGCCGTTAGGGATGGCCAGTCAGGAAA
GATAACCGTGGATGACTACGGAGCCAGAACAGGCAAATCCCCAGGCATGATGCGGCAGCT
TAACATCAATGGAGCTCTGTATGTGGGTGGAAT
Sequence 1153
GCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGAACTAAATTTTTTAAACTTTA
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ATAATGTTTCAGATTGCAAGGTAATATGTAATAGTAGTGTTTGTAAGATACTCTTGTCTA
ATATTAACTAGTAGTATTTTGATTTGTACAATGTCACCCTCCCAGCAACAAGAAGAACAA
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TACATGCTAGTGGCGATAATTATTCATGCCGTAATTCAAGAGTATATGTTGGATAAAATT
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Sequence 1154
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Sequence 1155
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Sequence 1156
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CTGATGTTTTCT
Sequence 1157
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TTTAACACCATCTTACTAACCATTATTGCTATGGGTGGGTATACACTGCCTATGTCTTTA
TTCCAATCCACATTCGCCTGGGCTTGGGAATTTTTCTTCAAAAATATGTGGATATCACAG
GNCCTCGGCCCGCTCTAGAACTAGTGGGATCCCCCCGGGCTTGCAGGGNAT
Sequence 1158
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGCAGTGGGA
AGCTCGCAGCAGCTGGGGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGATA
CACCCAACTGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAACTAACCCACACAGGATC
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CAGCTTGAAGGAGCCAACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGCTCTA
CTATCAATACCAAATCATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCCGATCTATGT
TTAACACCATCTTACTAACCATTATTGCT
Sequence 1159
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGCAGTGGGAA
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ACCCAACTGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAACTAACCCACACAGGATCA
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Sequence 1160
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Sequence 1162
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Sequence 1163
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TABLE 1
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Sequence 1164
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Sequence 1165
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ATTAA
Sequence 1166
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Sequence 1167
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Sequence 1168
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CCNGGGGGGGAAANNANTTTTANTNNNNTCCCCCCCCCCCNGGGGGGGGGG
Sequence 1169
CCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA
CTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAA
ACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCA
TGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGA

TABLE 1

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GAGGGGTTTGGAGTCTGGAAGCCTCATCNCTTCAGCATCAACTGGAATGG

Sequence 1170

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TGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCANATGAAGACTCTGA
GAGGGGTTTG

Sequence 1171

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TCCTTCAGGAGCTGAATGAAAAAATGCAACA

Sequence 1172

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Sequence 1173

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CAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCA
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CTGCCCG

Sequence 1174

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TCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTGCC
CAACTGGGTTTCCCAAGCTATGTGAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGGG
CAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCA
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CCTGCCCG

Sequence 1175

AGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCCGTGCTNNAGGTGTTCACAGCTGCT
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CAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCA
TTACACCACTCAGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCAG
TGCACAGCCTGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAACATGTCC
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GGCTCTGTCATCACGCCCCTGTGGATCGTCACTGNTGCACACTGTGTTTATGACTTGTAC
CTGCCCG
Sequence 1176
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Sequence 1177
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Sequence 1178
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Sequence 1179
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ACCACTGGACAGG
Sequence 1180
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TCCAATCCCACATGGATAGGTTGATGACTCAAATGGCCCAAGCCAAG

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Sequence 1181
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TGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTG
AGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATG
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CTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGA
CACTGGCCATACCACTGGACAGGGTTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGA
GCCCAAGGAGTTCTGGGAGAGGGACCCAGATTGGGGGGGTA
Sequence 1182
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GACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAA
GAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCA
GATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAA
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TGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTG
GACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAA
Sequence 1183
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Sequence 1184
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CTCAAGGGGCA
Sequence 1185
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Sequence 1186
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CTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGA
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CCCAAGGGAGTTCTGGGAGAGGGACCAGATTGGGGGGTA

Sequence 1187

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CTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAA
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Sequence 1188

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CAACTTGCCCAGGTATTCTCCCCGGT

Sequence 1189

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Sequence 1190

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Sequence 1191

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Sequence 1192
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TCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCC
GATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGG
AATGGGGAATGAAGAATAGAGA
Sequence 1193
TGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAG
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GAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGGAAAAATGCAACAAGCAGAT
GAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAAT
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CCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAG
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Sequence 1194
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GTACCT
Sequence 1196
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AACCCAGAAAACCATAAGCTTTAGATTTGGG
Sequence 1199
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Sequence 1200
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Sequence 1201
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Sequence 1202
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Sequence 1203
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GTAGACACTGGTGGAGTTTTTTTCCAGACTTAA
Sequence 1204
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GATACTTCCAATCTGCTGGTCTTGCTGAACTCTTTGGATCATGGATATCATAAGTTCGAC
AAAATATTTTTTTTTGTAGAAGCACAAATGTGAAGNGTCACTCGTTCTGAGACTTCCTCCT
CTGTGAAATTCCACAATCTCTTTCTATTTATAGACTTTTCCACAGCAAACATTAGTCTAC
GCAGAGCATTTTGAAAATCATTTGCCAGTTCTAAAGTAGTAATAATAAATACTCCAAGAA
CTAAAAGTCCCCCTGGTAGCATTCTGGATACCTGGCAGGCATGTTCTGTGGCCCATTC
Sequence 1205

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GAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAAT

Sequence 1206

AGCGTGGTCGCGGCCGAGGTACATAAAACATTATTCCTTCCTTGGCCTAAAAACTCATCG
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GTCACACTTGAAGCAGTCCGGAGAAATATCAGCCCTACCCCAGTAATCCCCAGAAGGAAC
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Sequence 1207

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GCCTGATGTCATTAAGCACCATCCAAAAAGTCTGCTTCATAATCTATTTTCAAGACTTGG
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Sequence 1208

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AAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCANATTCTGAGGCTTTG
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AGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGG

Sequence 1209

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Sequence 1210

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GGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCNGATGAAGACTCTGAGAGGGG
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GATGTGGNGCCCACTAG

Sequence 1211

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GGNGTTTTNAAGGGNGGGGGGGGGGGCCCCCCCGGGCCCCCCAAAAGGGGTNAACCCCCC
TGGGGGGNAANAGGGGGGGAAANNTTTNNNAAACCGGNNAAAAAACCCCCCCAGGGGGGG

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CCCCCCGGGGGGGGAAAAAANCCCCCNGGGGGGGAAACCCCCCCGG
Sequence 1212
GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGT
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GCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAA
CAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCA
AGCTGGAATGGGGAATGAAGAATAGAAGATGGTGGTGCCCACTAGGCTACTGCTGAAAGG
GAGCTGAAATTCCTCCCCAAGGTTGGGTATTCAAAATATGTAATGACTGGGTATGGCAAA
AGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCT
GGGTCTTGAGAGAGCCCAAAGGAGTTCTGGGAGAGGGACCAGATGGGGGGGTA
Sequence 1213
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AAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTG
GCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGT
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ATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTAT
TCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTG
G
Sequence 1214
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GGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAA
GATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAAT
Sequence 1215
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GAATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGA
AATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAA
Sequence 1216
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CTTGAGAGAGCCNAAGGAGTTCTGGGAGAGGGACCAGATGGGGG
Sequence 1217
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GAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAA
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GCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGT
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CAGGGTTATGTTA

Sequence 1218

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GGCTTGCAGGAATCAGGATGTACTGTTCCTGTTGGCCGAGTGGAGACTGGNGTTCTCAAA
CCCGGNATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTCGAA
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AATGTGTCTGTCAAGGATGTTCGTCGGGGCAACNTTGCTGGTGACAGCAAAAATGACCCA
CCAATGGAAGCAGCTGGCTTCACTGCTCAGGGTGATTATC

Sequence 1219

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ANCCCTGAATTNCCNNNACCCAATTAAATTTTTNCNANCCCCTTTAAAAAATTTTNCTNG
GGNTGGGGCCCCCCCNAAAANTTAGGGNANAAAAAATATNAAANCCCCNNAAAATATTTT
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Sequence 1220

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TGTTCCCCAGAGTCAACGAGGCCATGCTGATAATAGTTTCTGGAAGGGATCTCTGGAATT
GGTCTGACCCAATTAACACACGGCCTCTGATGGGAATAGATGTATTTTGGGGACACATTT
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CA

Sequence 1221

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Sequence 1222

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Sequence 1223

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TABLE 1
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TGAANGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAA
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AAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCT
TCAGCATCAAGCTGGGAATGGGGG

Sequence 1224

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA
CTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAA
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AATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAG
TTGGTATTCAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATAC
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Sequence 1225

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GCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGT
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Sequence 1226

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Sequence 1227

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GCCACAGTATAATTAGTAGGCTGAGAAGTTTGGGCAGTGTAAGTTTGTGCAGGATAATTG
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AGCTTCTGGAAAGCAGCTTCACCTGTCCTTTTCCCCAAGAAGCTGGGCAGCTCCCGGGTC
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CTGCCCG

Sequence 1228

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TABLE 1
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Sequence 1229
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GGACT
Sequence 1230
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ANAAAAAAAAAAAANTCNCCCNNTTNTTTTTTTTTTTAAAA
Sequence 1231
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CCCGAGTACCTGCCCG
Sequence 1232
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Sequence 1233
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Sequence 1234
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TABLE 1

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CTTTGAGAGAGCCCCAAGGGGGTTTTGGGAGAGGGGACCCANAATTGGGGGGTAGGTC

Sequence 1235

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CAAACTGCAAAAAATTGCCAAAATGCCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTT
TGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACT
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Sequence 1236

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GGAACCTCTGTTCAANATGCTTTNATTGNAACTCTGGTTTTGAAGACCGGGNNNGGNAAA
GCAANNAAAAACGTNGGGAAACCCTNNGATGGACNTAAAGGGGCNNTGGNNGCCAAAGGG
ACCTTGGGGGAAAANGGTCCACTTTGAATANANAAGCATGGGGNGGGGNGNATTTTTCCC
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NTT

Sequence 1237

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CGCCGAGGCTTTGGC

Sequence 1238

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T

Sequence 1239

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Sequence 1240

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Sequence 1241
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AAAGATAAATTTAAACCTGAAAAGTAGGAAGCAGAAGAAAAAAGACAAGCTAGGAAACAA
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GGCTGCAG
Sequence 1242
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CAAG
Sequence 1243
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Sequence 1244
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Sequence 1245
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AAATGACCCCACCAA
Sequence 1246
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Sequence 1247
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TABLE 1
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GGACTAAGACACTGGCCATACCACTGGACAGGGTTTATTGTTAACACCTGAATTGCTGGG
GTC
Sequence 1248
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NCCCTGGTCACACTTGAAGCAGTCCGGAGAAATATNAGCCCTACCCCAGTAATCCCCAGA
AGGAACTTACACTTTTTTTTAATCTTTTCCTACAACTNCATATTTTATAAATAAAAAGAC
ANAAATGTCAGGCCTGTGAGCTGAAGCTTAGCCAT
Sequence 1249
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TCATTTCGTGAAGGAGCAAGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAAACTTAC
TGCAGCTTGAAGGAGCCAACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGCTC
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GTTTAACGCCATCTTACTAACCATTATTGCTATGGTGGTATACACTGCCTATGTNTTTAT
TCCAATCCACATTCGCCTGGCTTGGGAATTTT
Sequence 1250
GGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAAGACAAGGC
CATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGAT
GAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGA
GGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGA
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GGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCC
TCCACCAAGTTGGTATTCAAAATNTGTAATGACTGGTATTGGCAAAA
Sequence 1251
CTNCTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAA
GACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAA
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CTGGAATGGGGAATGAAGAATGGAAGAATNGTGGTGCCCACTAGGCTACTGCTGAAAGGG
GAGCTTGAAATTCCTCCACCAAGGTTTGGTATTC
Sequence 1252
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GAAGGACAAGTTTGTGGCCCTGACCATAGATGATATCTGCTTCTCGCTCAACGACAACTC
ACCAAACATCAGATATTCTGAGAACGCCGTGAGGATTGAGCCAAACTCCGTGAGTCTGGA
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CAGGGAAGAAAA
Sequence 1253
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GGAATGGGGAATGAAGAANGGNAGATTGGTGGTGCCCACTAGGCTACTGCTGAAAGGGAG

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CTGAAATTCCTCCCCCAAGGTTGGTATTCAAAAATATTGTAATGAACTGGGTATTGGCAA

Sequence 1254
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TGGCTGAAGGCCCAGGAGGGAAGGAAATATAAGAACCAACAATAAAAATAGCAATAGCAA
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GCTTCCATTGCTCACGATGCTCACGCTGGGCAGCCGCAACTCTACTTTGCAGAACCTCAC
CAACTTGCCCAGGTATTCTCCCCGGTCTTGA
Sequence 1255
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TATGGACGGAAAAC
Sequence 1256
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CAAACTGCAAAAAATTGCCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTT
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Sequence 1257
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AGATGAAAGACAAACTGCAAAAAATTGCCCAAAATGCGACTTTCTAAAAATGGAGCAGAT
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GAATGGGGAATGAAGAATAGAAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTG
AAA
Sequence 1258
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GCAAAAAGATTGGGACTAAAG
Sequence 1259
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ACAACAATAGCATATGAGACCGCTCTCCGTAAAGATGCCAGATTGGATGCAAATGGACTG
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GCCTCTTAAAATGGGACGCATTTGCCTCGCGCCTCTGGGGTGTCTGCAGCTCAGCNTTGG
TGCCCCACACGGGACACCCGACTTTT
Sequence 1260

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AAATACTGGAGTACTTTTTTTTTTTTTTTTTTTTTTGGCTTGATGAGTAGGTGAGTTTATT
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CTCCCAATGCTAAACTGCTTTCATGCTAATTTTCTGACTGTTTACTTACCCGGGGTAAGA
GCGATGGGGACTGTTTTCATTGG

Sequence 1261

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AACAAGCAGATGAAGACTCTGAGAGGGGTTTTGGAGTCTGGAAGCCTCATCCCTTCAGCA
TCAAGCTGGAATGGGGAATGAAGAATAGGAGATGTGGTGCCCACTAGGCTACTGCTGAAA
GGGAGCTGAAATTCCTCCACCAAGGTTGGGTATTCAAAATATGTAATGACTGGTATGGCA
AAAGATTGGG

Sequence 1262

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AGAAAACTCCTTGGATGATTTTGAAGACAAAGTATTTTACCGGACTGAGTTTCAGAATCG
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GAGGCAGCCCTGGAATGCTTACGTAAAGCTGAAGAGTTAATCCAGCANGAGCATGCTGAC
AAGGCAGAAATCAAAAGTCTGGTCACCTGGGGAAA

Sequence 1263

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CGGAGGCGGCTCAGTGCCTCGCGAGGTCCAGGAGAATCCTGGTAGCAGAACTGCCTAAAA
AGCTGCCTGCAGAGCTCCTGCTTAAGGAGTTCACTTCTCTGTAAGCAAGTGTCCTGCCCA
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TGGGCTGCAGCTTTCTTTGGTTCTGTAGCCATCTCTCGGACAGGGCTGATTCCGATCGGA
CACTTCCGGTGGAAGGACTGAGCGGCGCTACACTTCAAGAATTCCGTCCACAGGGACTTG
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TCTTCGGGCGCAGACTTTTCGCCAAAGTCCTGAAGATCTCAGGGCTTGAAGGAGGGGGCA
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AAATGACGTTGGCCCGGGCGCGGGGGCTTACGCCTGCAAGTCCACACTTTGGGAGGCCGA
ACNGGCNGATCACGAAGGTCAGGAGATCGANGACTATCTGGGTTACGCGGNGACACCCTG
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Sequence 1264

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TAGGTCCTATCGGGTAAAGGGATCAGCAGATGTGAAGTCAAGAGTCTCCTGTAAGATTTG
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CCNTAANCCAATNATGCTGATANAAATNCTACANTGCACAAGGATAGGNTCCCACANAAC
ANAAGNCTTANCCAAACCCCAAATACTAACAAT

Sequence 1265

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CTTCCATTGCTCACGATGCTCACGCTGGGCAGCCGCAACTCTACTTTGCAGAACCTCACC
AACTTGCCCAGGTATTCTCCCCGGTCTTGAAGAAATGGCTCTCCACCTGAAAAGTTGATC
TTCTCCATACCAGCTTCCTTAAGCAAAAGCAATCCTCTCTTTGCTTCCTCAAGGGGCAGC
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GAAGTGATAGTTGACGCTGGTTGGGGTGGT

Sequence 1266

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GGACTTTGTTTCCACTTTCGGCAAAGAGGGTATGACTCAAACTACTGGTCTCTCCCAGTG
GGATAAATCCAATGGGAATCTTACTGAAGGTAGCCTCATCTGTTCGTCGAAGAACACCAA
GTAACAACCTNCTGCAGTGTCCCATCTCCTTCCTGNAACAATGGATCACATTCCGGNGTT
TTCCATCAGTTNCAAGGAGGTTTNTTNGGCTTGGGCCCTTAANAAATCTGNGCTTAAACA
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Sequence 1267

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Sequence 1268

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CACCTGAATT

Sequence 1269

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ATAACTCAGCCACTGGCCTCAATAGGACCACAGTCACGATGATCACAGTCTCTGGAAGTG
CTCCTGTCCTCTCAAGCTGTGGCCACCGTCGGCATCACGATTG

Sequence 1270

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CTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGC
CTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGGAGATGTGGTGCCCACT
AGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAAT
GACTGGTATGGCAAAAGA

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Sequence 1271
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CTGTATTTTTAAAATTTTCCTGTTACTCATTGATACATAGTACTTCCTTGATGTTGTTGG
AGTCCGTGAGAAACATGGCGACTCGATCAATGCCCATGCCCCAGCCAGCTGTGGGGGGCA
GCCCATATTCCAGGGCAGTACTCAAAGGTGATATTTGCTTTTTTCAATGCTTCAGGGGAA
AAATCCTTTTCTTTA
Sequence 1272
TAAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATGAAGTGTGAANGACA
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AGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATT
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ATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGA
ATGGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAA
TTCCTCCACCAAGGTTGGTATTCAAAATATGTAATGACTGGGTATGGCAAAAGATT
Sequence 1273
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GGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGG
AAGCCTCATCCCTTCAGCATCAAGCTGGAAT
Sequence 1274
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Sequence 1275
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Sequence 1276
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Sequence 1277
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TCCAATTANGGTNTTAAAAGGG
Sequence 1278
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CTCCTTGGTTTCCTTTAATTTCCCTTTAAATTTTCCTTCAATAATTGGTAAATNATTTTT
TTTTTCNTTTTTAAGNGGACC
Sequence 1279
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Sequence 1280
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ATTCCTTCAGGAGCTGA
Sequence 1281
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Sequence 1282
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AAAAATGCACCCTAGACCCGAAACTTACTAGACTCATTATAAAATTTTCTTTAAGGTGTC
CACGCAGTCCCTGGTCACACTTGAAGCAGTCCGGAGAAATATCAGCCCTACCCCAGTAAT
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Sequence 1283
GGTGGCGGCGCCCGNCAGGTACCAAATGAAGTGTGAAGACCNGGCCATCCACCACTTTAT
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GCATTCCTTCAGGAGCTGAATGAAAAAATGCAACANGCAGATGAAGACTCTGAGAGGGGT
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ATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTAT
TCAAAATATGNAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTG
GACAGGNTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCNAGGAGTTCTGGGA
NAGGNACCACATTGGGG
Sequence 1284
CGCGGTGGCGGCCGCCCGGGCAGGTACCCCGGGAGAGCCCGCTTCCCCCTCCTCCCTGTG
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CTTGGAGAAAACTATAGTTGGCAAATTCCCATTAACCACAATGACTTCAAAATTTTAAAA
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Sequence 1285
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Sequence 1286
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ATGCACACAAATTTCTTAAACAGCCACCTAAAGAGAAAATGCACAGATGTATGGTGGAAA
CTGTATCTAACACTGAAACTACTACAGGACTCCATCAATGAGTCCAACTTTTAGTGATAA
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CAAAGGTCAAAATTTTAAAAGATGGCTGAACAGTAATTGCAGCATCTAATAAAAACGCAG
CTCATTACCGAGCAAACGGTTTTAATTAAAAATTCAAAAGGAATAATCCTGACAGGAGAA
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TTAACACC
Sequence 1287
CCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCA
CTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAA
ACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGNGCAGATTCTGAGGCTTTGCAT
GTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAG
AGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGA
ATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGT
TGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATA
CCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGTT
CTGGGAGAGGGACCAGATTGGGGGGTAGGT
Sequence 1288
CCGGGCAGGTACAAGATAGTCATCTCAGTAAAAGGTCTATTATCTAACTTGCCAAACTTG

TABLE 1

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TTCACTGAGAGCCCTAAGGAACTAAAACTGCCATAATGCCGTGCACAGCTTGAAAAGCAA
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CCAGGAGGGAAGGAAATATAAGAACCAACAATAAAAATAGCAATAGCAATAAGAAGAATG
CCATCCCATGGAGCACACCATAATTCTGGAACCACCTCTCCCGGATCAGGCTTCCATTGC
TCACGATGCTCACGCTGGGCAGCCGCAACTCTACTTTGCAGAACCTCACCAACTTGTCCA
GGTATTCTCCCCGGTCTTGAAGAAATGGCTCTCCACCTGAAAAGTTGATCTTTCTCCATA
CCAGCTTCCTTAAAGCAAAAGCAATCCTCTCTTTGCTTNCTCAAGGGGCAAGCACAAAGG
GATGTTTTTGGCTGTGTGGAAACAGAAAGCCCGCATTTGTAGTTTGCACTGGCCAGTGAA
GTGATAGTTGACCCTGGTTGGGGTGGGGG

Sequence 1289

CCGGGCAGGTACCAAAATTGTAAGAAGAAGCTTGGGAAGCTGCCACCTCAGTATGCCCTG
GAGCTCCTGACGGTCTATGCTTGGGAGCGAGGGAGCATGAAAACACATTTCAACACAGCC
CAGGGATTTCGGACGGCTTGGAATTAGTCATAAACTACCAGCAACTCTGCATCTACTGGA
CAAAGTATTATGACTTTAAAAACCCCATTATTGAAAAGTACACAGGAGGCAAAGTGTTTC
ACATCATAGACTTCACTTCCAACTCCTTGGAATGTTCATTTCTTTGGCTTACAGGAGAGA
CTAGACAGGAAGGCCAGGCAATGCTTAGGCAACTAAAATGAGGTTGGGGGTAATGCTAAC
GTCACCCTCACAGGGATGGCCACGGGGACTGTTATTCGCAAGCTGGTTTTCTAGGCCTGT
TAGCTGGAAGCATGGTGAGCACCATTTCTGGACGCTCAGGCCGTGTCGGGCTTNAAGTCA
TCTTNCACCACACAGGTACCTTNGGGCCGGNTCTAGNAACTAGTGGGATCCCCCCGGGCT
GGCAGGAAATTCGAATATCAAAGCTTTATCGATACCCGTCCGACCTTCGANGGGG

Sequence 1290

AGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGTTGTAAAAATA
AACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATG
CGACTTTCTAAAAATGGACAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGC
TGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCC
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GCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAATGA
CTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAA
CACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATTG

Sequence 1291

AGGTCATAAAACATTATTCCTTCCTTGGCCTAAAAACTCATCGCCACCTACATTAAAGCT
AATATGCCTGATTACTGTTTTTAGAGAACTTATTTTATTAGGGCAGTTCCAAGCTCAAAA
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TTCTACAACTTCATATTTTATAAATAAAAAGACAAAAATGTCGGGCCTGTGAGCTGAAGC
TTAGCCATTGTAACCCCTGTGACCTGCACATATCCGTCCAGGTGGCCTGCAGGAGCCAAG
AAGTCTGGAGCAGNCGAAAAACCACAAAGAAGTGAAACAGCCAGGTTTCTGNCTTAACTA
ATTAACCCAC

Sequence 1292

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TTCCTTGGCCTAAAAACTCATCGCCACCTACATTAAAGCTAATATGCCTGATTACTGTTT
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TAGCTACATAAAAATGCACCCTAGACCCGAAACTTACTAGACTCATTATAAAATTTTNTT
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AAAACCACAAAGAAGTGAAACAGCCAGTTTCTGCCTTAACTAATTAACCCACCTTACGAC
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Sequence 1293

TABLE 1
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CCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTA
AAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCC
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AAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCC
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AATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTAT
GTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGA
TTGGGGGGTAG

Sequence 1294

CGAGGTACCGCTGTGTCCGGGTGGGTGGTCAGAATGCCGTGCTCCAGGTGTTCACAGCTG
CTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCCTGTG
CCCAACTGGGTTTCCCAAGCTATGTAGTTCAGATAACCTCAGAGTGAGCTCGCTGGAGGG
GCAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGC
ATTACACCACTCAGTATATGTGAGGGAGGGATGTGCCTCTGGCCACGTGGTTACCTTGCA
GTGCACAGCCTGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAACATGTC
CTTGCTCTCGCAAGTGGCCCTGGCA

Sequence 1295

CGAGGTACCTGTGAAGACAGCTACACCTGGTTTCCTCCCTCATGCCTTGATCCCCAGAAC
TGCTACCTTCACACGGCTGGAGCACTCCCAAGCTGTGAATGTCATCTCAACAACCTCAGC
CAGAGTGTCAATTTCTGTGAGAGAACAAAGATTTGGGGCACTTTCAAAATTAATGAAAGG
TTTACAAATGACCTTTTGAATTCATCTTCTGCTATATACTCCAAATATGCAAATGGAATT
GAAATTCAACTTAAAAAAGCATATGAAAGAATTCAAGGTTTTGAGTCGGTTCAGGTCACC
CAATTTCGAAATGGAAGCATCGTTGCTGGGTATGAAGTTGTTGGCTCCAGCAGTGCATCT
GAACTGCTGTCAGCCATTGAACATGTTGCCGAGAAGGCTAAGACAGCCCTTCACAAGCTG
TTTCCATTAGAAAGACGGCTCTTTCAGAGTGTTCGGAAAAGCCCAGTGTAATGACATTGT
CTTTGGATTTGGGT

Sequence 1296

CGAGGTACAGGAGCAACCTTCTTTCCACCATTACTGGGAATTCCACCACTATTTGCTCCC
CCAGCCCAGAATCATGATTCTTCTTCATTCCATTCAAGGACTTCGGGAAAAAGTAATCGA
AATGGTCCCGAAAAAGGTGTAAATGGGTCAATAAATGGAAGTAATACATCATCTGTAATT
GGTATCAACACATCTGTACTTTTTTTTTTTTTTTTTTTTTATCTAAAAGCAACATAATTA
TTTTTCTTGCGATTTTTTCAAGAACTCTTTTTAATTGTCTAACACCTGATTCTAGTGTAT
AGCTTCTGATT

Sequence 1297

CGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGT
GTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATT
GCCAAAATGCGACTTTCTAAAAATGANAGATTCTGAGGCTTTGCATGTCTTGGCATTCCT
TCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTC
TGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTG
CCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATA
TGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCA

Sequence 1298

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ACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACA
AACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGC
ATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTG
AGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAA
GAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAA
GTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCA
TACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAG

TABLE 1
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TTCTGGGGAGAGGGACCAGATT
Sequence 1299
CGCCCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGT
GTAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATT
GCCAAAATGCGACTTTTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCC
TTCAGGAGCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGT
CTGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGT
GCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAAT
ATGTAATGACTGGTATGGCAAAAGATT
Sequence 1300
CGNCCGCCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTG
TAAAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTG
CCAAAATGCGACTTTCTAAAAATGGACAGATTCTGAGGCTTTGCATGTCTTGGCATTCCT
TCAGGAGCTGAATGAAAAAATGCAACAAGCANATGAAGACTCTGAGAGGGGTTTGGAGTC
TGGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATANAAGATGTGNT
GCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGG
Sequence 1301
CNAATTGGAGCTCCCCGCGGNGGCGGCCGAGGTACAGTATGGCTTAAAAGGCTCTGCCTT
AGATTCTAGAATCCAGAACATTTTCTCCAAAGACAATCAGGGTATGGGGGAGAAGTTAGT
TCCAGAGAAGAGAGCGAGTCCAGGGTAGAAGGGATTCTTCTCTCCTGAGGGTCTATGGTC
TCCCATTTTTTAAAGCAGCAGNGGTATCTATCCCACTCATGGCCTAGAGGTTGCACAGAG
CTGTCTGGCACCCGCTTCTTTGGCTTTTCTCTCCTGACACCCAGCAATGCTTACTCAGAG
CGTTGAAGGCGGCCAGCACCTCGAAAGAGATTCTCTGATTTTTTGTGAACACCTGGATGG
TGAACCCATCAAGGGACTTCTGGATCTCGAAATTGTTTTTCAACCCTTCGTGAACAGACA
GAACTTCAGCTTATCCC
Sequence 1302
CCGGGCAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTA
AAAATAAACCAGAAATCAAGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCC
AAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCCTT
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GGAAGCCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGC
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GTAATGACT
Sequence 1303
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AAAACCAATATTTTGTTTTGTTCTGTTGTCTACAATAAGGAGAATTCAGATGATAAACTT
ACAACCAATCATGGCCAAGTCCACTTGAGGAATTGTCTCTGTAGATTTATCTGTAGACTC
CCTAATA
Sequence 1304
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GCTGAATGAAAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAG
CCTCATCCCTTCAGCATCAAGCTGGAATGGGGAATGAAGAATAGAGATGTGGTGCCCACT
AGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAGTTGGTATTCAAAATATGTAAT
GACTGGTATG
Sequence 1305
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CAAAAGTGCATTCAACCTTACCAAAAAAAAAAAAAAAAAAAGTnnnnnnnnnnnnnnn
nnNAGCCCGGGGAGNCATAAAAGTGTAAAAGCCTGGGGGTGCCTTAATGAAGT
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nnnCTGTCGGTGGCCAGCTGCATTAATGAAATCGGGCCAAACGCCGCGGGGGGAAAGAAGG
CCGGTTTGCGTTATTNGGGCCGCTCTTCCCGCTTTCCTCGCTCACTGGACTCCGCTGNCG
CTCGGGTCNTTACCNGCTTGCGGGCCGAAGCCGGGTAATTCAAGCTTCAAC
Sequence 1306
AGGTGTTAGTTACCACTTCATTACTGGAGGGCACTGTCACAAACTTCTGACTATCCAGAC
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CTAGCTCTCTATGGCTCTACCTCTCTGCTTGAAGCTCCCTGCACTGCACTCCCATTACTC
TGACTGGGGATAGGACCACTGCTGACAGGGCCCCACCTCAACTTCTTTCATTGCCCTCTT
CCAGGAAATCCCACCCTGGGATACTTCAAAGACCTCATATGCTACAAAGATCAAGGCCAC
CTAATGAGTGCTCTAGAGATCAGCACCAAAGATGCTTGCCAGAGTCTTCTCTATATGTCC
TCCCTCCTGTATCAAATAAGTCACCAAGTATAGCTGACTATCTCCATAACATCTCTCCAG
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GCTGCCAGCCCCTCACCCCCAGTCGGTCTCCAACATACTTTTTTTTTTTTTTTTCGGACN
CGTGGGTCGAAAGCCTTGACCCTGCC
Sequence 1307
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CCAAGAGCCACTATAAAAAGATCCTTAATGAGCAAAATATATCCCCTATTATTTTCCTAC
AAGTTGCTTTTTACTTGAGTAGGAACCCTTGATTGATTTTTGCGGACGCGTGGGTCGAAG
CTTGACCT
Sequence 1308
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Sequence 1309
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGT
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TTTTNTNAAAANTAAAAAAAACTTGTTGGGCTTANGGNCCACCTNGGTTTNCANCCTTAT
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CCCGGGAANTTTCAANNNNTTTNNGCCCNGGGGNTAANAAANAAGGNGNAAATCCTNTTT
TTTTTCANAAAAAAAAAAAA
Sequence 1310
GGGGGGGCATTTCACGCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGG
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TABLE 1

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CTGTCTATGCATAGAAAACTGCTTTATGCCTAAGATAATTACTGGGATTTAAGAAAGTGA
GAAAAAAGAATAGGTGGGATTGAGAAATTAGGTAAAAACAGAAGAGGCCAACTAAACCCA
AGTGCTGCCCTTCAAGGGCTCTAGTAACCGGACGCGTGGGTCGAAGCTTGACCT
Sequence 1311
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAATCCCGTCTT
ACAGAAGAGAAAACTGAGATTTAGCAACATAAAAGTATTTCCCGTAAGTAAACAGTAGAG
CCAAGATCTTGACCTACGCCATCTGATACCTGAGCCCATGCTATAAAAGAGGAGCATTAG
AAATATTTGAAAGATAGAAATGAGAACTAGTCAATATTTATTTTGCTTAGCACTGTATTC
AGTATTATGGCATCTTAAAGTAGTTAAGACTCAATATTTCATCAAAAAAGTTTAAAATCT
AATCAGAGAAT
Sequence 1312
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TGTAATTCCACTAAGAAAAGTCAATAGATAATTCCAATAATGACTTCACTCCTGAGAATT
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AACATTTTCCCTTCTTGATTTTAACATCTACAAAATAAAAAGTATGTTAATATCAAAAAA
AAAAAAAAAAAAAAAAAAAAGGN
Sequence 1313
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TTTTGTCTTCTTAACTTCAAGTCTTGGATGAGAGAAGAGGTGTTTTAAATTTCTCTGTTA
TTTCTAGGGTTCTATTCATTTT
Sequence 1314
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GTGTGATGGATGATGACAATGAAGTAAGGGACCGAGCCACCTTCTACCTAAATGTCCTGG
AGCAGAAGCAGAAGGCCCTTAATGCAGGCTATATCCTAAATGGTCTGACTGTGTCCATCC
CTGGTCTGGAGAGGGCTCTGCAGCAAGTACCT
Sequence 1315
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GACTTTCAAACTATAAAATTTAGAAAATTATAATAAATTATGAAATAGAGGCCCTTTCAT
GTCAAAAAGTCATGAAAG
Sequence 1316
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCG
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TAAAAGCAGCTTACATGAATAAAGAAAGGGCAGCTCAGATTGCTGAAAAGGATGCCATTA
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GAATAATAAAGGAAGAGAATGCTGCAGAAGACAAACGAAACAAAGCGAAAGCACAGTACC
TGCCCG

Sequence 1317
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGCGTGCATAG
GGACTCTTGCCTTAAGGAGTGTAAACTTGATCTGCATTTGCTGATTTGTTTTTAAAAAAA
CAAGAAATGCATGTTTCAAATAAAATTCTCTATTGTAAATAAAATTTTTTCTTTGGATCT
TGGCAAAAAAAAAAAAAAAAAAAAGTGCGGCCGGCCGCCCGGGCAGGTACACTTGTTGAT
AAGAGTTTTCTGAAAACAGTCTATCAAATATAAAGAATGGTTTCTATCCAAGAATCAGCA
GTGAGGGAAGAAATACTAAACACCTGTCAAGAAATCAGTTATTCATTTTAAAAAATAACA
GAACCAGTGCTGCTCTCTGTCATAAAAAAGAACATGTAAAATTTATTTTTATAGGCTTTG
GTAACATTATATTCCCCACAGAGGCCTTCAATCCTACTTAAAGATA

Sequence 1318
AGGTCAAGCTTCGACCCACGCGTCCGGTTACTAGAGCCCTTGAAGGGCAGCACTTGGGTT
TAGTTGGCCTCTTCTGTTTTTACCTAATTTCTCAATCCCACCTATTCTTTTTTCTCACTT
TCTTAAATCCCAGTAATTATCTTAGGCATAAAGCAGTTTTCTATGCATAGACAGTTCATT
TAGATTGGTAACATGGGCTAGGTAAAAAAAAAAAAAAAAAAAAAAGTGCGACCTGCCCGG
GCGGCCGGCCGCTCGTGATCTAGATCCCCGACCT

Sequence 1319
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGTTT
GGGTGGAATTATAATATTTTAGATAAGATTTAAGAGGATTCTAATTCTAGCTACTTGATA
GGAATGCGAATGATGATAAGGCTTTTAGAGTTAGATAAGAGAGAGGGCTAGCACCCTGAT
ATTCTGTAATTGAAACAGAGTTTCAAGTCCTTTGGTCAAGTATTACCCTTATTCCTTCAG
GAATAGTAGATATTTTAAGATTACAGATAGGTTATCTTATCTAATTTACCTACCTATTGT
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TGCTTCTGACCTTATGCTCAAGAACTCCCCTAACTCTGGCCAGAGCTCAGCTTTGGCAAC
TCTGACCGTTGAGCAGCTCTCATCCCGGGTTTCCTTTACGT

Sequence 1320
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTT
AAGCTGCTCCTTGAGGATAAGGGCTAACTCACAGGCAGTGCACCAAGAGCCACTATAAAA
AGATCCTTAATGAGCAAAATATATCCCCTATTATTTTCCTACAAGTTGCTTTTTACTTGA
GTAGGAACCCTTGATTGATTTTTGCGGACNCGTGGGTCGAANCTTGACCT

Sequence 1321
GGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGT
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TAAGGAAATGTAGTTAGGATTAATTTTATTGTCCTAATTAGAACTCACATTTTGGTTAAA
TCCTCAATTTCATTAAAAAAAAAAAAAAAAAAAAGTGCGGCCGGCCGCCCGGGCAGGTACA
ATTTAATTTTTCTGCTTGCCCAAGAAACAAAGCTTNTGTGGAACCATGGAAGAAGATGAA
AATGAGACTGGCAAAGAACAAATGCTGAATCTGAAGAAGATTTGGGCAAATAATCTGCAT
ACTTTTAATTGGGAATAAGATGGAAAATATGAATGCTAAATCAAATTTTTTA

Sequence 1322
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ATTAAAGAGCTGTTGTGGGACTTCCAAAGCAGAAGACAGTAGGCTTTCAGAAATTTGATA
AAAATAGCACTTTGCATTTCTTGAATCTTGAGCTAAATGGAAATTAATACTAAACATTCT
CCACTGGTAAAATAGAGAATAAGGATATTAACAGTAAAAGAAAAGAAGAAGAAAAGGAAA
TGTGCTTCCACAGATTTAGAAACATAAGTAACAATCTAAGTTAAGGCTTTGGCACCTGCC
CGGGCGGCCGGCCGCCCGGGCAGGTTCAAAGACTACCAAAGTATGTATTTGATTTTCACA
TGCAAACAACTTAAA

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Sequence 1323
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTC
CGCAGAAACCTTGCCATCATTCTTACTGCTGGTTTGCATCTCATTTATGGTGNNTCTGGG
ATTTCTTCTCATGAACAGAAAGATTCAGTGGCTGTTATATGCCTTGTCAATTTAATGTAT
TGCCCTATCCTCTTTTTGATCAAAGATAGAGACTAAGACTGGGAATTATGACAGAAAAAG
TCATATTTTTCTTTAAATGATTTTGAAATGTTAAAATAGGCCAATATGAGTCAAAGTGCA
AATTTTTTGGTGACCTGCCCGGGGCGGCCGGCCGCCCGGGCAGGTACTAAGCATTTCAGT
TCCAGGAGAATAAAAGAAATTCCTATTTGAAATGAATTCCTCATTTGGAGGAAAAAAAGC
ATGCATTCTAGCACAACAAGATGAAATTATGGAATCAAAAGTGGCTCCTTCCCATGTGCA
GTCCCTGTCCCCCGCCGCCAGTCCTCCACACCCAAACTGTTTCTGATTGGCTTTTAGCTT
TTTGGTGGTTTTTTTTTTTT
Sequence 1324
CCGCGGTGGCGGCCGCCCGGGCAGGTGCCTAATATATTTACTCTCTGGTCCTTTACAGGA
AAAGTTTGCCAACCTCTGGCTTAGATGATCACCTGAGGCCAAGGAGCCTCGCCCTTGAGC
ACAAGACTATGTAGTCAGTAAAGCACAAACAAAATTGGGGCTTTCCCTAGCAAGGTTGGA
AAGGCGGAGAAGAAATGGATTTGGATAGGTAGTCAACAATGTCTGTTTTATGTTACCACA
CATTTTCTCGAGAAATTTCAATCAGCTCTCTGAGAACAGATTCATCTTTAAATGAATGTT
CATAGGTAACAGCAACTCATGCATCAATGTTGCAAAGTGAGCTCATTTTCACATTGCTTC
AGGTTAGGCAGAAGGTTTGGTAAAGGGATTAACGTAATTGTTTCCTTGNTGTTTACAAAA
AGAAGTCCCAGTTGGCATGCCACATAAAATCTTCTGNATCTCACTCTTGGTTACATTTC
Sequence 1325
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCACGCGTCCGCAGAGGCCC
AGGCTCCCAAACCGACAAAGTGAAAAGAGACCAGAGAGGCCAAGCATATTGACTGGTGCT
GTTCAGGGCCTGCTCTTTTCCACTCACCACTTGTTTTGCTGCTTGTCACGAGGAGAGTTG
TTCCTGTATGTGGCTGCTCTCAGATCTTTCCAAGCAAGCCAGTCATTTGAAGAGGTTTTC
TTTTCATGCTGGAGGGCAGGCTAAGATCAATGAGTGGAAGAGAGAAAGGCTGTTTTAGCT
CAAGTTAAAGGAACACCTTCTAGCCATCAAAGCCGCCCAACAGAGGCAAGGGCCACCACA
CATGAGAGAGCGCTCTNTCCTTAA
Sequence 1326
GCGAATTGGAGCTCNCCGCGGTGGCGGNCGCCCGGGCAGGTACCAAAATAATTACCAACA
NTACATTATGTACACCATTTACAGGAGGGTAACACAAACCTTGACAGGTAGTAACTTTTC
ACCCCACATNACTGAACGCTTAACACTCCTGGCTGTTAATTGTCAGTTCAGTGTTTTAAT
CTGACGCAGGCTTATGCGGAGGAGAATGTTTTCATGTTACTTATACTAACATTAGTTCTT
CTATAGGGTGATAGCGGACGCGTGGGTCGAAGCTTGACCT
Sequence 1327
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCTGTAGCCTATGACTTG
AGTCTCTTGAACTTCTAGGAAGAGGCAAACTACAAACTACTAGGATTCTGATTTCAGATA
TAGGCATTCCAGAATCTTCTCTTTACGAGTTCACCTGCTAGTATAATCTCCACAACTTGA
ATGGCCTTGGTTGTTCTGTAATTGCTGCCAAAATCATCACAAGCTGTACCTGCCCGGGCG
GCCGGCCGCCCGGGCAGGTCAAGCTTCGACCCACGCGTCCGGATGGGAATTCAGGTATGA
AAGAAAACAGGCAAGGAGGCACTGAGGGAGAAAGACACAGACTTTATCGCTCTGTGGCTC
ATTGTTACTGGAATATTCTAAAACTCTTGTTCACATGCTATTATGACTTATAAAGCAGCA
ACAGCTGAGGCGCACCAGGACACAGCTTCCATTTCTTTAACGT
Sequence 1328
AGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGA
AAAATGGGAGACAATTTCACATGGACTTTGGAAAATATTTTTTTCCTTTGCATTCATCTC
TCAAACTTAGTTTTTATCTTTGACCAACCGAACATGACCAAAAACCAAAAGTGCATTCAA
CCTTACCAAAAAAAAAAAAAAAAAAAGACCTGCCCGGGCGGCCGGCCGCCCGGGCAGGTA
CAAGCTCGACCCACGCGTCCGAAATAATAAAGCTAGAAGTAATATTTTTCCTTTTGTCTA
TTTTCCAAATTGACTCGATATTGATGGCTACTTTTGTAAGTTTTTATTTAAGTTTAAAGG
GAATATTTATTGATCACCTNTATGTGCTCAGTACCT

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Sequence 1329
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGCTTCGACCCACGCGTCCGC
TTGGGGATTTCGAGGAAGGGTTCATAAGGGAGATTTTAGCTGAGAAATACCATTTGCACA
GTCAATCACTTCTGACCAAGTTATCAGAAAAAGGAGAAAAGAATGTCTCCCCACTAAATG
TTCTAGGGTGGTGAGAAATCTAGGGTGGTTATCTAAATCAACAATATTTAGATATTCCAA
TATCTAAATATTGTTGGAAATACTCTCCTGAAGTGTTCATTGAACTCTAAGAGAGACAGC
TTGTGTATCAGTGGCAGGGTTTAAGGTTCATTTTTTATTCCCATATTAATCCTTTAATAT
TTAGACAAATTTCCTTCTGAGTTTAAGGATAAAATGGGATGGGTTCTGCCTGGGCCTGGC
CCTCATGGGGACATCAAAGGGCAATGTTGCAAAAAAAAAAACC
Sequence 1330
AGGTCAAGCTTCGACCCACGCGTCCGTGAACTTTTATCAAGGCTTTTGCTCTTTTAGACT
TGAGTTTATCTTTATAATTAAGGAGAATGGTTTTTAAAATTTAGTTCCTCTGACACCCCA
AAATTATCAAAATAAATTATGTTGTAGTGAATCTGTGTTTTGAAAGTCATTGATAGGACT
TATATGAGTCAAAATTTTATGGATTATAAACTAGGCTTTATCTGGTTGGAAATAATTGCA
ATACAAGAAGCAACTTTATTAAATTAGACCTAAAGTCACAATCTTCTTCTTTGCTGCTTT
TTAAAAATTACCTATTACCTTTAAAAGATCCCAAATTTAGAAGAGGAATTAAAATAAAAG
TTAATGCAATAAAACACTTCCACAATATTCTATTACTTCAACCTCTAATCAATGAAA
Sequence 1331
AGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTAAAATTTAAAGTATAATA
ATAATAAATTTTTGTTTTAAAAAAAGAGTGTTGTCTTTGTCTTGTATTTTCTGCAGTTTG
CATGTGATATTCTTAGGTATAGATTTTTTTTAGTATTTGTCCTGTATATTGTTATTCGAG
CTTCTGGGATCTGTGTTTTGGTGTCTATCATTAACTTTGGAATATTCTCAGTCATTACTG
CTTCAAACATTCATTCTGTTGCTTTTTCTCTTCTGGTATTATCATTACACATATATCACA
CCTTTTGTAATTCTCCCACAGTTCATAGATATTCTGTNGTATTTATTTATTTTTTCTCTT
TGCCTTTTAGTTTTAGAGATTTCTATTGACATCACTTAAAGATGATTGATGAGTTGATGA
GAATTGAGAGAATTGATGAGAATTGTTGATGAGAATTATT
Sequence 1332
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTTCCTGCATTTC
TAATGAAGAAATAGGCTGGTCCTCAATTTTGCAGAAGTTGTATCATCATAGGTCATACCT
AACATTCGTTTGTCAAGAGCAAAAAAACCCCCTTGGGTTCTCTGGATCTCACACAGCCCA
CAAACCTTCAGAATGTGGTTCCTTCCCGCAGGCTTTGTCACACTTAAGATCCAAGAACAA
ATCAGCCTGGCTTTAACATGGGGTAGATGGCAAGAAGGATAATGCGGACGCGTGGGTCGA
AACTTGACCT
Sequence 1333
CCGCGGTGGCGGCCGAGGTAGCGGTCGCACTTTTTTTTTTTTTTTTTTTTTAAATAGAGA
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CTACCAAAGTGCTGGGATTTACAGGCATGAGCCACCTCTCCCAGTCTCAGTTATTATTTT
AATAAATGAGACTGAACGTCCTCTTATAAGGCTCACTCCCTTGTTCCTACTACATTTGCT
CTGTTTAAGTATCTCTTTAAATTCTTCAGTTAAGCGGACGCGTGGGTCGAAGACCTGCCC
GGGCGGCCGGCCGCCCGGGCAGGTATTAACAGGTGCTTGCAGTTTGTTGACTTTTTTGAA
AAAATCAAGTTGTAAACTTTTATTACAAATTAAAAATGAAGTTCTTAAAAATCTCAACTT
GACCAGATATGAAACAATTTAAAAACCTTTAAGGCGTATTGAGAAAAACCAGGCTTTTTT
AAA
Sequence 1334
ACTTAGGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGCTCACCTGCCCGGGCGGCCGCTC
GAGGCCGCTCACCTGCCCGGGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTTNNCAAAA
CAAAACATGCTTAGCATGCACACTTTTACCACTTTTTTCGAGTGGAAAGTTTATTGGCAA
TATTAAATTTCACCCTANATAGGATATGAGAATGTTTTGATAAATCACAATTTATAGTAT
ATTAATGCCATGTGAGAATTTTGTTTCCCAAGTAAGAGCTCACATGGAACTTGGTCATTA
AACCTTAAAGAAACCTTTCTCACATATCTATAGGCCTCAAATTGAAATAATCTATAAATG
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TATATAAACTTCTGCTTTGGTCTAAAACTGATATATCTTCACGTTGAGGTTTCATCTGAA
ATGCNCCACCGTTTGCTGACTTGCTTCAATATGAATTTGGATGGCTATAAAATTGACCTC
GGCCGCTCTAGAACTAGTGGGATCCCC

Sequence 1335

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCGGCCGCTCGAGGCCG
CACTTTTTTTTTTTTTTTTTTTTGGTAAACAGGCGGGGTAAGATTTGCCGAGTTCCTTTT
ACTTTTTTTAACCTTTCCTTATGAGCATGCCTGTGTTGGGTTGACAGTGAGGGTAATAAT
GACTTGTTGGTTGATTGTAGATATTGGCGGACGCGTGGGTCGAATCTTGTACCTGCCCGG
GCGGCCCATAGTTTGTCAACCACTGGTGTAAAACCTTAGTTATATATGATCTGCATTTTC
TTGAACTGATCATTGAAAACTTATAAACCTAACAGAAAAGCCACATAATATTTAGTGTCA
TTATGCAATAATCACATTGCCTTTGTGTTAATAGTCAAATACTTACCTTTGGAGAATACT
TACCTTTGGAGGGAATGTATAAAATTTCTCAGGCAGAGTCCTGGATATAGGAAAAAGTAA
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ATCCTCATCTNGAGAAGTGCTTAAAAT

Sequence 1336

CCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGAAGATCCTGCGGAAGGAA
TATGTTTTTGCTGACTCCAAAGTAAGTGACAGCAAACTTCTAAAATGGGCTGTGAGGTAG
GGAGGGGACACAAGCGTTTTGAGGCTCGCTGNGTGCCAGGGAGTGTATCATTAGCTCACT
CAATTCCCAGAACAACCCATTTCACACCTGGGAAAGGTGAACTTAGAGAAGTTGAGGATC
ATGTTCCAGGTTGGCCTGGATTTGAGCCATCACTGTCTCAGGAGTAGGGAGGCTTCCCAC
TTTGCCCAGCTGCCTCCCAGCCTCGAGGCCACATCCTTTATGACCCACATCTAACTCAGC
CCCACACCTGGGGGAAAGGCTTTCAGCTTCTCTGGGCTGGACTTGGGAAATCTTTGGGAC
ACTCCTGACCTGCCCGGGCGGC

Sequence 1337

CCGCGGTGGCGGCCGCCCGGGCAGGTGTCCCCATGAGGGCCAGGCCCAGGCAGAACCCAT
CCCATTTTATCCTTAAACTCAGAAGGAAATNNGTCTAAATATTAAAGGATTAATATGGGA
ATAAAAAATGAACCTTAAACCCTGCCACTGATACACAAGCTGTCTCTCTTAGAGTTCAAT
GAACACTTCAGGAGAGTATTTCCAACAATATTTAGATATTGGAATATCTAAATATTGTTG
ATTTAGATAACCACCCTAGATTTCTCACCACCCTAGAACATTTAGNGGGGAGACATTCTT
TTCTCCTTTTTCTGATAACTTGGTCAGAAGTGATTGACTGTGCAAATGGTATTTCTCAGC
TAAAATCTCCCTTATGAACCCTTCCTCGAAATCCCAAGGT

Sequence 1338

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGCTTCGACCCACGCGTCCGCTT
GGGGATTTCGAGGAAGGGTTCATAAGGGAGATTTTAGCTGAGAAATACCATTTGCACAGT
CAATCACTTCTGACCAAGTTATCAGAAAAAGGAGAAAAGAATGTCTCCCCACTAAATGTT
CTAGGGTGGTGAGAAATCTAGGGTGGTTATCTAAATCAACAATATTTAGATATTCCAATA
TCTAAATATTGTTGGAAATACTCTCCTGAAGTGTTCATTGAACTCTAAGAGAGACAGCTT
GTGTATCAGTGGCAGGGTTTAAGGTTCATTTTTTATTCCCATATTAATCCTTTAATATTT
AGACAAATTTCCTTCTGAGTTTAAGGATAAAATGGGATGGGTTCTGCCTGGGCCTGGCCC
TCATGGGGACATCAAAGGGCAATGTTGCAAAAAAAAAAAAACCTGCCCGGGCGGC

Sequence 1339

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGATTCTCTGATTAGATTTTAAACTT
TTTTGATGAAATATTGAGTCTTAACTACTTTAAGATGCCATAATACTGAATACAGNGCTA
AGCAAAATAAATATTGACTAGTTCTCATTTCTATCTTTCAAATATTTCTAATGCTCCTCT
TTTATAGCATGGGCTCAGGTATCAGATGGCGTAGGTCAAGATCTTGGCTCTACTGTTTAC
TTACGGGAAATACTTTTATGTTGCTAAATCTCAGTTTTCTCTTCTGTAAGACGGGATTAA
AGTACCT

Sequence 1340

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCTACTCAAGTAGTCT
TTACCCCCTACTCAAGTAGGGGGTAAAGTGTAGAACAAGGAGTTTGATNTGTGTTNGCTG
ATTGTGAACCATCAATTGAGATAACTCACTACCTTCAGGCCAGCCAGTTACATACTTTTG

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AAAAGCCAAGAGTGAAGCAGGGTTGTTTTTCATCCAATTCTTGGTCTTTTTGTTAAAGGC
AGCAATAAGATAGGGTGGTTTCGGGCAATCACTTAGCTAATTGGCTCTCTATAGTCATAC
CTGGATAATATTTGTAGTCATACCTGGGATAATATTTAAAGGGAAGAAACTAAACATAGT
CCTTAAGTAGGAACCAACTACAAT
Sequence 1341
CCGCGGTGGCGGCCGAGGTCCTAGCTTGAGTCGACCCACGCGTCCGGCCGCTGTTCGTAT
TTCTTATTCTACAACAAGGGNGCAGCCTANAGGCAAAACACATCCCATTGTCATTTTTTT
GTAAATAAAGTTGTATTGGAACATGGCCACTCTCATTTGTTTTCTATTATTTATGGCTGC
TTTCACTTACAACCTGAGTGGTTGCCACAGAAACTGTATGGCCTGCAAAGTCTAAAATAT
TTACTATGTAGCTTTTTCTTTTCTTTTTGGAGACAGTGTGCCACTCTATTGCCCAGGCTG
GAGTGCGGTGGTGTGATCATGGCTCATTGCAGCCTCAAACTCCTGGGCTCAAGCAATCCT
CCCGCCTCGGTCTCCCAAGTAGTTGGGACTACAGGCATGAGCCACCATACCCGGCTAATT
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CCTGGTCTTAAATGACCCTTTTCCCATCAG
Sequence 1342
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAGTTATTTATTGATTTAATCAT
TGTAATCTCCAATAGAGATTACAATAGAGATCTCCAACATGATTTCATGCATTTAGAGGA
GAAATATTTCCTGGTTAAGTGGAAAATTGTGCGGATGTGGCTTCTGGAAGACCTTCATTC
TAAAGCAGCGGACGCGTGGGTCGAAACCTGCCCGGGCGGCCGGCCGCCCGGGCAGGTCTG
CAATCCAGCTAGGCATGGGAGGGAACAAGGAAAACATGGAACCCAAAGGGAACTGCAGCG
AGAGCACAAAGATTCTAGGATACTGCGAGCAAATGGGGTGGAGGGGTGCTCTCCTGAGCT
ACAGAAGGAATGATCTGGTGGTTAAGATAAAACACAAGTCAAACTTATTCGAGTTGTNCA
CAGTCAGCAATGGNGATCTTTTTGCTNGTCTTGCCCATTCCTGGA
Sequence 1343
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGCTTTAAAACCCATA
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CATCAAGATTTTTGACAAGAAAATTTTAGAAAAACTGTGGAAGAAAACTGATTGCTCTTA
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ATAAAATACACACCATATTTCAAAGGTTTTTAAAAGAATGTAAAACATTTCATTAATTTC
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AGGCAGGGGGTGTGGGGTGTCCCCTGTGCTTAGAAACCACCTAGCATCATAAGCTGCAAC
AGCACTTTATTGGGATCTGAGTCTACAGTTCACATAGGGAGGTGAAGCCGTGGGAGAAGC
AGGGNGTAAAAAAAAAAAAAGGGGGGGGGACTTTACCCCCCTAAGGACAGGNTGCTTTCC
AAACCTAACAAAAAC
Sequence 1344
CCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGTAATTTGTTGCACACTAT
GTAACAAAACAACTGAAGATATGTTTAATAAATATTGTACTTATTGGAAGTAAAAAAAAA
AAAAAAAAAAAAAAAAAGTGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTGCTGGGGTTT
TTTTCTTTTCTTTTTTTTTCAGCTACAGGAATTTAGCCAATTCANAGGAAATCTTCCCCA
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GAAATAACAATAACAACTTCAACAAATAAAAAAACAGTTAAGCTAAATAAACAGATGATT
GCAGAATTTATGTGATTACTGGGTACCTCGGCCGCTNTAGAACTAGTG
Sequence 1345
CCGCGGTGGCGGCCGCCCGGGCAGGTACCAAGTTTGAGTTGAAACGGTATGTGACTTCCC
CAGCTGCACCCTGGGCAGTGACTGCATGCATCACTGAGAGGTCCTGTCTACAGCAGATAA
AACTCCACAGATCACTCCTCCTGTAATCCCTCTAAGTGCTCCAAGGCAGCAGAAAGGCCC
AGTGCATTGAGGCTGGAAGCAGGAGCAGAGACTCTGGGATATAGTGCGAAAGTCTCTTTC
CCCTGTAGTTGGGCTAATCTGGAAAAACTCAAAAACCTGGCCTGATTACCGAGGTTTCTT
TTATGGATATTTAGTATTTAGATAAAATTTTTACAGTATTCTTGAAATGAACCCAATTAA
ACACATAGTTCTCAGTCTTGACCACACATTAAGAATCATCTGGTAGACTTCTGTAAACTA
CCAATGCCTGGCCA

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Sequence 1346
CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTACCTGAAAATGCTTATTCTAGC
TTCACATTTGATTGTTTGGCTAAGAAGAAAATTATTTATTAGACTTAATTTTCCTCACGA
GTTTAAAGATTGCTTCAGATCTTAAACTTCTAATGAGGAAAGCTGAGAAGTCCAATGCCA
TTCTGATTCTTGCAACTTACAAGTAGTCTTTTTTTGTCTANACGCTTTCAGGACCTTCTT
TTTTCCTCAGTCAGTGTATCCAAACCTTCACAGTGATATCTTTTGGGTACCT
Sequence 1347
CTCCCCGCGGGGGCGGCCGCCCGGNAGGCNAAGCTTCGACCCACGCGTCCGCTTTAAAGG
GAATTCTNTGTAGAGTGGGAGGCGAACACGNCTGGNNCTTCCAACTCAGGAATTCTCGTG
GCTGGGCTGGGTCAGCGATGGCTTTGTCTCTTTATGTCTAAAGTGCCCTATGGCATGCTG
AAGGTTACCTAACCATTCTTTAAAAGGAGAATGACCCTCCATGGGAATGGCCAGCCTGCC
AACTGTGCAATTGAAGAAGACCCGATGGATCAACCCCATGTCTTCCTTGGGGAGAAAGTG
CATAAACCAGGGGTCCCTTTTTTTTTT
Sequence 1348
AGGTCAAGCTTCGACCCACGCGTCCGCAAAAATCAATCAAGGGTTCCTACTCAAGTAAAA
AGCAACTTGTAGGAAAATAATAGGGGATATATTTTGCTCATTAAGGATCTTTTTATAGTG
GCTCTTGGTGCACTGCCTGTGAGTTAGCCTTATCCTCAAGGAGCAGCTTAAAAAAAAAAA
AAAAAAAAGT
Sequence 1349
GCGCGTATACGACTCCTATAGGGCGAATTGGGAGCTCCCCGCGGTGGGCGGCCCGAGGTA
CAAACTATGTATCTGAAACACTTCTATTTGGCAATTTTATAACAAATCAAATTTTAAAAA
GAACAAAAGAGATTGCAGATTACTTCGCAGATACAGAATAAAGCAATTGATGAAGTGCTT
AAGCAAAAGAAACAACAAAAAAAGAAAACACACTGCTTTTCTTTTTAAAAATAAAATCAC
ATTGCTATAGATCAAATGGATAATACCCTTATTAAACAACCATTCCAGAATGTCTTATAG
TAGCAGTGCTTTTATTTGCACTTCACTTAATTTTATAAGACTCATTTTCATGTATATAGC
TCTTTACCCCCATTGTTAACGAATAAAGTCTCTCATAATTTTTACACTTTTAAATTTTTT
AAAGCAAATGAGAAATGATTTATGTATCGTGGAACCTTTCCCATTTTGGAACCAAAGGTT
TTAATTCTATATTTTTGNCTAATATTTCTTTAAAAAAT
Sequence 1350
CCGCGGTGGCGGCCCGCCCGGGCAGGTACTATCTATAAAGGAGGTTTGATGTTTTCATTA
CTGTTTTTGTAAATATTTCAGCATTATCTTTAAAAAGTAAGGACATTGGCCGGGTGCGGT
GGCTCATACCTGTAATCCCAGCGCTTTGGGAGGCNGGTGGGTGGATCACCTGAGGCTAGA
TAGTTTTATTCACTTGGCTGTTTCACCAAAAAAAAAAAAAAAAAAAAAGTGCGGCCACCT

Sequence 1351
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAGCAGGATTACCATGG
CAACAACACATCATCAGTAGGGTAAAACTAACCTGTCTCACGACGGTCTAAACCCAGTAG
AAACAAAGTGCGGCCGGCCGCCCGGGCAGGTGCCGCACTTTTTTTTTTTTTTTTTTTTAG
AATAGGATTGAATTTTATTAAAAACAAAAATAAATCTAAAAAGCTTCCTTCAGTTACAAA
TATGCACAAGAATTTCTGCATTACATCATTTGACATAAAATGTTCTGAATGACAGAAGTA
GAAGTAGAACTTACTACCATTTGAAGACAGGAGTTGAGCGCTGAAAACCACACACATTTA
TAGAAAGAAACCAAAGTTTCACAGGGAAGACCTGTGATCTCTGGCTACAGGAGCTGAAAT
TAGGAACATGAAAGAAACTTGGAGAGAGAAGACATTCAATACTCTAAAATACTTCAGCAA
AAATAGTCAAACATNTGTNAACAACTTGGNACAAAACTTTATATGGTGGGGGGTGGCTAT
GCCGGAAAAANTCTTNACTGGNTATTATTCACCTCAAAAAGGGGGNTTTTAATGNTCACG
AATCCTTCCTTTAAAATAAAANAAGCNTGGNTTNTTTTTCTGGNGTCAAGAGTAAAANG
TANTAGGGNNTACTCAGGGATGGTTTGGAATTTTAAAACGGGGCNTTCCACCCTTGGTGG
CTNGTGGCANTTTANCCCAAAACGGCNAAANAACCGGCCCGNGGTCAACTTGNAAAACCT
GGCGGNTTNAAATANGGACCCCGGGTGGGGGATTNANTNAGNTTTGANCCGNNNCTTGGG
GGGGCCGGCCC
Sequence 1352

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CGAGGTCAAGCTTCGACCCACGCGTCCGGTTACTAGAGCCCTTGAAGGGCAGCACTTGGG
TTTAGTTGGCCTCTTCTGTTTTTACCTAATTTCTCAATCCCACCTATTCTTTTTTCTCAC
TTTCTTAAATCCCAGTAATTATCTTAGGANAAGCAGTTTTCTATGCATAGACAGTTCATT
TAGATTGGTAACATGGGCTAGGTAAAAAAAAAAAAAAAAAAAAAAGGTGCGACCTGCCCG
GGCGGCCGCTCGAGGCCGCCCGGGCAGGTACTATGTCGATTCGACAGAACATTCAGAAGA
TTCTCGGCCTTGCCCCTTCACGAGCCGCCACCAAGCAGGCAGGTGGATTTCTTGGCCCAC
CACCTNCTTCTGGGAAGTTCTCTTGAACTCAAGAACTCTTTATTTTCTATCATTCTTTCT
AGACACACACACATNAGACTGGCAACTGTTTTGTAGCAANAGCCATANGTAGCCTTACTA
CTTGGGCCCNTTTCTAGGTTTGAATTATTTCTAAGCCTTTTGGGNATGATTAGAGNGAAA
ATGGCNCCNGCAAACTTGNAGGGGCTTTTGGNNCCANAATGATTTTTAATAAAAAAAAGG
GGATTGAATAGNTAAANTCAAGGGAANGGTTTATGNAAAGGAAAAAAAAAAGCCTCCTTC
NTGGTTTAATTTACAAAAGGTNTTTTNTNGGGGGACCGNCTNTAAAGNACTNGGGNTTNC
CCCGCAAGGTGGGNNGGTATTNACCCNTTTNNGGNTTNAAAAAAAAAANTTNGNNNGGGT
NAACCCTGGAACNGGGGGGGTTNGGNG

Sequence 1353

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGCAGGTCTTCGACCCACGC
GTCCCGGGGTTTCAAACTGAATAACTCATTGTTGGGTCTGGATCTGTAAAAAGGTTTTGT
CACTGATGGGCAATATGGAGAGAATGTAAAAATATCTAACTTCAAACAGAAAAAAGAAAC
AACTGGATGAAAGCTATAAACAATAGTTCAGAAGATTGGCGTAGAGGATTTACCTACAGA
ACTTCAGGAGATTCCTAAGAAGGCCTTCAGTGATCTTTTCATCAATATCATCAGGCCTTA
TCATTGTTTCACATTTGCTTCTCTTTACCATAGGGAATATAATAATTATTTACTGGTTAA
CTTCCTAGGGAGATTGCCTGCGGCTTATTTAAGATCCAAATTTTAAAGTAATAATTTCTG
TTGAAGCTGCTTGTGAGGTGGTTGGGTGGGCAGATAGAGTGAAGCCAGGGACACACACTA
AATGAGCCCGGGATGTAGGCAGGTTTTGATGTTTTGCTTGCTTTTATCCCTAACATT

Sequence 1354

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGATTCTCTGATTAGATTTTAAACTT
TTTTGATGAAATATTGAGTCTTAACTACTTTAAGATGCCATAATACTGAATACAGTGCTA
AGCAAAATAAATATTGACTAGTTCTCATTTCTATCTTTCAAATATTTCTAATGCTCCTCT
TTAAGCATGGGCTCAGGTATCAGATGGCGTAGGTCAAGATCTTGGCTCTACTGTTTACTT
ACGGGAAATACTTTTATGTTGCTAAATCTCAGTTTTCTCTTCTGTAAGACGGGATTAAAG
TACCT

Sequence 1355

AGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTCTTCGACCCACGCGTCCGGGGTTTCAA
ACTGAATAACTCATTGTTGGGTCTGGATCTGTAAAAAGGTTTTGTCACTGATGGGCAATA
TGGAGAGAATGTAAAAATATCTAACTTCAAACAGAAAAAAGAAACAACTGGAATGAAAAG
CTATAAACAATAGTTCAGAAGATTGGCGTAGAGGATTTACCTACAGAACTTCAGGAGATT
CCTAAGAAGGCCTTCAGTGATCTTTTCATCAATATCATCAGGCCTTATCATTGTTTCACA
TTTGCTTCTCTTTACCATAGGGAATATAATAATTATTTACTGGTTAACTTCCTAGGGAGA
TTGCCTGCGGCTTATTTAAGATCCAAATTTTAAAGTAATAATTTCTGTTGAAGCTGCTTG
TGAGGTGGTTGGGTGGGCAGATAGAGTGAAGCCAGGGACACACACTAAATGAGCCCGGGA
TGTAGGCAGGTTTTGATGGTTTGCTTGC

Sequence 1356

CGCCCGGGCAGGTACTATCTATAAAGGAGGTTTGATGTTTTCATTACTGTTTTTGTAAAT
ATTTCAGCATTATCTTTAAAAAGTAAGGACATTGGCCGGGTGCGGTGGCTCATACCTGTA
ATCCCAGCGCTTTGGGAGGCNGGTGGGTGGATCACCTGAGGCTAGATAGTTTTATTCACT
TGGCTGTTTCACCAAAAAAAAAAAAAAAAAAAAAGTGCGGCCACCT

Sequence 1357

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTCGCGTCCCGAGTGTTTCCA
CTCTGTCCATAAAATGGGAGCTAATATTCTCCAACCTGTGTGCCTGACATGATGGTTAAA
GGGATTAAACAAAACAATAGTTTGTAATTTATTCTGTCAGAGCAAACTGCTGGTAAATAA
AAGGGCTAGTGACGAAAAATAAATTTTAAAAAACCTAATAAAACAAGTTTGTAATTTATA

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ATTGTATACAAATAAAAGATGTTACAAAAAAAAAAAAAAAAAAAAGGACCTGCCCGGGC
GGCCGGCCGCCCGGGCAGGTTTTATTTAACATTCAAACTTCATTAAGACATGTGCAATAT
GGCAATTTTACTGGGGATTAAACCCTACCTAGGATTGCTTGCTGGGGCTTAGCAACAGGG
TCCAGTTCACACTTAGCACTAATTAAATACTTTATTGAATAAATACAATACCAAACAAAA
TGCATTCAAA

Sequence 1358

CCGCGGTGGCGGCCGAGGTCAAGTTTCGACCCACGCGTCCGCATTATCCTTCTTGCCATC
TACCCCATGTTAAAGCCAGGCTGATTTGTTCTTGGATCTTAAGTGTGACAAAGCCTGCGG
GAAGGAACCACATTCTGAAGGTTTGTGGGCTGTGTGAGATCCAGAGAACCCAAGGGGGTT
TTTTTGCTCTTGACAAACGAATGTTAGGTATGACCTATGATGATACAACTTCTGCAAAAT
TGAGGACCAGCCTATTTCTTCATTAGAAATGCAGGAAACCTGCCCG

Sequence 1359

CGCGGTGGCGGCCGAGGTCAACGCTTCGACCCACGCGTCCGGGACCTCAGAATATAAAAA
TATGGTTTTTTTTTCAGACTTACTAGTTTTTTTTGATAATTCCTCTACGAATGTTGATTT
AACTTAGAAATATGTAAATTTAATATTCAAAACCAAATTATTTTTTAAAGAGGAAAAAAA
TATAAAACCTGCCCGGGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTTNAAACTTT
AATAGNGTNCGGAAGNTGAATAATTTATGAAGGAGAGGGGTCAGGGTTGATTCG

Sequence 1360

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTGAGTCGACCCAC
NCGNCCGGAGATGTATACTGCCACTATAGGAACTATAAGAAAAAGTCAAATGGAAATNTN
ATAAATAAAAACCACAGTCACTATAATGAGGAAATACTTTGATANGGNGTCAGTGAACTC
AAAAATNANTCAATNGAAACTACTCAAACTAAAACTCAAAGAGAAAAAAAAANGATGGGAG
ATAATTATTTTTTTAAGAATTGGTCATCAAAATGTAGCAACAAGTTCGCCTTATCCTATAT
CATTTGAATTTTCAAAAAATAAGCTCATTATACAATCTTTAAAATATTTTGAATAGAACT
GTTTCATGTGTTATTNGTGAAAAT

Sequence 1361

CCGGGCAGGTCTACTCAAGTAGTCTTTACCCCCTACTCAAGTAGGGGGTAAAGTGTAGAA
CAAGGAGTTTGATCTGTGTTCAACTGATTGTGAACCATCAATTGAGATAACTCACTACCT
TCAGGCCAGCCAGTTACATACTTTTGAAAAGCCAAGAGTGAAGCAGGGTTGTTTTTCATC
CAATTCTTGGTCTTTTTGTTAAAGGCAGCAATAAGATAGGGTGGTTTCGGGCAATCACTT
AGCTAATTGGCTCTCTATAGTCATACCTGGATAATATTTGTAGTCATACCTGGATAATAT
TTAAAGGAAGAAACTAAACATAGTCCTTAAGTAGGAACAACTACAATTTTAAC

Sequence 1362

ACTGTTTTTTTTTATTTGTTGAAGTTGTTGTTGTTATTTCAGTCTTTTTCTTATTGGGTT
GACCAGACTTGGTAAAATCTGTAAGAAAGTTCCATAATTATGGGGAAGATTTCCTCTGAA
TTGGCTAAATTCCTGTAGCTGAAAAAAAAAAAAAAAAACCTGCCCGGGCGGCCGGCCGCCC
GGGCAGGTTACAAGCTTCGACCCACGCGTCCGGGAAATTTTAATTAAAAATAGGTGAACA
TTTTAAATGACCTAATACATATTTAGTCCACATTGAAACTTTGGCATTTTGNCATTGCCA
TTAAAATTTTTGATGGCATTAAAATTTTNATGCCATTAAAAATTTTTGATCAGTAGGTAG
CA

Sequence 1363

CCGCGGTGGCGGCCGAGGTACCACGGTTGTCCCCTGAAAGGTGTTGTGTCCCTCACCAGA
CTGGGAGCACCTCAAGGGCAGAACCCATGTCATGTTCCTTTTTGTATTTCCAGACCTGAA
ACTGCCAGTAAATAAACCCTAAAAGTAGAAAGAAAAAAAAAAAAAAAAAAAGTGCGGCCG
CCGCACTTTTTTTTTTTTTTTTTTTTNGGAAAACCAAACATGCTTTATTTCATTTTTTTC
ACAATTTATTTAAACATCTCANATATACAAAATAGGTACCT

Sequence 1364

CCGGGCAGGTCAGGAGTGTCCCAAAGATTTCCCAAGTCCAGCCCAGAGAAGCTGAAAGCC
TTTCCCCCAGGTGTGGGGCTGAGTTAGATGTGGGTCATAAAGGATGTGGCCTCGAGGCTG
GGAGGCAGCTGGGCAAAGTGGGAAGCCTCCCTACTCCTGAGACAGTGATGGCTCAAATCC
AGGCCAACCTGGAACATGATCCTCAACTTCTCTAAGTTCACCTTTCCCAGGTGTGAAATG

TABLE 1

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GGTTGTTCTGGGAATTGAGTGAGCTAATGATACACTCCCTGGCACACAGCGAGCCTCAAA
ACGCTTGTGTCCCCTCCCTACCTCACAGCCCATTTTAGAAGTTTGCTGTCACTTACTTTG
GAGTCAGCAAAAACATATTCCTTCCGCAGGATCTTCCGGACGCGTGGGTCGAAGCTTGAC
CT

Sequence 1365

TACTATAGGGCGNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCC
GATTGATTAATACCTGTCACAGATACATTTTGGTTTACAAATCAATGAACAATGGAGGGA
ACTCTGTCCTTAATCTTGGTACGAGACAATGAACCCCAGGTACTTACCCCAGACAACGAC
GCCGCTTNACCATGATGATGGACAACAGGCAACTTTTTTTTTGGAGTTTCAGCTTGCTTC
CAACAGGGACGGTGAGTGTGAGGTTTATTCCCATTTCTAAGACGATAGAAGTTTTCAGCC
TAAGCCGTATTCCTAGGTAAGCAGCTGGATTGCAGTTTTTGTCTTGGAAATTNTCCTTAA
TTGNNTNANNCGTTAANATTAACAAACTAGCTGGNTNTTAAATTTTTNTCNTTTACCCAT
TANAGGTNCCCCCANAAATTNAAAATNAAATTTNTGCAATTAATTTTTGAACCTTGCCCC
GGGGTGGGCCCTGGCCCCCCCCTNGACAANGNTTTTTTTTTTTTTTTTTTTTT

Sequence 1366

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCTTGAGTCG
ACCCACGCGTCCGGAGCTGCTCAATAGTGAGAATCAGGTGATATAATGCATGTGGAAAAA
GAATGTGAAAAATCTAACACTTTAGATTGTATACAGTGTTTTTTAAAAAGACACAAAAAA
ACTGTCAACATGAGAAACATAAGCAAAGTTTTACTCAAGACAAACATCCACGAGTCACAA
CTTCAGTTATTCCCAGTCTTCAAAATAACAGAAGGGCAAAGCAAAGGTAAACATGCAAA

Sequence 1367

GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGATTCTCTGATTAGATTTT
AAACTTTTTTGATGAAATATTGAGTCTTAACTACTTTAAGATGCCATAATACTGAATACA
GTGCTAAGCAAAATAAATATTGACTAGTTCTCATTTCTATCTTTCAAATATTTCTAATGC
TCCTCTTTTATAGCATGGGCTCAGGCATCAGATGGCGTAGGTCAAGATCTTGGCTCTACT
GTTTACTTACGGGAAATACTTTTATGTTGCTAAATCTCAGTTTTCTCTTCTGTAAGACGG
GATTAAAGTACCT

Sequence 1368

CCGCGGTGGCGGCCGTTAAAGGAATAATCTGCAGAACATCTTGATTTACAAGGGACAAAA
TGATGCAAATTATATGCTGTCCAACCTACTGGTGAACTGGATCAGAATGGTCCAAGGACT
GTTAAACAGAGGAAGTATTTACATTCTGAAAACTTGCGGACGCGTGGGTCGAAGCTTGTA
CACCTCGGCCGAGGTACCTTCTGTCACAAAGACCCAAGCTTCCTCCAGCTTCCAGGATAG
CAGTCAGCCAGCTGGAAAAGCCGAAGGGATCAGGGAGCCAAAGGTGACTGGGAAGCTAAA
GCAACAATCACCTAAATTACAGTCCTCCAAGAAAGTTGCTTTCCTCAGGCAGAATGCCCC
TCCCAAGGGCACAGACACACAAACACCGGCTGTGTTATNCCCATCCAAGACTCAGGCCAC
CCTGAAACCTAAGGACCATCATCAGCCCCTTTGGAANGGGCC

Sequence 1369

CCGGGCAGGTCGAGCGGCCGCCCGGGCAGGTTTCCTGCATTTCTAATGAAGAAATAGGCT
GGTCCTCAATTTTGCAGAAGTTGTATCATCATAGGTCATACCTAACATTCGTTTGTCAAG
AGCAAAAAAACCCCCTTGGGTTCTCTGGATCTCACACAGCCCACAAACCTTCAGAATGTG
GTTCCTTCCCGCAGGCTTTGTCACACTTAAGATCCAAGAACAAATCAGCCTGGCTTTAAC
ATGGGGTAGATGGCAAGAAGGATAATGCGGACGCGTGGGTCGAAACTTGACCTN

Sequence 1370

CCGCGGTGGCGGCCGCCCGGGCAGGTGTCGACCCACGCGTCCGACGACTCACTATAGGGA
TCTAGATCACGAGCGGCCGGCCGCCCGGGCAGGTACAGAGATTTAAATGAAATCTTCGAA
AGAATAAATTTGCTTTTCAGTCCACTGTATTTTCAAAATTT

Sequence 1371

CCGCGGTGGCGGCCGAGGTACTTCAAAGTTATTGCACATACACTTGTTTACTTTGTATGT
TTTGCAGGATTAAACTTTGTATAATCTTTTTACAAAATTTTTTTTTCAGTATGCAAGCTT
GCAAGATGAAAATAAAACCTGTTTGCCTGATAAAAAAAAAAAAAAAAAAAAAAAGTGCGG
CCGGCCGCCCGGGCAGGTCTTGAGTCGACCCACGCGTCCGCCGGAGAnnnnnnnnnnnn

TABLE 1
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nnnnnnnnnnnTGATCTAGATCACGAGCAGCCGCACTTTNTTTTTTTTTTTTTTTTTTGA
CGAATTCAGGAGTCCTTTATTAGCCGGCAGCCGANAGACAGCTAGCGCTCAAAATTNTCT
TGGCCCCGAAGAAGGAGCTAGATTTTCTTTTATAC
Sequence 1372
TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACATAGCACATTACATGTCAA
ATCCCTTCTCGCCCCCATGGATGACCCCCCTCAGATAGGGGTCCCTTGACCACCATCCTC
CGTGAAATCAATATCCCGCACAAGAGTGCTAAANAAAAAAAAGNNANAGGNCTGCCTNTG
TnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTNGNTATCAAGCTTAN
TCGATACCCGTTNACCTTGNGGGGGGGGCCCGNTANCCCANTTTTTTNTTTCCNTTTTAN
GGGGGGGGTAAATTTNGCCCCNNNTNGGGGNNAAAAAAAAANGGGNAAAAAAATTTTTTTT
CCTNGNGGGNAAANTTTTTTATNTNNTTTTTAANANANTTTTNNCCAAAAAAATNTAAAN
NGGNCCNGGGGGNNNNNTAAAAGNTAAAAAANNNNTNGGGGGGNCCNTTTNNGGGGGGGN
CCNNNANNNNCCAATTNNNNNNGGGGGGNNCGNCNNTNTTNCCCTTTTTTTTAAAAAANN
AAAAAAANCNCNGCCCCCCCCNTATTTTTNAATTNAAANCTCCCCCCCCNNGGGGGGGGG
G
Sequence 1373
CCGCGGTGGCGGCCGCCCGGGCAGGTTATAGACAATATGCTCCTTAAGGTCCCTTTCAGT
CCCGTTCTATGGATCTGTGTAGTTTCGCTTCTTTTTTCAATATGCTCAGAATTAGGACAC
CAATGTTAATGGAAGATAAGGAAACTATACCACCTATCCCTTATAGAAGATTTGTGCACT
AACTAATATGAGCCCTGGAAGATCAAGCCAGTAGAAGATAGAAGATCTATCCCTGCTTTA
TACTTTGGATCATTTATTTGTGAAGATCACAACTTTCAAAGTTTTATTATTTCTTAGGTC
TTCATGGAAGTTCGGGGAAATTAACTGGATCTACTTCTAGTCTAAATAAGCTCAGTGTTC
AGAGTTCAGGGAATCGCAGATCTCAGTCATCTTCCCTGTTGGATATGG
Sequence 1374
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCG
TCCGAAGAAGTGCTATGTGGCGAGAAAAAAAAGTTTTAATGTATTGGAGAAGTTTTAAAA
AACCCAGAAAAATGCCTTTTTTTTTTTTTTTGAACATAAACTCAAGATTTTATTGTCTTC
ATAATAAAAGATGACACTTAGAACTGGATCACTTGGCCCTTCTCTTCTTATCTCCTCCCA
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AAACNCCNCTTAAAGCCTTTAAACACAAATTTTTTTTTTTGGNGGNTTTTAAGCCCTTTTT
TCCCGGAAAAAAANTCGGNTTTNAATTTTGGNCCNANAAAANNACCCCTTTTGTTTTTTTT
NNNAANAAAAACCNCNTTTTTTNNTNNGGGGGGGAACCNTGTCCCGGGGGGGGGGNCGTT
TTTAAAAAAAAAAGGGGGNNCCCCCCCGGGCNGNGGGGGATTTTTTTTNTAAANNTTTTT
TTNNNCCCCCCCCCCC
Sequence 1375
CCGCGGTGGCGGCCGAGGTACTTCAAAGTTATTGCACATACACTTGTTTACTTTGTATGT
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GCAAGATGAAAATAAAACCTGTTTGCCTGATTAAAAAAAAAAAAAAAAAAAAAAAAAAA
GTGCGGCCTCGAGCGGCCGCCCGGGCAGGTACTCTATAAGAGGTGTGGGTGTCTTGTTTG
GTCAGGATGTTAGAAAGTGCTGATAAGTNNCATGATCAGTGTATNCCAAAAGGTTTTTAG
GAAGTATGGCAAAAANTGTTGTATTGGCTTTTATGGGGACATGATNNTAGTCNNCTTCCT
TTTTAAANANGNNTTATNTTGTTCNANTGGNTTAANTGGTTTTTAAAAA
Sequence 1376
TACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGAC
CCACGCGTCCGGCCACATTTTCAATTTAGCCATTTTTCTCTTATTCACCTTTTTCTGCTA
ATTACTCTGTAATTCCACTAAGAAAAGTCAATAGATAATTCCAATAATGACTTCACTCCT
GAGAATTTTATTAGCTGCTAACGCTTGTCTCATCATAAGCACTCATATGTTCATTGAGTA
AATATTTATTGAGTATTTGCTATGGTCCAGGCACTGTGCTAAGTATTGAGGATAAAATGG
TGATTGAAACATTTTCCCTTCTTGATTTTAACATCTACAAAATAAAA
Sequence 1377
CCGCGGTGGCGGCCGCCCGGGCAGGTAATCACACAACACTTTCTTTTCCAACTGCTGCAA

TABLE 1

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AGTGCATCTACAATATGCTATTACAGATCCACTTTTAAAAGGTTTCCTGTGACATTACAG
CAAGCCTCTTTTTTCAAACAGAGGAATAATCCCAAATTCTTCCTCAAATAAACTCCATTC
CAGTAAATGGTAAATACATAAAAAATTACAGTAAGCCAGACACTTAAAAGGACAGCCAAG
AAGTCTTCCAACAGTTTATTAGAAAGAATGTAGACATTTAAAAAAATCCCCACTGTCATG
AACATAAATTGAGGTTTTCAGCCCGGGTATAAGCTGAATCAAAAAAAGGAAATAAAAAAT
CCAATAGTGTATTAAACATTTTTCACTCATTTGCCATACTGACAGTGCAAATCAAATCTG
GACTAA

Sequence 1378

CCACTGGATTTGACTCAGAGAGGACCCCCAGAGGGTGTCTCCATCTTCCCTATTTATTTT
CAGCCCTTGAGGGCTTCATTGTAGATCAAAGCCAAGGCCCCCAGGAAGGNGACATACTCC
TGGAAGTTCACCTCCTGGTCCTTGTTCCGGTCCAAGTCTTCCATCAGCCTTGCAATTTCA
GCATCCTGCAGCTTCNAGCCAATGGTGAGCTCCTTCTGGATCAGCTCCTTCAGCTCCTTC
TTGCTCAGGGTGTGCTTGTCACCCTCCCTGCCGGAGATACCTGCCCG

Sequence 1379

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCAGGGATGGGAGG
CACAAGTTGTGATTGGGCAAAGTTTATTTTCTATGTCAGCCTGTCAGTCCACTGCCCCAT
TTTGCAAGACTTTTTTTTTAGCCTTGACAAAATGTCTCAGTTAAGTATAAAAGTTTTTCCA
CTACTTAGTCCAAAAAAAACTATTAAATCTTAATGAAATAGCCACTCTCAAAAAAAAAAA
AAAAAAAAAAGTGCGGCCGGCCGCCCGGGCAGGTCTTCGACCCACGCGTCCGTCTTTTTC
TTCCCAAACATAGACTTGCAAGACATGGCCTGTATGAGAAGAAAAAGACCTNAAGAAAGC
AACGAAAGGAACGCAAGAACAGAATGAAGAAAGTCAGGGGGA

Sequence 1380

CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAGCACATTACAGTCAAA
TCCCTTCTCGCCCCCATGGATGACCCCCCTCAGATAGGGGTCCCTTGACCACCATCCTCC
GTGAAATCAATATCCCGCACAAGAGTGCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAGTGCGGCCTNGAGCGGCCGCCCGGGCAGGTACATNTATTTTGGATTGTATATTGNG
TTTGTGTATTTACGCTTTGATTCATAGTAACTTNTTATGGAATTGATTTGCATTGAACAC
AAACTGTAAATAAAAAGAA

Sequence 1381

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAATCTGTCAA
ATATACTATGAAATGCATAGTCTCCACTTAAAATGCTGAATGACACACACGTTTTGCAAG
CATTACTGCTTTCCACAAAAACTGCTGAATAGGAGTTCCGTCCCTGCCAAGATCAGTGTT
TAAGAGATACTTTATGATGCTGATAAGTATTATTGGTGGTGGTGGTGTTCAGAAAGTTTG
TCACTCATGCAGATGTCTGAAATCTTGTTCCGAATCCATGGAACATAGGGTGGAGGCCAG
CTCCCCCTTTTTTTTAGATGATCACATAGTTCTGAGCAGAGATGTGGTCCTCACCCTGCAG
TTCCTGCAGGAGCTGCTGCTGCTGGGATGGCTGCTGG

Sequence 1382

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCG
TCCGATTTTTTTTAAAGTATTTTCTAGTCTTTTCTCTCTCTGTGGAATGGTGAAAGAGAGA
TGCCGTGTTTTGAAAGTAAGATGATGAAATGAATTTTTAATTCAAGAAACATTCAGAAAC
ATAGGAATTAAAACTTAGAGAAATGATCTAATTTCCCTGTTCACACAAACTTTACACTTT
AATCTGATGATTGGATATTTTATTTTAGTGAAACATCATCTTGTTAGCTAACTTTAAAAA
ATGGATGTAGAATGATTAAAGGTTGGTATGATTTTTTTTTAATGTATCAGTTTGAACCTA
GAATATTGAATTAAAATGCTGTCTCAGTATTTTAAAAGCAAAAAAGGAATGGAGGAAAAT
TGCATCTTAGACCATTTTTATATGCAGTGTACCTGCCC

Sequence 1383

CGAGGGAGTCTATTGGAGCCCTTGGGAACTTCTGGATCAAATTGGACCTGAATTGAGATC
TATTTCTCAGCTTTCACTTATGTGAGCCAATAAATTCCTTTTTTGTTGAAGGCAAAAAAA
AAAAAAAAAAAAAAAAAAAGT

Sequence 1384

TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTT

TABLE 1

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TTTTAACGTTTTAATTAAATGGATTTATTTAAAAAGACTATAAAATCTGACATCAAGAGA
GATAAAAAAAAAAAGACCCATAAGATTTAAATTGACAAATGTAAAATGATTGGCTACAATG
TAAAAATACATTTNCCAGCCCCCAAACAAAACACAAGTATAGTAATTATAAAATTTTTGG
ACCTGCCCG

Sequence 1385

AGGTCCTAGCTTGAGTCGACCCACGCGTCCGGCCGCTGTTCGTATTTCTTATTCTACAAC
AAGGGTCAGCCTACAGGCAAAACACATCCCATTGTCATTTTTTTGTAAATAAAGGTTGTA
TTNGGAACATGGCCACTCTCATTTGTTTTCTATTATTTATGGCTGCTTTCACTTACAACC
TGAGTGGTTGCCACAGAAACTGTATGGCCTGCAAAGTCTAAAATATTTACTATGTAGCTT
TTTCTTTTC

Sequence 1386

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTC
CGAGAAGAGTTTGCAAATGCAACAAAATATTTAATTACCGGTTGTTAAAACTGGTTTAGC
ACAATTTATATTTTCCCTCTCTTGCCTTTCTTAATTTGCAATAAAAGGTATTGAGCCATT
TTTTAAATGACATTTTTGA

Sequence 1387

CTACTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTT
TTTTTTTTTGCCTTCAACAAAAAAGGAATTTATTGGCTCACATAAGTGAAAGCTGAGAAA
TAGATCTCAATTCAGGTCCAATTTGATCCANAAGTTCCCAAGGGCTCCAATAGACTCCCT
NTCACCCTGGTACCTGCCCG

Sequence 1388

TAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGG
GGAGGACCTAGGCAACGGCCTGAGACTCCGAGACTCTATGTTGAAGATGCCTGGACTAAC
CTACTGAAGATACCGTGGTTTTACCAACAGCCAGCACCAATAGGAAGATATGAATGAAGC
CATCTGAGACCAGCCATCTGGCAGCCAAACTGCCAACTGACTGCAAATGCATGAATGATC
CCACTGACACCACGTAGAGCACAAATGAGTTGCCTCCACTGAGCCCAGCCCAAATTGTTA
TCCTATAAAATCATAAAAACATAAACAGTTGTTTTAAGTCAAAAAAAAAAAAAAAAAAAA
ATTAAGTGCGACCTGCCCGGNNCGGCCGGCCGCCCGGGCAGGTACCCATTAATTTGCTCA
GATATAGCAGGCTTAATGGTTCTATATTTTCAAAAGTTTTTAAGAATGGTT

Sequence 1389

TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAATAAGCCCACC
CCACTAGGAACTATGTTAAAAAAAAATTCAAGAAAGAATTTAAGGGAGATTACAGTGTTA
CTGTGACACCAGGAAAACTTAGAACTTTGTGTGAAATAGACTGGCCAGCATTAGAGGTGG
GTTGGCCATNANAAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATGACACAAGGTAA
CCCNTAAGCCAAGGCACCCAGACCAGTTTNCATACATAGAAAGTTACAGCTGCTTTTATA
CCCCCTTGCCCCGCCAACGTAGTTAAGAGAACAGCAGCATAAGCGGCTGGCAGAGGCAAG
GAAAGACCAGTAGAGAGAAAAAAAGGCCATCTATACCAATTNTAAGTTAATTTAGACTAA
ACAAGGTCTTAATAGCAAAGGATAATTGAAATCCCAAACTTACAAGGTTTTTTAAC

Sequence 1390

CCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGGGTTTCATGAATGGAAACCTAAG
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TCACCACCACGCCTCCCTGCCTACCATCCCCGGAAGGGTGCTTATTCTTTAACAAAGAGA
ATCTAAAAAAAAAAAAAAGTGCGGCCGGCCGCCCGGGCAGGTGAGAAAACAGACCATATT
TACTCACATAATTCGCCTTCTACCTTTCACCTGCTTATGTAATAATTTAACACTGTAGAG
GGGACATGGAGGTGACCGGAGTATTTAGTGGGTTCCTTGCTCCTGGGCTGGGCAGGTTCA
CAGGCCCCACAGGCCTTGGGCCCCAGCATC

Sequence 1391

CCGCGGTGGCGGCCGAGGTACTCTGAGGTCACGTCAAACTATGCTTTAGAACCTTCATCT
TTTGCTTTCTTGGGCTTTACTTTCCAAAATGGACTACAGGATAATGAGGCTTTTTTAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGT

Sequence 1392

TABLE 1
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CCGCGGTGGCGGCCGCACCTGCCCGGGCGGCCGCTCGAGGCCGCACTTTTTTTTTTTTTT
TTTTTTTTTTTTAAAAATTCAAAAAATTAGTTTATTAGCTTAATATAATTAGGTCAATGG
AATCCTGTTTTGATCTCAATACTTCCCATATTGCAATATATAAATGNGACAAATTCAGCT
GTTTTGTGGCATAAATAAGTGTCTAAGCTGGGCAGTTAGTCTACCC
Sequence 1393
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTTTTTTTTTTTTTTTCT
TTTGAAACAATTTTTCTGAAATTTATTTCTAAAAGTCAGAGACAAAACTTTAGGAGTGAC
ACATTTATACTAAGCATACATGCGTGAGCAAAAAAAAATAAGCACAGAATACAAAAATGA
AATAGTAAAATTTTAATACAGTATTCTGAATACAAGTAGAATACCACTAGATAAGAATTG
TATTTACCTAAGAAATCTATGATAGNGNGGGNGGAGATAAACCAGTTTAGGATAGCCACT
TCACTATTCACATTTTAATCAGTGCTGACCAGAAGCTAAAGCAA
Sequence 1394
ACTTAGGGCGATTGGAGCTCCCCGCGGNGGCGGCCGNGGTACAAATAAGCCCACCCCACT
AGGAACTATGTTAAAAAAAAATTCAAGAAAGAATTTAAGGGAGATTACAGTGTTACTGTG
ACACCAGGAAAACTTAGAACTTTGTGTGAAATAGACTGGCCAGCATTAGAGGTGGGTTGG
CCATCAGAAGGAAGCCTGNACAGGTCCCTTGTTTCAAAGGTATGACACANGGTAACCCGT
ANGCCAAGGCACCCAGACCAGTTTCCATACATAGAAAGNTACAGCTGCTTTTATACCCCC
TTGCCCCGCCAACGTAGTTAAGAGAACAGCAGCATAAGCGGCTGGCAGAGGCAAGGAAAG
ACCAGTNGAGAGAAAAAAAAAGGCCATCTATACCAATTCTAAGTTAATTTAGACTAAACA
A
Sequence 1395
CCGGGCAGGTACAAAAGGGTTCCTCTATATGCCAACTAATTCCAAATTTTTACTTTTACT
GCAAAAAAACCTTTTTGGCATCAAAACTCCATTGTTTCTCTGCACTCTGACACCATCATT
TCAAAGGGGCTCACATAAATGATCACTACTGCTCTCTCCCTAATTTTTGAAAAAGGAGTT
TTGAGAATAAAACAGTGCTTTTATTATTAGCCAACACAAAGTGTGAGAAAATCATTCCTG
AGAATTAACATTTTAAGCTAACAGAAATTCAGTATACTTAAAACATAATTATATTTAATG
AGTCATTATTTGGATCTAAAACGGACGCGTGGGTCGAAGACCTCGGCCGCTCTAGAA
Sequence 1396
CCGGGCAGGTACCAGTTTGAGTTGAAACGGTATGTGACTTCCCCAGCTGCGCCCTGGGCA
GTGACTGCATGCATCACTGAGAGGTCCTGTCTACAGCAGATAAAACTCCACAGATCACTC
CTCCTGTAATCCCTCTAAGTGCTCCAAGGCAGCAGAAAGGCCCAGTGCATTGAGGCTGGA
AGCAGGAGCAGAGACTCTGGGATATAGTGCGAAAGTCTCTTTCCCCTGTAGTTGGGCTAA
TCTGGAAAAACTCAAAAACCTGGCCTGATTACCGAGGTTTCTTTTATGGATATTTAGTAT
TTAGATAAAATTTTTACAGTATTCTTGAAATGAACCCAATTAAACACATAGT
Sequence 1397
AGGTACTTTAATCCCGTCTTACAGAAGAGAAAACTGAGATTTAGCAACATAAAAGTATTT
CCCGTAAGTAAACAGTAGAGCCAAGATCTTGACCTACGCCATCTGATACCTGAGCCCATG
CTATAAAAGAGGAGCATTAGAAATATTTGAAAGATAGAAATGAGAACTAGTCAATATTTA
TTTTGCTTAGCACTGTATTCAGTATTATGGCATCTTAAAGTAGTTAAGACTCAATATTTC
ATCAAAAAAGTTTAAAATCTAATCAGAGAAT
Sequence 1398
AGGTTTGAGTCGACCCACGCGTCCGGATTGATAGCTCTTTCTCGATTCCGTGGGTGGTGG
TGCATGGCCGTTCTTAGTTGGTGGAGCGATTTGTCTGGTTAATTCCGATAACGAACGAGA
CTCTGGCATGCTAACTAGTTACGCGGACCTGCCCGGGCGGCCGGCCGCCCGGGCAGGTGC
AAGATTCCTGATCGGTATACAGTGATGTATTTACTAAACAGAGACCTGTGCAGAAATTAC
ATACTATCCATCTAGATAGGTTGTTACACTTTTGCCTATTGATGGAATAGTTCCATTTAT
CAAGTTTTATACATCAAAAAGCTTTTGAAGTTCACCAGACTGTCCAT
Sequence 1399
CCGGGCAGGTACTGTAAATCTACTGTAATCCTGTTTTGCAGAATACTGCACGACGGAGAT
TGAGAAGTGAGAGCTCTTATGACATAGATAACATTGTGATTCCCATGTCATTAGTAGCCC
CAGCTAAATTTAGAGAAACTCCAATATAAGGGAAATACTTACTCCCAGGGTATGGTATAC

TABLE 1

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TTTACCATCTTCATANTTTTTTCTTTCCCTTCCCTTCCCTTAAAAAAACTNAANTTTTTC
NAAGGTGGAAGAANTTTTTAATTNAANTGGAAAGGGANGCTTCCCTTCTTCCCCAGTTCC
CTTCTTAGCCNATGGGAGGGGGAAACCGGG
Sequence 1400
CCGCGGTGGCGGCCGATTCTCTGATTAGATTTTAAACTTTTTTGATGAAATATTGAGTCT
TAACTACTTTAAGATGCCATAATACTGAATACAGTGCTAAGCAAAATAAATATTGACTAG
TTCTCATTTCTATCTTTCAAATATTTCTAATGCTCCTCTTTTATAGCATGGGCTCAGGTA
TCAGATGGCGTAGGTCAAGATCTTGGCTCTACTGTTTACTTACGGGAAATACTTTTATGT
TGCTAAATCTCAGNTTTCTCTTCTGTAAGACGGGATTAAAGTACCT
Sequence 1401
CCGGGCAGGTACCAGTTTGAGTTGAAACGGTATGTGACTTCCCCAGCTGCACCCTGGGCA
GNGACTGCATGCATCACTGAGAGGTCCTGTCTACAGCAGATAAAACTCCACAGATCACTC
CTCCTGTAATCCCTCTAAGTGCTCCAAGGCAGCAGAAAGGCCCAGTGCATTGAGGCTGGA
AGCAGGAGCAGAGACTCTGGGATATAGNGCGAAAGTCTCTTTCCCCTGTAGTTGGGCTAA
TCTGGAAAAACTCAAAAACCTGGCCTGATTACCGAGGTTTCTTTTATGGATATTTAGTAT
TTAGATAAAATNTTTACAGTATTCTTGAAATA
Sequence 1402
AGGTACTCCCATTTCCCTGAAACAAGCAGCCAGCAACTATCTCAGAAATGTGTCATTTTT
ACTGGTTATAATTCTTAAAAAGCTTGTTTTCCTAAGATATGAAATGCCTGCCAGTATACA
AACTGCTGTAACTACTTCCCTTTTTGCTTTTAGCGGGGAAAAAATAGCTTAATGACAGCA
TAGAATCATGTAGTAAATATAATTCATTTTTTGAAAGGTTCAGCTATATCCTCTTCCATT
TGTTTATTTTAAATGATCTAATTGCAAACATGTCATCACTCCCTTGATGTTTACCTNCTT
GTTATGCATTTTTAGCAGGCTTTATTGTCACC
Sequence 1403
AGGTCCTAGCTTGAGTCGACCCACGCGTCCGATTTTTGCCTCCAGACTACAGATCAGAAA
ACTGAGACTCAGAATGTTTCAATTCCTTGTTTAAGATCACAAAACTAGTTTGAGGTATAA
TGGAAACTGAAAAAAAAAAAAAAAAAAGTGCGGCCGGCCGCACTTTTTTTTTTTTTTTTT
CAATATTATTTATCAAAATAAATTTATTAAAAGTATTCAAAGACCACTTCAAAGNGTAGC
TGCCTTCAAGACAGATTTTTGGCACTCATAACGGACACTGCAGTTTTCAACACCATAGCA
CTCATTCTATTTCACACATCATTTTTAACAA
Sequence 1404
AGGTGTTAGTTACCACTTCATTACTGGAGGGCACTGTCACAAACTTCTGACTATCCAGAC
TTGAAGCTGGAAGCAAATACAAGTCTGAGGGGCTCTAAGCTGGGAGGTTCTGGCCTCTCC
CTAGCTCTCTATGGCTCTACCTCTCTGCTTGAAGCTCCCTGCACTGCACTCCCATTACTC
TGACTGGGGATAGGACCACTGCTGACAGGGCCCCACCTTCAACTTCTTTCATTGCTCCTC
TTTTCAGGAAATCCCCACCCTGGGGATACTTCAAAAGACCT
Sequence 1405
AGGTGATTCAGCAGGTCTGGGGTGGGACTGAGAGCTTGCATCTCTAACAAGCTCCCAGCG
AGGCTGATCCTGTTGCTCCAGGGACCACACCTTGAGAACCACTGGTTGGGCATTGATGAG
GTCAACCAGGAGAAGCAGTGTCCCCTAGAACTGGCAGGAGAGAAAGGACAAGGCTAAGAA
ACAGTGAACAGGAGTCAAGTAAATGCAGCTGCCAACAGGCGGGGGTCCTTGAGTTCACAT
TCTTGGTTCCAGGTGACGTTTCCTGGGAGTCAACAACCCTTCTCCTATGAAAAAGAAAAG
GGCCAGACACAGTGGCACACGGCTGTAACC
Sequence 1406
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGTCCCTAAATATTTAAC
TGTTACTTGTAAACTTGTGTAATTTATTATTTATTTTAATCAAAATTCTGAATATTTCAT
TTAAATGAAAGTTGCAAAAAAAAAAAAAAAAAAAAGTGCGGCCCGGCCGCCCGGGCAGGT
ACATACCTCCTTGCACAAATGGAGGGGAATTCATTTTCATCACTGGGAGTGTCCTTAGTG
TATAAAAACCATGCTGGTATATGGCTTCAAGTTGTAAAAATGAAAGTGACTTTAAAAGAA
AATAGGGGATGGTCCAGGATCTCCACTGATAAGACTGTTTTTTAAGTAACTTTAAGGAC
Sequence 1407

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AGGTACTCAATCTAATCCAAAATTTTCTTTCTTAGCAATCTATTTTCTGTATTTAGAAAA
ATGTTTTTTATTTCAAAGAGCCTCTCAAAGAGCATTTCACGTATCTTTTACTGTTTTTCT
CTCCACCTCCAAGGGGTCTGTCTAGATCAGTGCGGACGCGTGGGTCGAAGACCTGCCCGG
GCGGCCGGCCGCCCGGGCAGGTACTGAGGACAAATCAGTTCTCTGTGACCAGACATGAGA
AGGTTGCCAATGGGCTGTTGGGCGACCAAGGCCTTCCCGGAGTCTTCGTCCTCTATGAGC
TCTCGCCCATGATGGTGAAGCTGACGGAGAAGCACAGGTCCTTCACCCACTT

Sequence 1408

AGGTACATATCACACATTTCCAAATTTGAGACCACTAATGTTTTTTAATTTCAAATATGT
ATATAAATATGTATTCTTATTTCCAATTATTTCCTTGGCATGAATTCCTAGAAATTGATC
TATTTAGTATAAGTGCTTTTTTAGCTATATGTCCACTAGTATGGTATGAGAATGCCCTGT
TTATGCCAGTATTATCATCATTGAATATATTACTGCTGATGTTGTGGTAATACATTTAAA
CCAATGTGATGGGGCAAAAAAATTATATTTTTACTTACATCTTTAAAATTACTGGNGATC
TCTGNTATTGACAAGCTGGGCATANAAAAAGTAAATTAATAGAATT

Sequence 1409

CCGGGCAGGTCGGACGCGTGGGTCGAAGCTTGTACAAAAACCCAAGTATCACCTGAATTA
CAATTATTCTTAAAATTTGTCCTTAAATAGCTTACTCTTGGAAGATTTGTTTCTATGTAG
ACATTATGGTAAAAGTTACTCTGAAACTCTTTTCTTTAGTTATCTGTTTATTCTGAGCTC
AACAAGATTGAAGTAAGTTTTCGGGAGCTACAGAAATTAAATCAAGAAAAGAATAATAGA
GGATTATATTCAATTGAAGTGCTGGAGCTCTTCTGATATTATCAATTCTCCTTCATAGAC
ATTTTATAAAGCTCTTTTATGTGAACTCTTGCTTCATCCAGGCAAG

Sequence 1410

AGGTCTTCGACCCACGCGTCCGTTTTAGATCCAAATAATGACTCATTAAATATAATTATG
TTTTAAGTATACTGAATTTCTGTTAGCTTAAAATGTTAATTCTCAGGAATGATTTTCTCA
CACTTTGTGTTGGCTAATAATAAAAGCACTGTTTTATTCTCAAAACTCCTTTTTCAAAAA
TTAGGGAGAGAGCAGTAGTGATCATTTTATGTGAGCCCCTTTGAAATGATGGTGTCAGAG
NGCAGAGAANCAATGGGAGTTTTGATGCCAAAAAGGTTTTTTTTGCAGTNAAAGTAAAAA
TTTGGAATTAGTTGGCATTATAGAGGAACCCTTTTTTGTACCTGGCCCGGGCGGCC

Sequence 1411

AGGTGATTCAGCAGGTCTGGGGTGGGACTGAGAGCTTGCATCTCTAACAAGCTCCCAGCG
AGGCTGATCCTGTTGCTCCAGGGACCACACCTTGAGAACCACTGGTTGGGCATTGATGAG
GTCAACCAGGAGAAGCAGTGTCCCCTAGAACTGGCAGGAGAGAAAGGACAAGGCTAAGAA
ACAGTGAACAGGAGTCAAGTAAATGCAGCTGCCAACAGGCGGGGGTCCTTGAGTTCACAT
TCTTGGTTCCAGGTGACGTTTCCTGGGAGTCAACAACCCTTCTCCTATGAAAAAGAAA

Sequence 1412

CCGGGCAGGTGCCTAATATATTTACTCTCTGGTCCTTTACAGGAAAAGTTTGCCAACCTC
TGGCTTAGATGATCACCTGAGGCCAAGGAGCCTCGCCCTTGAGCACAAGACTATGTAGTC
AGTAAAGCACAAACAAAATTGGGGCTTTCCCTAGCAAGGTTGGAAAGGCGGAGAAGAAAT
GGATTTGGATAGGTAGTCAACAATGTCTGTTTTATGTTACCACACATTTTCTCGAGAAAT
TTCAATCAGCTCTCTGAGAACAGATTCATCTTTAAATGAATGTTCATAGGTAACAGCAAC
TCATGCATCAATGTTGCAAAGTGAGCTCATTTTCACATTGCTTCAG

Sequence 1413

AGGTCAAGCTTCGNTCCACGCGTCCGGGAAAAACGGGGTTACTAGTAGCCGCCCATAGCC
TGCAACCTTTGCACTCCACTGTGCAATGCTGGCCCTGCACGCTGGGGGCTGTTNGCCCCT
GGCCCCCCTTTGGTTCCTGGCCCCTTAAANAACAGGCNGGTTTTATTAAACCCCAANNNN
CCCGGNTTANAAGGGGAATTNAAAAAAGGGCCCCGGCTTTNGNAAAAAAAAAA

Sequence 1414

NCNGNCCAGGTCTACTCAAGTAGTCTTTACCCCCTACTCAAGTAGGGGGTAAAGNGTAGA
ACANGGAGTTTTGATCTGTGTTCAACATGATTGCGAACCATCAATTGAGATAACTCACTA
CCTTCAGGCCAGCCAGNTACATACTTTTGAAAAGCCAAGAGTGAAGCANGGTTGATNTTC
ATCCAATTCTTGNNCTTTTTGTTAAAGGCANNAATAAGANAGGGTGGNTNCGGGCAATCA
CTTAGCTAA

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Sequence 1415
AGGTCTTCGACCCACGCGTCCGTTTTAGATCCAAATAATGACTCATTAAATATAATTATG
TTTTAAGTATACTGAATTTCTGTTAGCTTAAAATGTTAATTCTCAGGAATGATTTTCTCA
CACTTTGTGTTGGCTAATAATAAAAGCACTGTTTTATTCTCAAAACTCCTTTTTCAAAAA
TTAGGGAGAGAGCAGTAGTGATCATTTATGTGAGCCCCTTTGAAATGATGGTGTCAGAGT
GCAGAGAAACAATGGAGTTTTGATGCCAAAAAGGTTTTTTTGCAGTAAAAGTAAAAATTT
GGAATTAGTTGGCATATAGAGGAACCCTTTTGTACCTGCCCGGGCGG
Sequence 1416
AGGTGTACAAGCTTCGACCCACGCGTCCGGGATGAGTTTGTATGTGTAAAGTGCTTGAAA
CAGTGCCTGCCACATACTAAGTGTTGGATAAGTGTTTGTTATTAAAAAAAAAAAAAAAAA
AAGTGCNGGCCGGCCGCCCGGGCAGGTCAGATGATTGCAGAATTTATGTGATTACTGGGT
ACTCTAATGGTAAGGAGAAATTAAGACCAGCTAGTTGTTAATCTTAACTTTTAGTCATTA
AGGAGAATTTCCAAGACAAAACTGCAATCCAGCTGCTTACCTAGGAATACGGCTTAGGCT
GAAAACTTCTATCGTCTTAGAAATGGGA
Sequence 1417
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTAATCCTGTGAGAAAG
ACAGGACAGAAACCACTGTGCCTATTTTACAGATACGAAAACTGAGGCACAGGTAAAGGG
GCTTGTCTGTAGTCCCATAGCTAGCAGATGGCTGGAGCCAAGACTGAGGCTCGTTCTTCA
ATGCTGAGCCAGGGCTCCTTCCGCTGCACCACAAGAACGCTAGACCACTCGCCACCAGCC
TTCTCATTCCCTCTTCCTCCATTCTAATCATTTCTAGCTGGCTGGCCTCCACAGAGCATA
GGAAAACAGCCAGGGCCGGGCACGGTGGCTCATGCCTGTAATCTCAACACTCTGGGAGGC
CGAGCCGGGTGGATCACCTGAGGTCAGGAATTCGAGACCAGCCTGGCCAACATGTTAAAA
CCCCATCTCTACTAAAAATATAAAAATTAGCCAGGCATGGTGGCGCACACCTGTAATCCC
AGCTACTCAAGAGGCTGAGGCAGGAGAATTGCTTAAATCTGGGAGGCGGAAGTT
Sequence 1418
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGNCCGAGGNNCAAAAGAGAGACAAAAGG
GTTCTCTTGGAAACAAGAAGAGTGACTCCAGATGTGGCCTGAATAATTGCCATGTTAAGT
TAATGCAAAAGATCAGAACAGGGCTACATTTGCACAGGCAGTTTCTCTCCGGGCCGTAGT
TTTCACTGATGATCACCTTTCACAGCATTTTCCCCAACCAGCATTTCACTTAGTCTTCTC
TATACCCAGCACCTCCCCCGGCACCCCCGGCAAGCCCACTATCACTTCCGACTTCCAACG
TGGCATCCGTGAGATCTGTCCACATTAGGCGAAGCAGGAGAACACTGAGAGCAGCAGGAT
GGGTTTGGAAAGAGCATGCCTCTGGAAACACAGCTTCCTGGGAATTCACATGAGGCCAGT
CCTACAGAGAGCAAGATGCACCCCAGGATTTCTTCATTTTCTAATAGATGTGGGAGTGCT
CCATTTTCCCCGACAGCGAATTTCCCCTGAGAAACGATACTAGACCCTGGGTTTGCCCAC
CTTGTAACTCTTCCTTATCTNCTCCTTTTCATCCCTAATTCA
Sequence 1419
CCGCGGTGGCGGCCGCCCGGGCAGGTACATCACCCTGCTGAGGGACATCCAGGACAAGGT
CACCACACTCTACAGAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAA
CTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCC
CAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGG
CTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACC
AACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACCATA
TTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGA
GGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATT
Sequence 1420
CCGCGGTGGCGGCCGAGGTACACTGTAAATAGCCTTTACCAAACGTGTTTGACAAGGACC
ATAATTAACATCACTTAGTGAATTGTGATAAAGAAAAAAAAGCCATGATTTATTCGATGT
GATTGGCTTGTTTTTATGTGGCGCCAAGAACGAACCTGTTTAGCAGCTGTAACCAATGGT
ACGCGGGGGAGGCGAACAATGGCGGAGCTGGGCGAAGCCGATGAAGCGGAGTTGCAGCGC
CTGGTGGCCGCCGAGCAGCAGAAGGCGCAGTTTACTGCACAGGTGCATCACTTCATGGAG
TTATGTTGGGATAAATGTGTGGAGAAGCCAGGGAATCGCCTAGACTCTCGCACTGAAAAT

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TGTCTCTCCAGCTGTGTAGACCGCTTCATTGACACCACTCTTGCCATCACCAGTCGGTTT
GCCCAGATTGTACCTGCCCCGGCCGCTCTAGAACTA
Sequence 1421
CCCCGCGGTGGCGGCCGAGGTACTTTGGGAGACCACCCCCAGCTATGGTTCCATACACTT
ANACTGCGCCCAGCTACAGNTTNATACACTTNGGACAAANTATCTGATAAAATAGAGAAA
AAAATCTTATTTACTATAGCATTACATAATAAATTTNTGAGAAAAAAATTAACCAGGGAT
GTAAAAAACCTTTACAATAAAAAATAAATAAAAAAGGAAGATCCAAATAAATTTTAAAAT
ATTTTATGTCTTTGGATTGAAAGAATAAATATTAATAAAGTGCCATATTATCCAAAGTGA
TCTATAGATTCAATACACTTCCTATCAAAATTGCAGTATTTTTTTCACAGTAATGGAAAT
TCAATTCTAAAATTTACATGAAACTAAAATAAACTTTGAATAGCCAAAACAGTCTTGAGG
AAAAGGAACAAGGCAGAAGAATATCATACTTACAATTTCAATCTATATTTGAAGACTTTA
TAGAANTAAAA
Sequence 1422
CGGGCAGGTACGATGGGAGGACAGCTTTGTAGAAAGGACATTATCCAGCTAATAGCAAAC
TTTGTGGATCCCAATCCGAGATTTCCCTTGCTGAAAGACAAGAAAGTATCTCATATAAAA
GTGCTGTAGCAAGTATTTGTATACTCCAGAAATAAGCTTCTGTAATTCTTAGCTGCCAAT
GTGTTCAGGCGTGATGACTCGGTTTCTGTTTCTCTGAACATCAATACTAGGGTCTGTATA
ATTTCAATGCATGCCACCAGCTTCATCAACCCTT
Sequence 1423
AGGTACAATCAGAATGCTGCATTCTCCAGCCATAAAGATCGCTCCCTCTTCTTTTCAAAC
ATCCCTGTCCCTCAAGGTCTAGCTCAAGACGGTCACCTTAAGAAAAGCTCCCTTTGTCGA
GCAGTGACTCCATACCAGGCCCTGCTTTAAACGCTTTATCTGCATTATCTTACTTGATTC
TCGCAATAGCCCTGGGTGGTAGGTGCAATTATTATCTCCAGTTTATAAAAGAAGATACTG
AGGGTCAGAGAAGTTAAGTGACCGGCTCAAGGTGTCACATTCAGTAAGCGTTGAAGGGGC
CTGTGTTGGTCTGTCCTTGAAGATGCCCCCTACCGACTACACTTTCAATGATTTTCTGCC
TTGAACCTGGCCCCATGACTAAA
Sequence 1424
NNCAAACCTCCTATGCTTTCCTTGGCATCGGCTACACATCATAGTATTCATTGCCTCCTT
GAGGTCATCTTGCAGCTTGGACAGAAACTCATTTACTGACCGGCTCAGCTCATTCTCTGC
CATTCGTTTCATCTCATACTCCTTTCGCTTTTCAGCATTGCTGACAATGTCCCAAGCTGC
TCGCAAAACCTTGAAGGCCTCCTCAGCCCGGGGATGATGATTTTTGTCAGGATGAACCAT
CACTGCCAGCTGTCTATAG
Sequence 1425
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTGAACTGATTTCCCC
AAATGGCTCTTTGTGCAGCCGCAGCAGCTGTTCAGACTTATGAGCAGACAGGAACTGCCA
GAGGGCAATGGTGTGTTTTAACTGGCATCTGTTTAAGGCCTTTAACACGTGAATCGTCTG
ATCACCCATTTGCAGGATGTCTTGAGTATACACATTCAGCTGCATGTTTGGATCCCCACC
AGCTGTGCTCAGAAACCCCAGAGTGACTTCTACGACAGACAGCACTTCACAGGCATCGCT
GTAGGACTGCAGCTGTCCACTGATGGCACTAATGACCGAGCTGGGGAGGGAGTCCTGGGA
AATGAAAAGCAGGAGAGGGATGTCTGTGGGCTGGGTTTCTGGCATCTCACCACCTGGTAA
GAGAGCCGAGCCCCTTCACTGCCCAAGCCACATGCG
Sequence 1426
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGGGCCAAGGCTGCAAT
CAGTGATTCAGCCGACTGCTCTTTGAGTCCAGATGTTGATCCAGTTCTTGCTTTTCAACG
AGAAGGATTTGGACGTCAGAGTATGTCAGAAAAACGCACAAAGCAATTTTCAGATGCCAG
TCAATTGGATTTCGTTAAAACACGAAAATCAAAAAGCATGGATTTAGGTATAGCTGACGA
GACTAAACTCAATACAGTGGATGACCAGAAAGCAGGTTCTCCCAGCAGAGATGTGGGTCC
TTCCCTGGGTCTGAAGAAGTCAAGCTCGTTGGAGAGTCTGCAGACCGCAGTTGCCGAGGT
GACTTTGAATGGGGATATTCCTTTCCATCGTCCA
Sequence 1427
AATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACATCACCCTGCTGAGGGACATCCAGGAC

TABLE 1

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AAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTC
ACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTG
GACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGG
CTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTAT
CAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTA
CCATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAAT
ATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTTTTCTGAC
TGTCAAGTTTCAACATTCAGGGTCTGTCCCCAACAGGCACCAC

Sequence 1428

AGGTACAAATAGATACCTTCAAGGAGAATGAAAACGGGGAATATACTGAGCACTTACACT
CGGCCAGCTGCCAGATCAAAGTTTTCAAGCCCAAAGGTGCAGACAGAAAGCAAAAAACGG
ATAGGGAAAAAATGGAGAAACGAACACCTCATGAAAAGGAGAAATATCAGCCTTCCTATG
AGACAACCATACTCACAGAGGTAAAAAGATTTCTTTTGGTGACAATTTCAGTTCATAATT
TTTAATCTTAAAAATTCATCACTTCCAAACTGGTCAGAATTTACTTCTCCTAAGCCTTGA
GGGACACAGTATCACATGGATTCTGTGTCCAGCGGCCTTAACAGGAAGATTGCTTTAGAA
TTTGGCACGAACCATGCCACTGTCTCTGT

Sequence 1429

NCNGNCCAGGTACTCNNNNACANTGNAAACTNNTCANGNGCCCATCATTGCTGGATTTGT
ATTTAACATTATGTTTCACCCAGACAACAGCTCAGAGAACTGGGCAATGGCTGCTNATGT
GTTGAGCCGGGGCATACAGGATGAAGAGGGACAATGAGAGGGAATGAATTCTATTCTANA
CACCCTGAGTTTGAGGAACCTATGGAAATGTCCAGGAGGCAACTAAATGAAACAGCCTGT
GGTAGACAGAATAATGGCCCCAAAGATGTCTACAGCCTAATCCCAGGAGCCTGTGAAAAT
GTTCCCTTCGCATGGTAAAGGGATGTGGCAGATATGATTAAGCTAAGGATCTTGAGATGG
AGAGTTTATCCAGGATTATCCAGGTGTGCCCAGTATAAT

Sequence 1430

AGGTACGCGGGACACAGGGTCCTGTGCAACANGGNGGACTAACAGTAACACCGCCACGCC
GGCAGCAAAGCTCATTTTGGTCCCCGCCCCGTTCCTCTTTCTCTTTTTAACTCCTTCCCT
CTTTGCGGATTCTAGAACGGAACCTTTTTTTAATTCTTCCCAGTAGAAACGTAGGAACAA
TTTCGTGAACGCAATCNGGAGTGCCCAACATGGC

Sequence 1431

AGGTACCCCTGTTTAACAAGGGGTAGGGGCCTTCTGAGACTGTTTCCTCTACAGAGTAAG
GGTTCGTTCAGCCTTTTCCGTGGCCTGCCAAGAACTCAACTCCATGTTCCCTCACTTCCT
GTAATTGACCTTGTCCAGGACTTTCTGACCTTGGAGAATTCACCTTTGCTCTTTCTGCTG
CTTCGTGCATTCTTCCACCAAATGTCTTAACTGACTGGGCTCCTTTCCAAACTCAAGGGC
TTTGCCAAATGCCACCAGCTCAGGGAGGCCTTTNCTGGCCATGACACTTGAAGTTGCAAC
ACTCCCCCGCAGTCTCCCGTGCCCCAGATGTAAGTTCCATGAGGGCAAGCCCTGTGCTTT
TACCACCATATCCCCAGCATCTTGAGCTGTGCCTGGCCCAAGAAATATTTGTTGAATGAA
TGAATTTAAAAGGGGATATTCATGANGGCTTACACATTCTCAATGGGTT

Sequence 1432

GGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCAGGTACTTTTTTTTTTCTTTTT
CTTTTTTTTTTTTTTTTAAGTTTTTGGGATCGTGTCTCACTCCTGTTGCGCATGCCTGTA
GTCCCAGCTACTCAGGAGGCTGAGGCAGGATAATTGCTTGAACCCGGGAGGTGGAGGTTG
CAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTTTGTCTT
CGGAAAAAAAAAAAAAAAAAGATTTGGCGGATGAAAATAACCAGAATGAAAATAGCTNGAA
AACTCANCAAGCAGGAAGCTCCCCTTCTCACCCTTTTGTTCCCTTGCCGATAGAATCAGT
CACTATTAGAAAAAATGAAAGACGCTCTGTTTAAAACAATGATGACAGCAGTACCT

Sequence 1433

GCGGTGGCGGCCGAGGTACTTCCCTTTTAAGAGATGAGTCACCGCAACTGAAACTTCTCT
ATTTCTTTTCTTTTCTGATTGTTCTCCAGAATTAGGACTAGTAACAGTCCTGAANNCTTG
TNTTTCCTTATCTAGAAAACTCAGTATCTTCCCTTCCGTTTGTCTTAAAATATTAGTACA
CGCTTTCTCAAGCCTAGCCGATTAGAAGGGGCTGCCGGGCTTCCACCACACCTCATCGAG

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GNAATGGTTTTNTGGNNAAAAAGCCCATGGAAATACTGAGCCCATGCCNCTCACGTTGNA
AAAGCCCCGTTCCTTGCC

Sequence 1434

AGCTCCCCGCGGTGGCGTAACTTATCTCATTTTAGATNAGTTTGCAAAGAGAGTTGGTGG
CTAAGGCCATAGCTTAGCCTCCTGACCCCTACCTTCCCACGTTCTTTCCAAGAGATTCTC
CTCAGGAATAACACTTGCAAGGGAGTTCCTGATGAAGTGGATTCTTGTTATTCTAGGAAT
AGGCCTACATGGTGCACTGGCAATGTGAGATTATACCTCAGCATTTTCAAAGAGCATAAA
AATCTAGAGCTGGGGGGTTTAAAACATGACAAACCTAATTTTAAGTAGGCAGACAAATAT
TTAAATTTTTCCCCTACCCTTGTTTCTACATCGGTCCATTCAGACTCTGCACCATCTGGT
TGGGCAGGTGCTACTGTGGAAGATCTTCGTTTTCGACTACCATTTGGTGATTCTTGCTTT
AAAGTCTCAATATCAGTAAACTGAACAGATTNCCACCACCCCTTGTTTTATAAATATCAC
CCTTAATTAGTTTAAGTTTCAATCTCCCCATCGGAGGCTAGTTCCTGGTGGGTCAGCATG
TACCTGCCCNGGCNGGCCGTCTANAACTAAGTGGATCCCC

Sequence 1435

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTNTTTTT
TTTTTTTTTTTTTTTTTGGAGCCAAAATTGTGTGCATTCCTACTGGGAAACACAGTGGCC
AAATCCTTTTGAATTGTTTCCTTCTAGAGACTTTAACTCTTCTGACTGCAAATCTTAGTG
TCCTGTGAGTATTAGTTGATTAATTATACTTGCTGCTTAGTGAAATACAGCCAGCTATAG
GTATCTTCTGGAGTAGCTCAACACAACTTTTCTCTTGCTAGAGTGACTCTTGCTAACAGA
ACCCAAAGATGCGCACATATACCCACAGGAGCTGGAGGTCCCTCGCATGCTCCTCTCGTG
CCAGCCTTTGCCTTACCCTTCACTCTCTCCCTCCAGGAGCCGTCGGTACCTCGG

Sequence 1436

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGATTTGTCTTGCTC
ACCTCTTACCAAATCCAAGAATGGTTTCTATCCAGTGAATGGCAAATTCATCTGATAGGT
AAGGGAATAATGGGTCAAAATGGTAGCAAACACTTCTTTCAAATTTCTACTAAAAGACTT
GCTGTTGTTTTTCTTATAAAGGGGCAATTTCATCAACATACATCTTTTAAAGGAATCTCT
AGAAATTTGAGTGACTTTTTGGCCATAATCCTGTTTGATATATTTTTGGTCAGCTGCTCA
AAACAAACATTCTCCTTGTAAGGTTATCTATCTGAAAGATACTAATTCATTTAAAGCAGC
TGCAGGTGAACAACCTAAAGATGACATGATTTGGGAGAAGAGGAAGGCAGATTACTGAAC
TGACAAGTGACCCAAAGCATAATTAGGTTTGTGCACATGGTAGCATGGAGGTTCCACACC
TACCTTCTACAGCGTATTAAAATAAGAATATTGTCTTTGAAACATCTTCTAGCACCTTTT
TAATAAAACAAAATTTCCCATCTTCAATTCTATTTTTTTCCCAAATCTACCTTTAAAAAA
TTGT

Sequence 1437

CCGCGGTGGCGGCCGAGGTACAATAAACAGGGAATGAGAACTATTTACATGGAAGTTTCT
TTCTCATGATGCGGTGGAGAAGCCTCGGCCACTTGGTTCTGCCAGATGTTCCTGGGGTTA
CTGTAAATGGGAAGGACAGGCAGAGCTAAACAAGGTAGGAGAATCGCCCCCCTTTTTTGA
ATGTTTAAAGAGTTTGCTGCAGTATGCTGCATTCCATGTGTGCTGCTTACGGGAGCCAGG
GAAACTGGGATTCCACTAATTCAATTGTAATACTTGCGGGGGACCCTGGAGTTTTACGTA
ACATTTTGATTTGGGAAAAAAAAAAAAANAAAAANANTGTTCCTGCCCGGGCG

Sequence 1438

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGCCAGGC
ATGCTCCTGCCTTGGGCAGAGTGTATATGTGTGAGTGCACCTGCCCTTCCCACAGCCTAG
AACGTTCCTCCTCCAGACAGCACATATGGCCTGCTCTCTCACTTCCTTAAGGTCTTTATT
CAAAAGTGACTTTCTCAGTGAAGCCCTGTCTGCTCACCCTGCGTAAAATTTCAGCTCTTC
TTTCTATCTCTCTTCCCAGATTTTTTTTCTCCTTCATGTTCGTTGGTGTCTAAGGTTTAT
CATCTATTTCGCTAATGGTCAGTAGAATGTAACCTCCACGTAAGCAAGGAGTTTTGTCTG
TTTTGTTCATGTCTATGTCCTTAGTGCCTGGAGCATTCCCTAGTATGCAGTAGGTGCTCA
ATAAATGTCAGTTGGATTAATGGCTGAAAGAAAGGTCACCGCTATAAGGATGGAGTCAGA
GAACAAACACAGTTAATTCCTGGTCCACTGTTTTTGCTTCCACTAAATTGTATTTGGTCT
ACGGCTTCTCCGCTTGCCCTGGAACCCTGCTCAGAACACTGCTCCCTTCTCCTTCTTCTT

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CTCCCTCCGGATAAATTCT

Sequence 1439

CCGGGCAGGTACCGCGGGGGGCCGTGGTCAGAGCGAGCTTCGGAGAAGCAGTGGTGGGTT
CCATGTGATGGTGGAGTAGGAGGCAGGTCTCCGCGGTTCATCTGTGTTGCTCTAAATGAC
ACTGTTTCATTATTTTGATGGCTGGAGAATATTTCCTAAGTGTATGTATATGAAGAAGTT
TCTTGATCTCTTTATCTGTGGATGAACAGCTACTTTGAAACATATGGTACCTCTGTGGTC
AGACCATTTGCCAAGCTTGTGAGGCCTCCTGTTCAGGTATACGGTATTGAAGGTCGCTAT
GCCACAGCTCTTTATTCTGCTGCATCAAAACAGAATAAGCTGGAGCAAGTAGAAAAGGAA
GTTGTTGAGAAGTAGCACAAATCCTGAAGGAACCCAAAGTGGCTGCTTCTGTTTTGAATC
CC

Sequence 1440

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCANGGTACGCGGGTGCT
TTCATAGCCGCGGACACAACTTGGGCCCACAGTTAACCGAGGAGGAAGGCAGAGCGTGCT
GAGCAGAGCACCAAGGAAGAGAGCTCGGCTAGCCGGGAAGGTCCGAATGGATTTATTTGG
TGAGGCCAAGGAACCCACTGCCTCCACGGTGTTCCTCCAGGAGGCTCCTCCCTTCACTAA
GGCAGCAAGGAGTGCACTGGTGAGGGGAAGAATTGTTGTCATCCTTTCTCTACGACTCCA
AGAGAAACTTTATACTGGAGGAAGAATATTCTACCACTTTGGGATGCTTCCAAAGAAATG
GGATACCAAAGGAGTGAACTTCAGGTCATTGGAAGTGGCCAAGCTGGAGGCGACCTATGG
AGACATGACCTTCAGTTCTTCCTGAGATCGATAAAGCAAAAAAAAAAAAAAAAAAAAGT
ACCT

Sequence 1441

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGATATTGTCAATGCGCAACATGGAGAG
ACTTTAAAACAAATGCTAGGGATTAGAGTATAGATCAGATAGCTGGCAAATCTATAGGAA
GGGAAAAGTAATTTTAAACACACAGCATTTGTTTCCTGCTGCTCTATCACAATAGCTAGG
TTTTTAAATAAGTAGGCTTTATACCAAGCCATAAAAATGAATTGCTGGGGCTCTTTGGGA
CTAGGGAAGGCGGGAAATTTTAGATATTGCTGTTGGCTTAGTGAAAATGCATGCTTACCC
GGTCACCTGTGGCTCCAGCAGGACCAGGGGCACCTACAGCACCAGGAGCACCCTAGTACC
T

Sequence 1442

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCTTATTACATA
TGATTTTTATTAGTTTCTGGAGGCAAATTTAATTTTTATTTTAAAATCAAAATCTATTTT
AAAAGAAATAGTTCTCAAAAAGACAACGATGACTGGGTGTGGTGGTGTGTGCCTGTAGTT
CAGGCTGCTCGGGAGACAGAGGCAGGAGAACCACTTGAGGCCAGTTCAGTCTAGCCTGGG
TAACATAGCAGGACCCTGTCCCTTAAATAATAAAAAATTTAA

Sequence 1443

CCGCGGTGGCGGCCGCCCGGGCAGGTACTAGGGTGCTCCTGGTGCTGTAGGTGCCCCTGG
TCCTGCTGGAGCCACAGGTGACCGGGTAAGCATGCATTTTCACTAAGCCAACAGCAATAT
CTAAAATTTCCCGCCTTCCCTAGTCCCAAAGAGCCCCAGCAATTCATTTTTATGGCTTGG
TATAAAGCCTACTTATTTAAAAACCTAGCTATTGTGATAGAGCAGCAGGAAACAAATGCT
GTGTGTTTAAAATTACTTTTCCCTTCCTATAGATTTGCCAGCTATCTGATCTATACTCTA
ATCCCTAGCATTTGTTTTAAAGTCTCTCCATGTTGCGCATTAACAATATCCTAATGCACT
GAGGCTTCTCAAAGCCTTCAATTATTACCAAAAAAAAAAAAAANNTTTNNNAGGTACCT

Sequence 1444

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAGACCAAT
TCCTTCCTAACCTGGATTCCACTGTCCTTGGTGAAAACTACTTTGATGGAACCTACCAGA
TGCTTTATCTTTTGGTTAAAGGAACTATACCTGTNGAAATTCACACTGCCACAGNGATAT
TTGTTTCTTTCCAATTATNTGTTGCAACANAAGATGACTTTTATACCTCTCACAATCTGG
NTAAAAATCTTGCCTTGTTCCTAAAGATACCAAGTGACAAAATCCGTATCAGCAAAATAA
GAGGGAAGAGTCTGAGGAGGAAGAGATCCATGGGATTCATAATTGAAATAGAGATTGGAG
ACCCTCCTATTCAGTTCATAAGCAATGGCACCACAGGTCAGATGCAGTTATCTGAACTCC
AGGAANTTGCTGGTTCTCTTGGACAAGCTGTNATTTTAGGAAA

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Sequence 1445
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGAGTCACTCCTGCC
TTCACCATGAAGTCCAGCGGCCTCTTCCCCTTCCTGGTGCTGCTTGCCCTGGGAACTCTG
GCACCTTGGGCTGTGGAAGGCTCTGGAAAGTGTAAGTTGGAGTCACTCTGGTCTAATCTG
GGCTGCAGGGTCAGAGGTGGGGTCTCCTTGTGGTGTGGGTGTGTCCCCTTCTGTAGGCTC
TGATCCCTCAGCTTAGTTTCGGGAGACCTCCCTGAGGGTGGAATACATGTCTGGCTGGGC
TCCAAGGTTTGTGTGGCAGTTTGAGCTTCTGGAAATGCTTCCTCTATGCAGCCATGCTGT
CAGCCCAGGTCCCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCATACTNTGCCT
TCTTTCTTTCACCTGTCTGCGACTCTTCAAAAAAAAAAAAAAAAAA
Sequence 1446
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTTAATCCAAGACAA
AAGAATAGCTCCTTTCAGAGTTCTCATCATTTCTTCACCCCAGCCTTAATGGGTATATTC
CTTTTCCCCAGGTGTCCAGAGTTTTCCAGAATTGTCCCAAGGCTCAGTCCACACCAGTTC
TTCTCCAGTGTGCTCTCCTGAGAGGCCAGGCACACTCAACAATTATCTAGATGAGTTCCC
ACTTCTTTCCAAGTGAAGGTTCTGCTATCCTAGCATAGTCAGAATAAGTTAAATTATGTC
TCTTAAGAGGCACTGTTCCACTCCTTTTCAAGGNGTGTGGCATATTTGAAATATGTGACT
TAAAAGTCTACAGTCTCTTACCAAAAGCCTTGGGCCAAATACATGTCAAAATTCAGAATT
TTNCAGATTTTAGAAAAGTGACCCATATACCATACATTGCA
Sequence 1447
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCACCCTGCTGAGGGACA
TCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCT
GCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCT
CCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCAT
TCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCAT
CAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCA
CCAACCTACCATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACA
AAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATT
TTTCTGAC
Sequence 1448
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATTGTCGTTTTTATTCCT
CTTATTGGGATATCATTTTAAAAACTTTATTGGGTTTTTATTGTTGTTGTTTGATCCCTA
ACCCTACAAAGAGCCTTCCTATTCCCCTCGCTGTTGGAGCAAACCATTATACCTTACTTC
CAGCAAGCAAAGTGCTTTGACTTCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACAAAAC
TGTTCTTTTGCATTTTGCCGCTGAGATATGGCATTGCACTGCTTATATGCCAAGCTAATT
TATAGCAAGATATTGATCAAATATAGAAAGTTGATATTCAACCTCACAAGGGCTCTCAAA
GTATAATCTTTCTATAGCCAACTGCTAATGCAAATTAAAACATATTTCATTTTAACATGA
TTTCAAAATCAGTTTTTCATACTACCCTTTGCTGGAAGAAACTAAAAATATAGCAAATGC
AGAACCACAAACAATTCGAATGGGGTAGAAACATTGTAAATATTTACTCTTTGCAAACCC
TGGGNGGTATTTTATTTTGGCTTCATTTCAATCATTGAAGTATATTCTTATTGGAAATGT
ACCTGCCCGGCCG
Sequence 1449
CCGCGGTGGCGGCCGCCGGGCAGGTACATCACCCTGCTGAGGGACATCCAGGACAAGGTC
ACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAAC
TTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCC
AGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGC
TCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCA
ACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACCATAT
TCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGAG
GATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATT
Sequence 1450
CCGCGGTGGCGGCCGAGGTACAAATTGNCGTTTTTATTCCTCTTATTGGGATATCATTTT

TABLE 1
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AAAAACTTTATTGGGTTTTTATTGTTGNTGNNTGATCCCTAACCCTACAAAGAGCCTTCC
TATTCCCCTCGCTGTTGGAGCAAACCATTATACCTTACTTCCAGCAAGCAAAGTGCTTTG
ACTTCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACAAAACTGTTCTTTTGCATTTTGCC
GCTGAGATATGGCATTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGATATTGATCA
AATATAGAAAGTTGATATTCAACCTCACAAGGGCTCTCAAAGTATAATCTTTCTATAGCC
AACTGCTAATGCAAATTAAAACATATTTCATTTTAACATGATTTCAAAATCAGTTTTTCA
TACTACCCTTTGCTGGAAGAAACTAAAAATATAGCAAATGCAGAACCACAAACAATTCGA
ATGGGGTAGAAACATTGTAAATATTTACTCTTTGCAAACCCTGGNGGTATTTTATTTTGG
CTTCATTTCAATCATTGNAGTATATTCTTAT

Sequence 1451

CCCCGCGGTGGCGGCCGNGGNACAAATTGTCGNTNNTATTCCTCTTATTGGGATATCATN
TTAAAAACTTTATTGGGTTNTTATTGTTGNTGTGGGNTCCCTAACCCTACAAAGAGCCTT
CCTATTCCCCTCGCTGNTGGAGCAAACCATTATACCTTACTTCCAGCAAGCAAAGTGCTT
TGACTNCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACAAAACTGGTCTTTNNCATTTTG
CCNCTGNGATATGNCATTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGATATTGAN
CAAATATNGAAAGTTGNTATTCAACCTCACANGGGCTCTCAAAGTATAATCTTTCTATAG
CCAACTGCTAATGCAAATTAAAACATATTTCATTNTAACATGATTTCAAAATCAGATTTT
CATACTACCCTTTGCTGGAAGAAACTAAAAATAT

Sequence 1452

CCCCGCGGTGGCGGCCGAGGTACAAATTGTCGTTTTTATTCCTCTTATTGGGATATCATT
TTAAAAACTTTATTGGGTTTTTATTGTTGNTGTNGGGNCCNTAACCCTACAAAGAGCCTT
CCTATTCCCCTCGCTGTTGGAGCAAACCATTATACCTTACTTCCAGCAAGCAAAGTGCTT
TGACTTCTTGCTTCANTCATCAGCCAGCAAGAGGGAACAAAACTGTTCTTTTGCATTTTG
CCGCTGAGATATGGCATTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGATATTGAT
CAAATATAGAAAGTTGATATTCAACCTCACANGGGCTCTCAAAGTATAATCTTTCTATAG
CCAACTGCTAATGCAAATTAAAACATATTTCATTTTAACATGATTTCAAAATCAGTTTTT
CATACTACCCTTTGCTGGAAGAAA

Sequence 1453

GAANCCCCCTTTNGACGAANANNCGCGAATCGNGAGCTCCACCGNGGNGGCGGGCCCGAG
GGGGACNANGANTTTTCTTGNNCNTTTTTTTTNNAAAAACNGGNGACTATTTAATCCATC
TAAAAATACAAATCAGGNAANGGGGGGAACCATAGGAAAATCCTCCACCTNTAACAAGAG
CCGAAGNTACNGGGCTTTCTGCTTGCTCCAAANAAATCCCAAAGGGCTTGGATAGTTTGN
GGAANGGGGAATTATCTGTGTCTTCAAACTAACTCCCAAGGATACCTCAAAGGACATTAA
AGGTNTACCACCACCATTCTGGGGGAAGAAAAAGGGGGGTTTCTTGCCCCTTGCTTGAAA
AGCCTTANAAATNGGGGGAAGCCTCCAAATNGCCNTTNGGGGGNGNAAAAAGGGGNNCCC
TNTNAATTTTTTNAAAAAAAAAAAAATTGGGTTCCAAAAAANAACCCCCCTTTNGAAAGG
GANCAAANGGGGGGGGGGCCCCCTNCCCCNAAGGCNAAGGGGGGGGGCCCNNTTNGGGG
GGGCCNCNTGGGGGGNNGGNNCCCCAAAAACCCCCCTAAACAAAANNTNGGGGGCTGGGC
CCNTAANGAGGAGGGCCCCNCCAGAGCCCAAAANTTNGGGGTTTNNACCCCANNNAAAAT
TTTGGGGGGGTNTTTTTTTTTACCCCCNTTTNNGNNCCCCNCCCCCCTTGGGGGGGAAAA
AAAACCCTTNAAAACCCCNTTNTTTNAAAACCCCCCCGGGGGGGGG

Sequence 1454

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGCAGGTACTTTNTTTTTTTT
TTTTTTTTTTTATACCAGATTTTAAGGAAAGACTGCTTGCTTCTGANAAAGAATTCTCGG
AGTTGATTCTCTGCTCCATTTGCTCCTTTCTCAACCTCTTTAGTCCTCGTTCTCTGCAGT
AAGAAGCTAGTGACAACTGGAATTTAGCTCCCAGNGGGCTTTCTTCCGGGTGGNGCCTGG
ACAGGCTGCTCCTGCTGCTAAGGCTTCTGGAGCTGTTATTGAAGATGTCAGCTTCTGCCA
CTGNGGTCTGCTTTTTGGAGTCTGCATTGGTTTTGCCTCGATCTCTATCATTCTTCTCAT
TATTTTCATGAATGAA

Sequence 1455

CGAGGTACTGACCTCGTNTGTCCCTTCCCCTNCACCGNTCCCCACAGCTTTGCACCCCTT

TABLE 1

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TCCTCCCCATACANACACNNNCCATTTTATTNTTTGGGCCATTACCCCATACCCCTTATT
GCTGCCAAAACCACATTGGGGGCTTGGGGGGGGGCCAAGGGGCCTTGGGCATGGGACCAA
GGACCACCTCCCCCTACCCATATCCCTCCCCGTGTTGTGGGGTTTNGGGGAAAAAAACCT
TTTTGGTTTTTTTTGGGGGGGGTCTTTTTTTTTCCTCGGAAATTAAANAAAAAAAGGATT
NCTTACCTACAAGAGAAANAAAGAAAAAAAGGGGTACCCTTGGCCCCGGGGGCCGGGGCC
CGGCTTTCTTAAGGAACCTAAGGTGGGGAATTCCCCCCCCGGGGGCCTTGCCAAGGGAAA
TTTCCGNATTATTCNAAAGGCCTTTAATCCGGAATNACCCCGGTNCGNACCCTTCGGAGG
GGGGGGGGGGCCCCCGGGGTAACCCCCAAGCTTTTTTGGTTTCCCC

Sequence 1456

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGATAAGACCC
TGAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAG
AAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGA
ATTTCACCATCACCAACCTACCATATTCCCGGGACAAAGCCCAGCCAGGCACCACCAATT
ACCAGAGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCA
TCAAGAGTTATTTTTCTGACTGTCAAGTTTCAACATTCAGGTCTGTCCCCAACAGGCACC
ACACCGGGGTGGACTCCCTGTGTAACTTCTCGCCACTGGCTCGGAGAGTAGACAGAGTTG
CCATCTATGAGGAATTTCTGCGGATGACCCGGAATGGGTACCTGCCCGGGCCGGCCGCTT
CGGCTTTAGAACTAGTN

Sequence 1457

GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGTCCAAATTTTAAGGAAAATGA
GTCCCGCAATGAGTTTCCTCATGCTTCGCCTGTGCGTGGACCGGNCAGCTTCTGGGTGTG
ACTGGAGCAGGGCTTGTCTCCTTCTTCAGAATCACTTTGCAGGGGTTGGCAAAGCCGCTC
CCATCCACGTACTCTCTGGACACAATAATTTTGGCCTATTGCCATCAAATGCCCATTTTC
CACTGCTGGAAGCAATGTCAAAAAAGGGCTGGCCCAAAAAAAGACCCAGAGCTGTCAATA
CAACACTGGAGACAGATGCAACTGAATAAACCCTGTTTTACCCAATTGCACTATTTGGTC
CT

Sequence 1458

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGCAGGTACTGGAACAGGGATAA
GTTCTTGGATAAGGNGCCAACATACCTATAAAAGCTGATTTTTGAGTAAATTATTGATTC
TAACATATGTAATGGATTTGGTGTGATAATTTTCTGATCTTTAACTATAAGTGACTTTTT
ATTCTCCACCAGAAAAGATAAATGACTGAGAATGTAAGTCTGCGCTCTGATTAACACAAT
GGAGAAACGGAAAAACTATCTCTGTTAAAAACTGATTCCTGTCATTCTTCTGATATCAAA
TAAGAGGAAGGAAAATAAACTTTTTGTGTGTAGATAGAAAAACATACCTGAGGCCAGGTG
CAGTGGATCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGCAGATCAGCTGAG
GTCAGGAGTTCGAGACCAGCCTGGCCAACATGGNGAAATCACGTCTCTACTAAAAATACA
A

Sequence 1459

NGGGCGAATTGGAGCTCCACCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCACTC
AGGGAGCTCAGATTTTGAGACAGTAGCTGGCCGATGCTCCCAGCTGAATAAAGCCCTTCC
TTCTACAAAAAAAGAAAAAGAAAAAAGAAAACAGGATATCTGAAATTAAGACTGCAGGAT
GGAGTAGTTTTCTGAAAATGACAGGGTCCAAGGTGTGACNCACCGGGACCAAGTGGCTGA
ACTGGAATGAAGTTAAGAAGCCAGTAAGAAAACATCNCGGATAATATGGTGGATCAGTTC
AACAGNAATGACATTATTTCACCCATGGTCCCCAAAGGGAGGGAGATGACTGGAGNATTT
CAAATTCTTCAAGGCAAGCCCTCAATGCCAGCCCAGAGGATTTTAANGAGGGGCCTATTG
TTGTTCCCAGAAAGGAGGACTCTGNGGCCAAAACCGCCAAGAATGGGATTTCAAGAATTT
ACTTCAAAATTCCTGTCAGGATTTCTTTAACCCTGGGTGGGGCTTATACCCAAAACCCCA
AAAAAACTTTTAAGCCAGCCTTCNTACTTTTTGGCTTAATTTTTCTCCCTAAAGCCCCAA
CCCTTGGGCNTTTTTTT

Sequence 1460

ATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGGCAGGTACTCAGAAATCCTTCCCCGAATT
TACAGCACAGGCAGGATGACCTAAGAGGCAGTTTACTTCCCTGAGACCCACAGTTGGGCT

TABLE 1

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GTTCTGGAAACACATCTGTGAATCATAGCCAATTGCCACAGAGAAAACAGAACCAAGCCT
CCGGTGAGGCCACTCCACCCCAGAGAAGTCTGCAGAATTCCAAGGACTCGGATTGGATGT
TCAGAATTCAGCAACTGGAAAGTCCTTAAAAACAAACAGGCCAAACCAAATCAATATTGC
TGTTTCTAGATGTCCCTTCTGTGGTTGAGCTAGTTTTACAGAGATAAATATATTAAGACA
AGGAGGTGGGGGTGTTATATGATCAATGATAGCCATTTTGAAAGAGAGGGAGGAGTACTT
TTTTTTTTTTTTTTTTTTTCCAAGCACGTGCCACTTTATTGAATGACACTGTAGACAGGT
GTGTGGGTATAAACTGCTGTATCTAGGGGCAGGACCAAGGGGGCAGGG

Sequence 1461

AGGTACGCGGGGCTCAAGAATAAGCTGAAATATGGCCAGACTATCAGGCCCATTTGTCTC
CCCTGCACCGAGGGAACAACTCGAGCCTTTGAGGGCTTCCTCCAANCCTACCCACTTTGG
CCCAGTCANACCAAAAAAGGGGAAAGNAGGCCTGGCTTCCCCTTGNCAACAAGGGNATTA
ATTCCAAAAAGNCCTTCCTGGTTTTTTGGNTGGTNCCTTGAAGGGNAAGGGNAGGAAAAA
AAAAGNCCTTGNAACCTTCGGGGAAGGGGNAGGGTTCCTTAACAATTCAAAAGGAAATTG
GGGGGGGGAATAAAAGGAAAAANGGGGCCAAGNCCTTGGTTTGGAAGGAAGGNAGGTATG
GCTTCAAATTAATGGCCCCCCAANGGCTTAATTGAACCAAAAAAGGGTNCAAAAGGGGAA
CAATTCTTCAANAAGGGGTGGGGTTCCACCCCCCCNTTCGGGGTTTTCCCCTTTTTGGTT
ACCCCTTGGCCCCCGGNNNCCGGGCCCNGCCTTCCTAAGAAANCNTAGGGTTGGGGNANT
NCCCCCCCCNGGG

Sequence 1462

GCGGGCAGGTACATGGATGGGAGCAGCTTCACCAACCCCTGCAAAGTGACTCTGAAGAAG
ACGACAAGCCCTGCTCCAGTCACACCCGGNAAGNCTGACTGNNTNCCACCGCNACAGNCT
GAAAGGCATTGAGGGNAAAACCTCAATTCNTCGGGGNACCTAAATTTTTTCCCCTTTAAA
AANATTTTTTAAGTAACCTTTGGCCAACCAAGGTAAAGGGGGAACTTTTCCAAAACNTNG
AACCCCTTTCCCTCCAAGNATTTGNAAGGAAACNTGTTNTTTCCCAGGTTAATTAATTAC
CNATTTCCAAAAGGTTCCAACCTTTNGGAANGGGGTTAAGGGGGAAACCAANAAAAAATT
TTGGCTTAACCAAGGTTCCCTNAATTAAAAATTTTTAAAANGGGGGGTTTTTTTTTTTTA
TATAAAAAAGGGNGNTGGTNTNANNCCCCTTTTNGGNGGTCCCCCCTTTTTTTTTTTNAA
GAAAAANCCNTAAGGGGNGGGGGAAATTCCCCCCCCCCCCGGGGGNNCCNTTGGGCCAAA
NGGGAAAAATTTTTCCNGNATTTAATTTCCAAA

Sequence 1463

AGGTACGCGGGGAGGCATTGAGGCAGCCAGCGCAGGGGCTTCTGCTGAGGGGGCAGGCGG
AGCTTGAGGAAACCCGCAGATAAGTTTTTTTCTCTTTTGNAAAGANTCCCNCNTTTAAAA
TAACCAAAACCTTACCTTTAAAAAAAAAATTAATTANGTTCCAAAATTAANGGGNTTTTA
ACCTTNAAAAGGNAATTAATTTTTNGGCCTTTTTAAANNCCGGGTTTTTAAAAAGNGTTT
TTTTTTTTTAAAAACCCGGTTTAAAAATTTTTTTTTTAAAAATTAAAGGCCCTTTTTAAA
AGNNAATTTTTTTTTTTAAAGGNGANGGAAAAAAAAATTTTTTTTTTGGNANAAGTGAAA
ANCTTTTTTTNTTAAAAAAATNTAAANNTTNTTTAGTCCCTNNTTTTTNTAANAGGNGGG
NAAATGGGNGGGGTNNNANANAAGGAATTTAAAAAANTGGGNTNTTTTTNTTTAAAAAAA
AAACCAAATTTTATCCCTTGNTNAGGGGTTTTTTGGGNAAGNNAATATGGAAAAAANAAN
CCTTTTTNCTT

Sequence 1464

TTTGAGAAGCCAGCGCTCACCCACCCGGGGTCTCTGTGCATTGACCTTTGGGTGCTGACT
TGGAGAAAAGCACAAACACGACCAGTCCCATCCTGGGCTCCCGNNGGCCGNCCTTTCTTT
CCTAATNCTTACCGCCATTTTGGTATTCCGGACCTGGCCAATTTTAGGTTTNGGGACCTT
AAAAGNAATTGGAATTGGAACCTTCCAAGTTTTTTAAAAAAGGGGGAAGGGGAAGNAACC
NAAANATTNNCCTTNGAACCCTTGGTTCCTTAAAAGNCCAAANGGAAATTGGGGCCCCCC
AANAGNCCCTTGNNNGCCAAAAAGGNAAAAAAAAAAAAGNNCCNAACCCAACCTTTGGNN
CNAATTTAACCCNAATTTAAAGGGGGGAAATTACCAAGGAAAAGGGGGGNCCAAGGAAGG
CCTTTTCTTGGGCCCCTTGNGCCGGGGGGAATTTCCTTNGGCCAAAAACCCAATTTTTTA
ACCCANTTTTTTTTGGGTTTTTTTTTGGGCCCCCTTTGGCCCAANAAAACCCTTAACCCC
CCCCGGGCGGGTTNACCCCCTTTCGGGGGGGCCCCNGGCCTTTCCTTAAGGNAAAACCTT

TABLE 1
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AAAGGNNTTGGGGGGNAATTTCCCCCCCCCCCCGG
Sequence 1465
AGGTACTTTATTTTTCTTTTTTTTTTTTTTTTGTGGATGGGGACTTGTGAATTTTTCTAAA
GGTGCTATTTAACATGGGAGGAGAGCCGTGTGCCGGNATCCAGCCCAAGCCCNCCCGNTT
CACTTTTTCNCACACNCTTTNTTTTTCAACCCTTGGCACCTTCTGGGGCNTTTACTTTAA
AAGNGGNCCCCTTTNTTTGGNCATTACATTAGCAGCGGAAAACANCCTTTTANTTNCTTT
CCCCNTTNATTGGNGAANANAACCTCCCATTTTNTTTTNTTCAAANAAGGAGCATTNGNC
AAANANCTNCCCAAATNTNNCCTTNNACCACNGNGGGNCNNTANNCCACNNTNCTANCTT
NAGGNGNNGCCATTTGGGTTNCNCCCTTTGNNCCNGGAANTTCTNCCCTTTTCCNTTNGN
TTTTNTCCCCNCNGGGNNGTTTTTTTCCAAGNGAAGNGANCCCANAATCCTTTTTTNNNN
CNCNAANAAAAANGTTNAANCCNAAAAAAAAGNGCCCAAGAGTTTTTTTTTTTTTTCCCC
CCCCCC
Sequence 1466
AGGTACACTGAAACATAAATCCGCAAGTCACCACACATACAACACCCGGCAGGAAAAAAC
AAAAACAGCAAGTTTACATGATCCCTGTAACAGGCCATGGNNCTNCAANNCTTCAGGAAT
GCCTTNCCNTCNCATTCTGGCCCAAAGNTGGTTGTTTNCNTGGGAATNACCAGGNAGGCC
ACCAATTCGGTGGGGCCTNTCCTGGGGGGNGGTTCAACCAACCTNCAAGNCTTTTAAGGG
CTTGGTTGGGGGTTCCCCACCANGAGGCCACCTTNCAATTCTTGGGCTTGGGGGACCTAA
TTGNGGNTGGGGTTGGGNTTGGGACCTTCCTTAACCTTCCAAAAGTAAGNCAANAAGCNT
GTTTAACCCAAGCCAACAATTTNCAAAAAACCAAGGTTGGTAATTTGGNAAACCANTCCT
TTTTTTNAAAAATNATTCCAAAAAAGTTNGAAGGAAAAANCCANAGGAAANGGGNCAAAC
CATTAAANTTAAAATNGGTTTAATCCAAGNAAAAAAG
Sequence 1467
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTATAACTGAAGCTTTATCTGGAGTGGGGGAA
TGGGGGTGTGGTCAGTTGGGGCACCCAAAGACAAGCCATGCCNCCNNCCCNGGAAANGCC
GCNCAGAGGGTTCCCTTGGGCAATNTGGTATNTACTGGGGTATCCTTCTTNTGCGGTTNC
TTTCGGGNCAATTTTTCCGATNNCCACCTTTNNCCTTACAAAGGGNCCCCAANNNTTGNC
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NAAGNCCTTNGNAAGNGGTTATTGGGGAGGACCATTTTCCTTTCCTTTNCCCCCCCCCCA
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CAAANNNCCTTTTTTCCAAAGGGGGGGGCCCTTTTTCCTTTCCTTTAANCCCAAACCTTT
TTNGGAAATTNGGGGGGGGGGGCCCTTGGGAATTTGGAAAAAANCCGGNTTNGGCCCGGN
CCTTTGGGTCTTTGGTTTTCCCCAAAAAACCCCCTTNGGGCCAAACCCCCCT
Sequence 1468
AGGTACGCGGGTGGTGAAAAAAGAAGTAGAAATCGTGGCCCACCTCCCTCTTGGGGTCGT
CGCCCTCGAGATGATTATCCGTAGGAGGGAGTTCCTCCACCTCCNNCGCCACAATCTTCC
CAAAGAAAGGGGAGAAAGTCTTTTCTTCCTTCGGCAGNCNCGNGTAGTCNAGNGGTTCCC
CCTTTTTTCCTTAGGNAGGCATTTAAGGGGNAAGTAAAGGAAGGNAGGAAGNAATTCCGG
CCTTGGTTCNTTCGGGGGNAGTAAGNAAAAATTCCACCANAGTCCCGGTCCCCGGAATTC
CCTTTTCNTTCTTAAGGGGGTTCCTTCCGGTTAAGGTTCCGNAATTCCTTAAGGGGTTNC
AAAATGGAAAAAGNGAAAAATTAAGGAAAGNAACCAAGGTTTTTTGGCCAAAGGAAGAAA
AGGTTGGGGTGGTTAACCCCTTGGCCCCCCGGGGGGCNGGGCCCCGGCTTTCCTTAAGAA
AACCTTAGGGTNGGGAAATCCCCCCCCCCGGGGGGCCTTGGC
Sequence 1469
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTATAACTGAAGCTTTATCTGGAGTGGGGGAA
TGGGGGTGTGGTCAGTTGGGGCACCCAAAGNACAACTCATGCCTCCTNCNNNGAAAGGNC
GGCCCAAGGGTCCCTGGGCCAATTTGGTTTTCNTGGGATTTCTTCTTTTCGGNTACATCG
GGNCAATTTTCCGNTACACCTNCNCCTNCNAAGGGNCCCNAGGTNTGGCTTTCNCNNCGC
GCAANAGNTNGTNCCCTTTTCACCCGGAATGGAATGGTTAAGACCTTGNAAGNGGATTTT
GGGNGGACCTTTTNCATTANCTTACCCCCCCCAANGTAAAAAAATTTCCGGTNNTAAGGG

TABLE 1

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GNAAGAAAAGGAACCCNCCCAACAATTGAAGGNGGTTAAGGTTGGGTATTTTCCTTTTCC
TTTCCCCCTTTCCCCAAAGGCCNTTTTTCNAAGGGGGGGGCCTTTTTNCTTTCATTAACC
AACCTTTTTGGNAATTGGGGGGGGGGNCCTTGGGAATTGGGAAAAAACCGGTTTNCCCGG
CCTTTNTCTTTGNGTTCNCCAAAAACCCCCTTGGGCCAAACC

Sequence 1470

AGGTACGCGGGTGGTGAAAAAAGAAGTAGAAATCGTGGCCCACCTCCCTCTTGGGGTCGT
CGCCCTCGAGATGATTATCCGTAGGAGGGAGTNCCTCCACCTCCNCCNCCNCNATTCTTC
CCAAAGAAAGNGAAGAAAGNCCTTTCCTTCTTCGGCAAGNCCCNGNAGGCCAGGGGNTGC
NCCCTTTTTTCNTAAGGAAGTATTNAGGGGGAGTAAANGTAAGTAAGGAAGGAATTCCGG
CCTTGGTTCNTTCCGNGGGTAGGAAGGAAAAAATTCCAACCAAAGGCCCCGNTCCCCGGA
ATNCCCTTTTCCTTCTTNAGGGGTTNCNTNCGGGTTAGNTTCCGGAATTCCTTAAGGGGT
TCAAAATGGAAAAAGGGAAAATTAGGGAAAGTAACCAGGTTTTTTGGCAAAAGGAAGGAA
AGGTTGGGGGTTGGNTAACCCCTGGCCCCCCGNGGGCGGGGCCCGGCTTCCTAAGAAACC
TTAGGGTGGGGAATCCCCCCCCCGNGGGGCCTTGCCAAGGGGAAANTTTTCCGNAATTAAT
TCCAAAAGG

Sequence 1471

AGGTACAAACGAGTCCTGGCCTTGTCTGTGGAGACGGATTACACCTTCCCACTTGCTGAA
AAGGTCAAGGCCTTCTTGGCTGATCCATCTGCCTTTGTGGGCTGCNTGCCCCCTGGTGGG
CTNGCCTGNCCCACCCAACCAGGCNTGGCTTCCCTGCCTTGGCCTTGGCCTTGGCAAGGC
TCCCCCAGGCCTTAAAGGGGTTTTGGNAAAGGNCNCCAAAGGGGAAAAGGAAGGTTCCGG
GAAGGGGAANTTCCNGGGAACCGAAGGGNATTAATGGGGGGAATTTTTTGGGGTCCTTNC
TTTTTTGGACCNTAAAAATTCNAACCCCAAAAAAAAAAAAGGNCCNAAANCCCCCCAAAA
ANCCTTTTTTAAGNCCCCAAGGTTTTTTTTAATTTTTTGGCCAAAAAAAAACCAAAAGGG
GGGAAAAAAANTTAAAAAAAAGGGGGGCCCTTTTAAACCCTTTTTTCCAANTTANANTAT
AANAATAAAATANNANAANANNNNNTNNGNGGGTTTAACCCCCTTTGGGCCCCCCCGGGG
GGGNCCCGGGGGCCCCCCCGGGNTTCCTTAAAGGAAAAACCCTTAANGGGTNGGGGGGAAA
TTCCCCCCCCCCCCCCCGGGGGGGGCCCTTGGGCCCAAAGGGGGAAAAAA

Sequence 1472

AGGTACAGAGTCTTTTGCTTCCTCCCACCCCTAGGGGGAAAAACTGCTTTGTGCTTTGGG
AAGTTGTCTCTGAAACCCGGGGACAGAGGACCGCAGGACAGANCTACCGNCGGGGAGNCN
CGNGGNAGGGAATGGGGGCATGCAAGTCATGNTGAGAAGNGGAGNGTGATCTTACAAGCA
NNGGAAGNACGTATGNGGTCCCGNGTAAGNAAGTCCANGTAAGNGNCCCCTTGGAAGNAA
AGTCCCAAGTANCGACCAGTNTTGNGNAGTAAGTAGGGTGNTGGGNAAATAGGTTGNANC
CCATNTCCGGGGGGTCCTTGGGGGGNCCTTGGGTAAGNCCNCGNCCAACCAACTGCTTCTT
CCTNCCCCAATGGTTTAAAAAATTAGGCCACCCCTTTTTTAAGGAAAAAAAAAATTTTTC
CAACCAAAAGGGTTCNCNCCCAATTCCCAACCATANAAAAAAAAANATAGATANACACAN
AAAGGGGAAAAGGTTACCCCTT

Sequence 1473

AGGTACTGGTGTGTCCGGAATCCTACCCACTGTGATGACAGTGCCTGATAGTTTCTTCTG
CCTTTCTATCCCAAAACGATTGGTCAGTTTACCCAAGGTTTGGCAAATGGCCAGCCTTNA
GNAAATCTTCCCCAGGGGAANCAATNCTTCTTTTCTTAGGTTAAGNTTTGGCCCCTTTAA
GNCCCAATTCCTTTTNGGTTAAGGTTTTGGNAATNTTTGGAACCTNTNTTTNTTTTNTNT
NTNTNTTGTGGCCTTTTCCCCAGGAAAAAGGCCTTCTTAATGNCCTTTCAATTAATGGGG
AACCTTNGGCCANTAACCCCAAAATTTTTTTTTTTTNGGGTTTTNCAATTTCCTTGGGTT
TTTGGGGGTTNCAATGGAATGGGGTTTAAGGCCAAGAAAGGCCCTTGGANCCCCTTCCCC
NTGGGTTTTAACCAAAATTAAGGAAAAATTGGAAATTCCGGGGTTTTTCCCCTTGGGGGG
CCTTAACCAAGGAACCTTTTGGAAGGGTTCCTNGGTNTTTTTTTTTTTTGGGTTTTTTT
TTTTAAAAAAANCCCCTNNTNCNCCCCCAAATNGGGTTGGGGGGCCNAAAAA

Sequence 1474

CGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTCTTTTTTTTTTTTTTTTGNGGATGGGGAC
TTGTGAATTTTTTCTAAAGGNGCTATTTAACATGGGAGGAGAGCCGTGTTGCCGGCTCCAG

TABLE 1

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CCCAGCCCCGCNTGCTTCACNTTTCCACCNCTTTTNTTTCTCACCTTGCCTTCTTGGGCT
TTTCTNCAAGGGCCCCTNNTGGCCTTTCTTCCCCGNACCCCTTTGGTTCTTCNCTTCTGG
AAANAACCCNCTTCNCTNCCAACCAAACCTNNGCAGNCTCCCATTNNCTTTCCCCGGGCT
TCCCCCNTCNCCTTAAGGTTCTTGGTTCCCCTTGGCCGGTTCNCCTTCTTGGTTCCCCCG
GGGTTTTTCAAGNAGNAACAAANCNTTNCCCCAAAAANGCCAACAAAAAAGGCCAAGGTT
TTTTTTTTCCCCCCCCTTAAAAGNGGGNNTGGGGGGGAAGGGGGAAAAGNCCAAAAAAAA
GGAACCTTCTTGGTACCCCTTTTTNGGGGCCCCGGGCTTCTTAAAGAAAACCTAAGGGTG
GGGGAAATNCCCCCCCCCCG

Sequence 1475

AGGTACTTCAATCCTGAATTAATCTTTAAACACTTTCAAATATGGAGATTAATCACCAAC
TTCTTATTTTTTGGGCCAGTTGGATTCAATTTTTTATTTAACCATGGANCTCTTTCNTAT
TATTCGGTTACCTNGTNCGGAAATGGCCTAGGAAAGNAAAGGGCCTTCTTTTTCNCGGAG
GGGTTNCGGGGAACCAAGNCNAGGAACCTTTTTGGTNAATTTTTTAATTGGTTTCCCCTT
TTTTTTGGNTGGGGAATTTCCTTTAAATNGAACCCCCAGGTTCCGGGAACAAGGGAATTG
NAGGCCCAAAGGGTTCAAAAAAGGGGGAAAACCNTTTTTNTNAAACCCCCCAAGGGTATT
GGCAAGTTTGGGACCACCATTAATTAATTTTTTTTTTTCCTTTGGGGAAAAGGGAATGGT
TAATTTTTTCCCCCCAAAATTCCAAAANCCCCTGGGGTGGGGAAATTAAAGGGAAAATTT
TCNTGGAAAAAACCAACCCAATTCTTAATTTTTTTGGAAAAAGGCCTTAATTTTTTTTTT
TGGGAATAACCAACCC

Sequence 1476

AGGTACAAAATTTTATTAAAGGTCTTTAGAGAGCAACATCCAGACTCCAGAATACAGCTG
NGNAGGAGACCCTGTTATGCTGTGGGGACTGGGCTGGGGCATTGGAAAAGCNCCTCCNTC
TGGGCCTTCCCAACNCCCTTTANTTGTTTCTTGNAAGAAATGGGNGGGGNTTTGNTTGGG
NGNCNATGATNATTANCTTTCAATTCTTTTTTAGGGGGGATTTTNACCAACCAAAAATTG
NCCTTTCNAAACCGGTTGNGGNNTTCCATGTGNCCAAGGGNGGNGGCCTTTTCTTTTTTA
NGGGGGNCCCCCAAANTTCNTTTTNAACCCCCAANTANTTTTGNTTTTTCCGGNNAANGT
CCCGGTGTTTNTACCCGGAAAATTCTCCGGNGGGGGNANCAAANGGNGNNTTTNCCTTGG
TTGNGTATTNCCCCAAACTAATTTAAAAAAAAAAC

Sequence 1477

CGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGATGAAATGCCAGGGTGA
AAGGGATAGCCAAATAGGCTAAAGCACAAGTGCCACTCTAGGTTAATTTCGGCAGGACNN
GCCCCAAATAAAAGGGTCCCACCNGACCANNTTACCCAATNCAACAACCATTTCCCGGNT
TTCGGGG

Sequence 1478

AGGTACCTTAACTTGAGTTACAGGGCTGGTCCCTCTCTTTTCATTTTTTATCCCAGTAGG
TGAGACCGTCCCTGCTGTGTTCGGTGGCTGTGGAGTTGATGGCATCTTTGCTCCAGGTGA
CACCTGCATGCTGGCCAGCTGAGCGGCATAGAGCTGCTGCAAAACAGGGAAGACAAACAT
TGATCTCTTTAAATGCAGCTGAAATTGAGTTTCAAAAGAAAAAACTTACCATATTGTTAG
ATTTCTCAGACAGCCTTGTAATTTCTTTTTCACTATTTTTAAAAAAGGGAGCTAAGAGAA
GGCAAATAATAAAACAGAAAGAAAAAGGACAGGTATGGGAGCCATAGTTCTGTTTCTGGT
CCTTCTAGCAACAACTTTATGATCCTGGACAAAGGATTTGATCTCTTTAGAATTCAAGTT
TTTTTTTTTA

Sequence 1479

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAACACCTGCTAAAGACATAGC
TTAATAAATATTTGTTGAATGTTGTTGAATGAAGAGCATTTTCCTGCTCATAAATTTCTC
ATTACTTAACGAATGTAGAATAAATTCCTTACTCTGGCAGACTGGAATATGTAGTTACAG
TTTATTCTAGAATTTTTGCATTCCCCTTCTTCTGGTTCACTTGGAGAAGTTCTTTTCCAT
CCTAAGTGACCCAGGTGAGTCCAGTGTCCTGCTGATTTCACTGCAGGGCAGGCATGTGAT
CCAGGCTGGCCACAGTGGTCAGTGTGGACAACTGACCCTTGTTCATCTGTGGAGTCTAAC
AAAAGTAGTGCCCCCTTATCCTCGGTGGTTATGTTCCAAGATGCCCAAGTGGATGCCTGA
AACCGTGGATAGTACCTGCCCGGGCGGNCGNTCTAAAACTAAGTG

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Sequence 1480
CCGCGGTGGCGGCCGAGGTACTTAGCATTGATCAAAGAAATTTCAAATTACCGATCAATT
GGGTGGGGAGAGGAATTTTCATTGTCCAAGCACCCTCAGGGAACAGAAGTCAAAGCAATA
ACATATTCAGCAATGCAGGTCTATAATGAAGAGAACCCGGAAGTTTTTGTGATCATTGAC
ATTTAAGACACCAAAAAATAAAAGACTCCTACGAAGAACTGTTTTTGTTTTCCTCTTCCT
TTTGAGAAGACACTATGAATTAAATTCTACAGCTTTTTTTTGATATATGGAAATTTGTAG
AACAGAAATATTTTAGTTAAAGTGTGACTTTCAGAAAGGGAAAATCAGGGCACAGCCTTG
GTCTGTGTTCCCCAAATATTCACACTTTAAAGAATTCTTAAC
Sequence 1481
ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGATTGTCCTTTATGCATTAAATTCAT
GCTTTTACATACTTGTGTTTCCTTTTCATTTCGTCCTTCCAAATCATTATTTTAGGAATA
TAGAGAAAAGGGTTGGCCAGGTGCAGTGACTCACACCTGCAATCCCAGCACTTTGGGAGG
TCGAGGTGGGTGGATCACTTGAGGCTAGGATTTTGAGACCAGCCTGACCAACATGGAGAA
ACCCCATCTCTACTGAAAATACAAAATTACCCGGGTGTGGTGGCGCATGCCTGTAACCTC
AGCTACTCGGGAGGCTGAGGCAAAAGAATTGCTTGAATCTGGGAGGCGGAGGTTGTGGTG
AGCCAAGATCGTGCCATTGCACTCCAGCCTGGGCAACAAGAGCGAAACTCCGTCTCAAAA
AAATTAAATAAATAAGGCTTATGTGCAGTTATTCTCAATGAGCTAAAAAGCTTCCTGAGG
CTAGAAATTCTTGTCATTTTTGGCTGGGA
Sequence 1482
CCGCGGTGGCGGCCGCCGGGCAGGTACTATCTATTTGGCCTTGGAAAGTTACTCTCTAAG
TCAGGGCTTCTTTTCTTNAACTTTGGTGTGAGACTCCGCTGGAGAGCCGGTTAGAAAAAC
ACAAGTCTCGGGCCCCACCCCGCAGAGCCCCTCATTCTCTAGTTCTGGGTTGGGGCCCAG
GAGTCTGCTTTTCTAGCAAGCGCCCAGATGTCACTGATGCTTACAGCTCTCANACCACAG
TTGGAGCAGNGATTTTTAAAAGTCTTTTCATTTGTAAAGAGTNGTTCTCCATGCTCCAAA
TGACTGNGACGACTGAGAAAATGCATGTATGTAAAGTCTGCANCTGGTGACATTGTACAC
ACTNAGCAAATGGCCTTNGGTGTTACTGTNANTTTATTTTTACTAATTATTTNTNNCACC
NACAAATTNGGANCTGCTNCAATCGGTNGGAATTTGGAAATTGGGC
Sequence 1483
GCTGCCATCAGCTCCCTAGGAGCTCTCCCTCCAGGAAGGGAATGTGTCCACCGTCAGACA
CTCAGACCCAGCATGTGGGGACAGAGGCTGATGGCCTGTCTGGCCATTCCTCTCAGTTCC
TCTCCTCACTAGCTTGTGTCCTTGTGCAAGTCACTTACCCTCTCTGAGGTTCAGTTCCCT
CCTCTTTGAAGTGGGTTTAATAATAAGTACCTGCCG
Sequence 1484
CCGCGGTGGCGGCCGCCCGGGCAGGTACTGCCCTTTCGTTAGAAGGCAGTGACTCCTTTC
TGTGAAGCCGATTTAGTGAAGTGTCCTGTGCAGAAAAGAGTCCAGGGCTGTCAGTTAATT
TCTTCCGGCCACTGGAGTTAGGGTTTGAAACTCTGCAGCTGCCTATTGCACTTGTGAAAA
GGTTTGTATGTTCATCACTGCTGGCTGGCTCAGAGTTGGGAGTGAATCCTCCAAGGGATA
AGCTTGGAGAACTTTCTGAACAGTCAATCTGTAAAGGTGTCTGCAATCCCAAGGCCAATG
GACTAGATTCTGAAGGCTCTCGGTGGACCCACTGTTCCTCTCTGTTTATTAAGCTTTTTG
AAGGAGAGAGATGAGGGCAGGACATGTGACAACGGTGCTTTTCCTTATGCTTATATCGCT
CTCCAACAGCATCCTT
Sequence 1485
AGGTACATGCAAGTTGCATGATTATAATGACGTGATCCTGGGATTTAAGTTGATTATGAC
AGGAACAGAAGGAACTTGGAGATTAGGGACAATGAAAAGGTGGTAGTGAAAGGAGTGTTG
GAGTTAAGTTACTAGATGTCTGGAAGACAGACTGTGGTGGTCAGATAATGAGATAGATTA
TGGAGGGGTTACAGTTTTTGGTAATAACGAGAGAGATCTAAGGTATGACTGAGAGTGAAT
GGATGAGAATAGCAGAGAACAAGGTCAGTGGAAAACTACTCTTCAAAGAACCTATAGTCA
GGGTGTTGAAAGATTAAAAATTGCTAAGAATTAAATCAGGAAGTAGTGCTGCGGGAAATG
AAATGAGCAGTGAACTAAACTTACTGAGAAATGAGAGGGGATGACCCAAGGGTTTGTAGA
TTTTGTAGATGATAGCA
Sequence 1486

TABLE 1

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AGGTACATGACATCCGACGAAATGAGACGCCACCTAATTGATTTCCGGGAGTCCGCACCA
GGGGCCCTCAGGGAAGAGACCCCGCAAAGATCCTGGGAGACCAAGGTGGGGACCCTGGTG
AGAAGAGAGAGTTCAGGGGAGTCTCTCTTCATTGCCCTTCTGCTAACCCAAGCATTAATT
TGCTAAGTATTTACCAGGGGAGTGGGAAAAAGAGTTGAGCGGGATTCTCTTAGGCTATGA
GAGAGTCAGGCAGCCCCCAAGATAAAATAATGAACTAGAAAATCTGGAACCTTACTTCTC
TGGGAATNTTACCTATCTGGCACCGTGGGAAGAAAGAAAAAAGGCTACTGAGTACCTGCC
CG

Sequence 1487

GCGGTGGCGGCCGAGGTACTGACCTCTGCCAGTCAGCTGCGTAACTCCAGGCCCTAGGGT
GCCCCGTCTGTCCAGCCAGGGATTGCATGGATATGCTGTGATCTCCCTTTTGGTTCTGAT
TGAGTTGGACCTTGTGGGAGGAGAAACATAGATGTTGATACATGAACACATATGTTGGAG
AGAGAAAGTTTTATCTTGGCATAGGACTTTTAAAACACAAGGTAATTTTTAATCAGTTTT
GGGACCAAAAAACACTCAATATGGGAAAAATCCAAATTCTGCCAAAATGTCTAAAGAGGT
TTATTCTGAACCAGTATAAGTGACTGTGGTCTAGGTTACACAATTTCAAGAGATCCTGAT
AAAGCGTGCATGAGAGAGTTGGGCTACAGCTTGGTTTTACACATTTCAGGGAGACAGGAA
TTGTANGGTAAAATTATGGCACAGGACTTTTAAAATGAAGCTGTGAAAGTTTACAGTCCA
TAGAGAATAAAAATCTAGAAGTTT

Sequence 1488

CCGCGGTGGCGGCCGAGGTACTTGACACGACATATGGTAAATGAATAAGACAAAGGCTCT
GATGGCTTCTCACAGCCCTGTGGATCAAACTCAGATTCTTTTCTAGAACCCCAAGGCCCT
GTCAGTCTCACTAGCCTCTCTCCAGACACACCAGCCTTTTTCTACCTTTCCAACATCCCA
AGTTCCTTTTCTCTTACAGGACTACATACACTCTCTCTTCTGCCAGAAACCATGTTCTAC
CAGCTAATTTCCACTCAACTTTTAAGTCTCANCTGAAATGTTACTTCCAAAGAGAGGCCT
CCACTGAACCCCAAGCCTGGGGTTCACAGCACCTGTCTCCATAACTACATAATAATCTCT
CTGATGTTTAGGCTGGGCATGGTGGCTCACGCCTGTAATGCCAGCACTTTGGGAGGCCAA
GGCG

Sequence 1489

GGGCGAATTGGAGCTCCCCGNGGTGGCGGCCGGGCAGGTACCCAGAGTTGCGAGGAGTTT
TTTAACTGATTTAGCCAGGTGGCAANCATNAGTGAATGGATGAAGAAAGGCCCCTTAGAA
TGGCAAGATTACATTTACAAAGAGGTCCGAGTGACAGCCAGTGAGAAGAATGAGTATAAA
GGATGGGTTTTAACTACAGACCCAGTCTCTGCCAATATTGTCCTTGTGAACTTCCTTGAA
GATGGCAGCATGTCTGTGACCGGAATTATGGGACATGCTGTGCAGACTGTTGAAACTATG
A

Sequence 1490

GATNAGCTCGATATNGAATNNCNNCANNCNNGGGGANNCANNNGNACAAGAGCGGANNCC
NNCGCAGAGGAGCTNCAANTTTACACACTGTTTAAATGAGGGAATANGCNGCAGCGCTTG
GATGTAACTGAAGAAGACAGTNNGAGCNNCAAGGAGGGACAACCACGACCTATGAGGACA
CCATGCCAGAGAGGCCTGGACCCCACGCTAGGCTCAGTGCCTGTTATACTCTTGGGACCC
AGCGCTTTCCTTCTCCATCACGTGGCATACTTGGCATTATTTGTTGNTTAAAATATTGCC
CTTAGTTTTNACCTTTCNTAAGGAGACACAAGGNNGACCTTTGNGACATTAACAGTTGCC
CCAAGTNGGGGGNANANAAANAATTTTTGGGGGNGNAAAAANCTTTTGGCTTTTTNNAAA
AAATTTTTTTTTNAAANTTT

Sequence 1491

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGTGACCCTTGCTGGT
GCTTTCATGTTTTGTGCCGAGGCAATTAGACTTTGTGCTGAATNTGTTTGTGCTGCCACC
TCAGGGAAGGGGTGGAATGTGCAGCGTGGTTTCCATTTGACATTGTTTTCCCTGAGAGAT
GGGAGGGCTGAACGTTACCTCTTGACAAGTCTTAGTGGACAGAGGGGCCCGGATACCCAA
GCGCCTTAGTTCTTAGGGCTGGGTATTAGTTCATTTTCACACTGCTGATAAAGACATACT
CGATACTGGGAAGAAAAAGAGGTTTAATTGGACTCCCACATGGCT

Sequence 1492

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTACCCTTTACTTTTTCCC

TABLE 1
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CAAGACCATCTCAGGGTGGAGCATTCTGTCTAAGAGAAGAAAGATAAGGAGGCTCCCACC
CACCTCTCCCAAGAGCAGACATTAAACATCTTTGTGCTTTGAAGAGAGTGAATTTTGGAT
AGTCTTGTGATTCTCAGACTAACTTCCAGAATTATACTTTAACCCCTTCCAGATATGGTC
CGCCTTTGGCATTGTGTGTACCTGTGATGGGGCGTGTGGTTTCCGGTTGTCTCACCTTTA
ATTGTCAACCTCCAGTGTTGACTCTAGAAATATGAGGAAAGCTTTTCAGTTTTTAAAATT
GCCATTTAAATTTAGTCTATTAAAAACAAACCTAGAGGTCTTGGTGCAGTTGATTTCAGA
GTTTATTAATTTAAGTGGTCCCAAAAGTATTACATCTTTTATATTCTGGAAGAAAAGAAC
TGTGAACAAATTAGA

Sequence 1493

CTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCANGGTACTGTGGAGGT
CCCAGGAGTGCTGGTGATGGGCACAAAGTTCCGATGGGTGAAACCATTGACATAGAGACT
GCCTCTGTCCAGGAGGNANGGGCCCAGCTCGATGATGCCATGGGTCAGTTTGCTCAGCTC
CCAGTATAGCTGCTCTCTGTCCAGTCCAGGGTTTAGAGGGTCAAGGCGGTGAGTGCAGAT
GGTGTCCACGCCGGTGGCTGNCCCACGTTTTTCAGGCCTGAGCAAGGTCAGTNTGCAGCC
AGAGTACCTT

Sequence 1494

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAATTTGAATTTGTAATGA
GTCTGATGGTATATTTCAATTTTTTGCTTTGAGGGACTGGCTGCTACATTGCAGAATATC
TTATATCCCTGACTGCTTTCCACTAAATGTCAGTGGTGACCCCAATCCAATTATTATGAC
AACTGAACATGCTTATGCATCCCTCATGCCTTTATTTTTTATTTTGGGAAATCTTTCAGC
TTCAGTTTTTGCTGATATTTATGTGATTCTTTGTTCTGCAATTCAAATTTCTGGGAGCCA
AACAGTCTCCTTGGTTCAGATTACTGTTTTTTGACTAGAGCTTCTCGCTTCAGATTCTGT
CATAAGATTATGGCTTAACCTATGGTTGTCCTTTGATTTGGTGCCATATGAAATAAAACA
TTATTT

Sequence 1495

GAGCTCCCCGCGGTGGCGGCCGCCCGGGCAAGGTACGCGGGGAGTTTCACGCGCGTATGC
TTTGCCCGCCATGGCCGCAGTCAAGGNGCCTTTGGAGTTCCATGCCAAGCGGTCTTGGCG
CCCCGAGGAGGCAGTAGAAGATCCGGACGAGGAGGATGAGGATAATACTAGTGAAGCCGA
GAATGGGTTCTCCCTGGAGGAAAGTGTTACGGCTCGGAGGCACCAAGCAAGGATACCTTA
TGCTGGCTACTTTGGATGAGAATGAGGGAAGTGATAGATGGAGGGCAAAAAAAGGAGCAA
TCCGATTGACCTTTNACCAAGGGGGANTTTTGGAAGCTTTTTTTTTTAAAAATTTTTNTT
TTTNGGNGAAATTTTTNNAAAAACTTTTTTTTNTTTNAAANNANATTACCCCCCTTTTAA
AAAAAAAAAATTTNCCCCCCAAAAAAAAAANGGGGNAAAANANCCCCCCAAAAANAAAAN
ATTAAAAAAACCCCCCCCCAAANGNTTCAAGGGGCCCTTTTTTTTTTTTTNGGGGNAAAAAA
AAAAAATTNGGCCCCCNCCNCNTTTTTTTGGGAGGAGAGGGGGGNCCCCCNCCCCCTTTA
AAAAAAAAAAAGGGCCCCCCCGGGGGGGGGGGGNANTTTTANAAANTTTTTTTTTCCCCC
CCCC

Sequence 1496

CGGGCAGGACCATGGGAAATAAGAGCNGGCTNNNGGCATTCTGNGTANGGAGCCTGAGCC
AAACTCTAAAGCTGTCTTTATAAAGGGAGGTCATGTGATGGCCAGAAATTGCCTTTGCTT
CATGGTGCACTTGGTGGGGAGTCAGGTGTGGGGTGCTGGGTTTCACATCATCCCATTTTC
TTTTNNGNNTTCAGACCTGCAATGCTTCTTTTGCAACCCGAGACCGTCTGCGCTCCCACC
TGGCCTGTCATGAAGACAAGGTGCCCTGCCAGGTGTGTGGGAAGTACCT

Sequence 1497

AGGTACTTTTNGAAGTAACTGGACATGNGGGAGGNNAGGGGAANGGAAGTATTGNTATGG
ACTGAACTGTGCCCCCAAAATTCATATGTNGAAGCCNTGAGCTCTGACATGATTGNATNT
GAAGTCCTAAAGCCAGGAATGAGGAAGGCTGTGAATGTNCATTGTTCCATGCAAGAATGA
CTCTGGNGNGGGCTATTTAGAGATCATGAGGGATACTGCCCCAGTTTCCACAGGCCAGAT
GGNCTCCAACAAAAGCCACGGGGGAGTCACCCCTGCCTGGCAGATCTATCGGGTCAGGAC
CACCGCCCAGGGGGTCCTGGAGAGGACAGTATAGGACCAAAGAGGAT

Sequence 1498

TABLE 1

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CACCGNGGTGGCGCCCGAGGTACTTGGCCAAGCGCTCAGATCGGCAAGGGGCACCAAGTC
TTGATCTGCCCAGTGCACAGNCCCACAACCAGGTCAGCGATGAAGGTATCTTCAGTCTCC
CCCGAACGATGAGACACCATGACGCCCCAACCATTGGCCTGGGCCAGCTTGCACGCCTGA
AGAGACTCGGTCACCGGAGCCATTCTGGNTTGACTTTTTAGCAAGAAGGNANTTNAAGGA
NTTTTTTTTTANCGNCTTNGGNAATCCTTTTGGGGGTGGGGCNCNTGGGNGAAAAACTCC
CCCCCANCCNTNGNGATTCNTTNCNNGNGGGNNGAAAAATTTTTTGGNNAAAANTNNCCC
ATAANNTTTTTNGTGAANAANGGANTTTTTTNANAAAANCCCCCTGGGGTNTNTNTTTTN
NNNAAAAANATTTTTTNTCTTCNCNGGGGGGGNCNNTTTTATAAAAAAAANGANNANACC
CCCCCNCCGTGGNGGAGAAAATTNTTTTANATTATTTTTTTTCNTCCCCCCCCCGGGCCT
TGGGGGGGGGGGCCCCCCANCCCTTTTTTTTTTTTTTT
Sequence 1499
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGTTAA
TTTGTGTCATCCCATCAGCAATGAAGGTCCCTATCCAGGGTCCTGCTTGGAGCAGCATTT
CATGTTCTTTTGCTGTTTTGTGCTTTGCCGATTTTGGATTTTATTTTTCACAAAATTTTT
ATTTAAAAAACTCGTCACCTTTTGGAAATGCCCATTGCCGACTTGAATTTTTTTGTATGA
AGTCCCTCCTGATTTTGTGTGTGTGTGTCTGTGTTTAAGCAAGCGTTCGGTTGGTATAGN
TTTTTTTTGTTTTTTTAATTTAAATTGAAGGTAGCTGCCTCCTGAAAGCCAGCATTAAGC
CAGAACACCCAGNTTCAAGCAAAAGACCCACCTCTCTGCAGAGGCAAAGTCTACTTTCTG
GTACCT
Sequence 1500
CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTAGTAGAGACGGGGTT
TCACCATGTTTGCCAGGCTGGTCTCGAACCCCTGGCCTCAAGTGATCCACCCGCCGCAGA
CTCCCAGAGTGCTGGGATTTCAGGTGTGAGCCACTATGCCCGGCCTAATACGTGGATTTT
TAAAGCTTCAGGTTCTGGTTCAGAAGTTTCCTGGGTCTCATTAAAATAATGAGGCACTCA
GAATTGGTCTAATAAAAATAACGACCATTTCTTTCTACTTCAGCTNTTTCACAAACTTTT
TTAATGAAAATGACAAGNGAGGNCCTTCAGTAGGGGCATTTTCAGGGGANAAAAATAGCG
GGNAGACCTGAAACCTGGGNTAGGNAGTTTNTTTTTATTTTTTGAACAAGAAGANNAATT
TTTTCANAAGACCCTAAAAAATTNTTTTCCCAAAAACAAAAGNGNTTTNTTTTTNTTTNG
GGNGGGACCCCCTTCCTTTTGGGNNTTTTNCCTTCCCCCCT
Sequence 1501
CACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCCGGCCGCCCGGGCAGGTACGCGG
GGGCCACTGACCACAGCTCTTTCTTCAGGGACAGACATGGCTCAGCGGATGACAACACAG
CTGCTGCTCCTTCTAGTGTGGGTGGCTGTAGTAGGGGAGGCTCAGACAAGGATTGCATGG
GCCAGGACTGAGCTTNTNAATGTNTGCATGACCCCCAAGCCCCACANGGAAAACCCCGCC
CCCGNGGACAATTTGTTTTNACCANGTTTCCCCCNTTGGNNNNAAAAAATTCCTTTTTTT
TTTNCCNNCCCCCCCNCGGNGNNCCCNAAGGGGGNNTTTTCCCCNNTTTTTTNANTNNNC
CCCCCCCCCCCCCCGGGGGNGGGGNGGNCNCCCCNCTTTTTNNNAANNANTTTTTTTTTNT
TNNAAAAANCCNCNNNTTTTTTANAANGGGGNTCCCCCNNAATNTNGGGGCCCNTTATCC
CCNGGGGGNTAAAANAAANTNTTNNCCAAAAAGGGGGGNCCCCCTCCCCCTTTTTNAAAA
NAGGGGGCCCCCCCCCGNGGGGGGNNGNGAANTNATAAAANTTTTTTTTCNCCCCCCC
Sequence 1502
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTCCAGCG
CAGTCTGGGCCCCAAAGCAGTTTCACCCTTACCTAACTTACCTAACTCTTAATATAGCCT
AAACTCACTGAAAAATAAGCTAACTTCATTTCACCTTTNGTAGCATACACGTAGACTCAG
AGTNTATACTGAAATATAATGGGAGGCTGTTATNAAAAAAAACCNNCCCTCNAAAAAAAA
AAAATNTNNNCNNCTNAAAAAAAAAAAAAAAAAAAAAAAAAANNNGGGGGGGGGGGNNNNG
GGTTTTTTTTTNATNNTAAAAAAAAAATNNGGGGGGGGGGGGGGGGGGGGGGTTTTTTN
TNNTNTNTTCCCCTNNANTCCGGGGGGGGGGGGGGGGGGGGTNGTNGGTTTCCTTNTATT
NTCTNTNNCTANNNCACNCCTCCNANACCCGCNNNNGANNNNAANATNNNTTNNAATTAT
NNNNATTTNNNAAAAAGNGGGGGGGGGGGGGGGGGGGGGGTTNCTTTCNNTTTNNANTAT
AANTANNATAGTNTCTNNNGNANNNTTNTNTNNNNANATNTNGGNNTNCNCNCNTNCNTN

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CNTCTTNTTTATAAAANAAAAAAA
Sequence 1503
CCCTCGCGGTGGCGGGCGAGGTGCATCACCCTGCTGAGGGACATCCAGGACAAGGTCACC
ACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTG
ACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCCAGC
CTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCC
ACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACA
AGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACCATATTCC
CAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGAGGAT
GCGCTCAACCAACTCTTCGAAACAGC
Sequence 1504
CCGGGCAGGTACTCTTGACAAAGCCTCCCCAACAAGGTGAAATCACTCTCGGCTCACCAC
TGGTGGCAGAAATACTCTGGGCCTGTCTGTTCTGAATGGTCAGTTTCACTGTAATCCTCA
GGCCCTTCCAGTCACCCGTTGCCTTGGCAATGTCATCACCAACTTTTTTTGGAGACAGAC
CCAGGGGGCCCGATCTTGGGGGCCAGGGCAGAAGTTGGCACCGACTTTNCCTTCCGGGNN
CCCCTAAGGTTAAAANACTTTTNTTTTTTTGGGGGNNNAAAANTTTCGGGCNNTTGGGGG
GGGGCCCTTTNNTTTTTAAANNAAACCCCCNNTTTTNGGGAAAAACCCNAAAGAAAAGTN
CCCCCTTGGGCCCCCCCCCNNCCCAAAAGGCCGNNAAAAACCCCCGGTTTTTTNGGNGTT
TTTTAAAAAAAAAGGAAANCCCCCCGCNNCGGGAAAANTTTNTNANAANTTTTTTTCCCC
CCCCCCCCNCGGGGGGGGGGCCCGGCCNCNNTTTTTTTTTTTTTTTTT
Sequence 1505
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGGTGGTAA
ATGCTTAACTCCACCTATATAAAAATCAAAAACAGGCAAAATGAATCATCAGACTACAGC
TTACCTTTAGGGGGTGTGAGTAGTGACTAACAGGGGTCAAGATGAAGGTTTAAGGATGTC
GCCAGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGCGGAT
CACTGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCTGTCTCTACTAA
AAATACAAAAAATTAGCCGGGCGTGGNGGTAGGCGTCTGTNGTCCCAGCTACTCGGGAGG
CTGAGGCAGGAGAATGACGTGAACCCAGNAGGTGGAACTTGCAGTGAGCCGA
Sequence 1506
CCGCGGTGGCGGCCGCCCGGGCAGGTACCATTTCTGCATTTATTTTAGCCCATGGAATAA
CTGTGCTGAGAAACCACAGAGTCAATCAGATTCAAAATGTTAAAATCCTTCCTGCTTGGA
GTTTTCCGTCTTCACATCAAAGCATTTCATGCCCGTCAGCAACTTTTTAATGCATTTGCT
CCTCGTTTGCACAATTTCCATTTAAAGACTTTCCTTGGCTGACTTCTCTGATGAGGTTTC
CTGCTTGCCAGGAGAGCACGCTAATGCAGAAATTACAAAGGGGGCTTCACGTCCCTTTTC
CGGAGGACCTGATATTTCAGATAATTTCCAGCTTCAGTTTTGGAGAAACGACTGTTCTTT
GCACCAGGGGAAAATAAACTGATTTTCAGTGTAAGCAACCTTTCTGCAAGTAGAATGGGG
ACTGTTGGGAATGGAGATGAAGACTTCACTTCATGTTATTCATTTCCTTAC
Sequence 1507
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTG
GTTAGGTTAACAGAAACAATGGGGTTATTTCCGGTAGTGGCAACAGCACGAACTAGTTTT
CTTGTGGACTAATGGCCCGAGAGTTCCTGCGATTTGTGGATTATTTCCCTTAGATGCAAT
CGACCATTTCGTTCCAATAAGAATTAATGCTACCACGGGGCTTACAAAGAACCCCTCAAG
TCTTCCAAATCTGCCCATGACATCAACCTNTGCTGCGTAATCGGACCTGCACCCAACCCA
GGTTT
Sequence 1508
CCGCGGTGGCGGCCGAGGTACGCGGGAGAACAGCTCAGAAGGAGACCCACAGTGAGCAGC
TCCCCTGTGTCGGCGGGCAGGTCGTCCCTCAAGTGTTCAGCTCTCAGCAGAGAAAAGGCC
CTGGAGAGGGTGACTCCTCTCAGCTCTCAGCAGAGAAGCAGCCCTGGAGAAGGTAGCTTC
TGTTCGCAGGCAGATTGTCCAGAGGTCCTGCTGCTCTCAGACGGGGCCCTGGAGAGGATA
GCTTCTATCCATAGGCAGG
Sequence 1509

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CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAGCA
GTGGAAGCTGCAGAGGGCCGAAACAAAAATGAAGTTTTCTACCAATGTCCAGACCAAATG
GCTCGAAATCCAGCTGCTATTGACATGTTTATTATAGGTGCTACTTTTACTGACTGGTTT
ACCTCTTATGTCAAAAATGTTGTATCAGGTGGCTTCCCCATCATCAGAGACCAAATTTTC
AGATATGTTCACGATCCAGAATGTGTAGCAACAACTGGG
Sequence 1510
CTCCCGCGGTGGCGGCCGCCGGGCNGGACTTTTTTTTTTTTTTTTTTTTTTTTTAAAGAT
CCAGACTAAGACACATCAACAAGAAATTTCCAAATACCAGGTCAAGAATACTTCACATGT
TTCTGGAGGGAAAGAAAACAGTTCATATACAGNGAATCAGGAATTACAATTGCATCAGAC
TTATCAACAGCATCGGGAAGATAATGNGAAAATACCTTCAAAACTCTNGAGGGACACAAG
AAGATGCTGCCTGGCCACAGGAGCGAGACTGCTGGCCTCCAATCAGTCTTNTGGGCAGGC
CTNTGATGCAATTACAGGGCTAAGGAACCACGGTAACCAATGTGCCATTGGCTGTGCTAA
AACCCAGNGGCCCCAGGAAGAATCCTGTTGACACTGGCTTGGAACATGAGGCTTAA
Sequence 1511
CGACTACTATAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAAGGTACTTTT
TTTTTTTTTTTTTTTTTTTTTTTGGCATATAATCCAGTTTATTAAATACAGATGATGGGC
CAGACATGGTGATAGAGAAATACAGATTAAGAAACCAGATCAAATCCTTTTTAAGGAATT
ATNTAGNGGAAAATATNTCAACTNTNTTNTTTACNCTACTATTCATTATCTTACACTTCA
AATCTTCACCTTTCCATTTTGACNGNCGCTNTTTTACTTCAGNNTCCTGAAAACATNTTT
CCAACAGAAGTTACATAAAAATNCTAATCTTCAAGGGGCTTTCTAAAATATTTTNATCAC
GTCATTAAAATCTTCTTTCACTAGGCAANGGTTNTGTCTTTATGGGGGCTG
Sequence 1512
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGACAGAAATGGAGTCATCAGTTTATCA
ACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACC
ATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATAT
TGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTTTTCTGACTG
TCAAGTTTCAACATTCAGGTCTGTCCCAACAGGCACCACACCCGGGGGTGGACTCCCTGT
GTAACTTCTCGCCACTGGCTCGGAGAGTAGACAGAGTTGCCATCTATGAGGGAATTTCTG
CGGATGACCGGAAATGGGTACCTCGGCCGCTCTANAACTAGGTGGGATCCCCCCGGGCTG
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GTCCCAGCTTTTTGGTCC
Sequence 1513
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AAACAAGAACCGGGAGGCCCCGGGGGAGNCCANAAAAAANGGCGGCANAAAAGNCCCNGG
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NNCGGGGCCCCCAACCCGCCCGCCCGNGNGGGGAAAAGGAAGGGGGGCCGGGNNCNCCGC
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CNGGGAACCNGCCGGCCNGGCCGGCCCNCCCGGGGGGNCCCGGNNNACCGGGANGNGGNC
CGGGCCGAAGGCCGGGGNANGCAAGCCGNCNAACCNCCAAAAAAGGGGC
Sequence 1514
GTNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAGTCTTNTAAATCTGGTGTGTTT
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ATCTTCTGATGGCTATCTTGTCGAATAGCACAATTCTAGGAAGTTCAAAAGGGGGAACAA
TTGCTTCTCAAATTGATGAAGGTAGAGAAGAATGGTATCAGAGAAACTGATTAAGCAGGG
ACCTGGGAATCTGAGTTGAGTTCCGGGGCATGTTTGTTCCCTAGCACCATGACCTACATG
GCAGTGTCTCTTCTCATACTATTNTAAGAGTCCCTGG
Sequence 1515
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGGCCAAGC

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TGGACTGCATAAAGATTGGTATGGCCTTAGCTCTTAGCCAAACACCTTCCTGACACCATG
AGGGCCAGCAGCTTCTTGATCGTGGTGGTGTTCCTCATCGCTGGGATGCTGGTTCTAGAG
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Sequence 1516
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CAGCCACAGCTATTGGATTTCCCACCCAGAATCTTTAGGTAAATGAGGTAAGTCCTGATT
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AAAGCC
Sequence 1517
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GATTACAGGCGCCGTGCCANCATGCCCGC
Sequence 1518
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Sequence 1519
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CCGCCATTTTATAACTTACCTCCCCGCGTACCTN
Sequence 1520
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GACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGAGGATGCG
CTCAACCAACTCTTCCGAAACAGC
Sequence 1521
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CACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAA
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TTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGA
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Sequence 1522

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CAGGACAGGGTAGAGGACTAAGTAGCACATGTCCTCCAGAGCAGCTTCCTGTCTTTGTGT
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Sequence 1523

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Sequence 1524

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Sequence 1525

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CAAGGCATCTTCATGCAGGCAGCCCTTTG

Sequence 1526

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CCTCTCTCCGCTCCTGGGGAGAGAAGGATCCTGCACACCACAGGCAAATCATGCTGAAAT
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Sequence 1527

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GGAATAACACTGTCTTTCCACAGGTCACAGACTGGGATGAGCAACGGGCTGAAGGCACGT
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AGATGGTGAAGGGGGACCTGGTNCTG
Sequence 1528
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TTACACCTCTGCCTTAGAAGGAGTCCCCCNTGCC
Sequence 1529
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GAAGGAAAGGAAAA
Sequence 1530
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Sequence 1531
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Sequence 1532
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Sequence 1533
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Sequence 1534
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GACTTTCTTTCCTTGTCTAGGACCAGTTGAAGCTCATTATTAACCTGCTGCAGCTCCTCA
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TCCAAAATCTCCTNGACTTGCTCAGGGGCATNTGTAGCCTCC

Sequence 1535

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Sequence 1536

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ATGGTTTTTGGTANGGGGAAAAA

Sequence 1537

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Sequence 1538

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Sequence 1539

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GCAAAGT

Sequence 1540

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GCCCCAAGGATCTGTGATACACTTTCAGGGTCATTTTTTCCTTGTCCCTGCCAGTCCAGG
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Sequence 1541

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Sequence 1542

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Sequence 1543

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TGAGCTTAATATTGTAATTTGTATTTGATCTGCTGGGTCTTTGGAGTCAGGACTGGTTTT
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Sequence 1544

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Sequence 1545

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Sequence 1546

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Sequence 1547
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Sequence 1548
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Sequence 1549
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Sequence 1550
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AAATAATCAGATTGAAAGTCCAAATCATTCTTAAGCAAGCAAAAATCCTCAGTGGCCATA
CCTCA
Sequence 1551
GGCGGCCGCTCTAGAACTAGNGGANCCNTTTTGCGGGGGGAAAAAAACCCCAAGCCCANC
GANACCGNCGACCNCGAGGGGGNNCCCGGNACCCAGCGNNNGCCCCCNAAAGAGAGGGNN
AANNGCGCGCNNGGCGNAANCANGGNCANAGCNGNNNCCNGNGNGAAANNGNNANCCGCN
CACNTTTTNNTTTNNCNGACGAGCCGGGNGCANAACCCCCAAANANA
Sequence 1552
CCGGGCAGGTACGCGGGCTGCCTGGGGATGGCAGCCGCGTGCGTTCCCTGTGCTGTCCTG
TAGGGTTGTGGTGGCTTTCTGATATTCAGGTTGGTCCCTTTTCCTTCTTTTTGGATGGGC

TABLE 1

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TTTCGAGGTTGGGAGAGGAAGCTCAGGGATGGAACTGACTAAACATATGTGAGATGTTTC
CTTGTTTGCTGCTCATGGAGGTTTCATTTCTGAAGTCTTTTCTTGGGAGGGAAAAGGATG
TGTGGATATATGAGGTGACTCTAGAACCCTCATTTTATGGATGAAGAAACTGTGATTCAC
AGAGGGAGAGTGATTTGTCCAGTGTCACGTGGGGAGCTGGCCGGGGAGCCAGACCTCCTG
TACCTCGGCC

Sequence 1553

TACTATAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTTCCATG
GGCCCTGTTCCCATTGATGTATACTGCTTCCTTACTAACAGTGAGGGATGACTTTCATCA
GTCTTTTATCACCTGAACAGTCTTCCGGCCATAATGATAGTAACTATAAGCTGATGCAGC
TGTGGTGAAAGCTGTAAAACACCTTTTATGGAAGAAAAGAAATAAAATGTAGTTGTCAAG
TCTAAAAAATAGTAGCAACGGGAATCATAATGAATACATGCAATGAATTTAAAATGTAAA
AATGAATTTAAAAAGTAAAAAGGGCTCTGTGGTGTAATTTTTCTTAACTACAAGAGTCTA
AATACACTGCTTTTCTTTAAGAGTTCATTTTAATTAGTAACGTCAAACAAAATTATTCTA
GATAATGAGCCCTACAAA

Sequence 1554

ATCGACTNCTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGC
GGGTGGCCAGATTAATTTTCCAGCCAATAGAGGAAAGTTTTTATATATTTTTTGCTAAGG
TGCTGGAGAGGGGAAAGGATGCCACACTTCAGAAGCAGGAGGACGTTGCTGTGGCTGCTG
CAGTCTTGGAGCCCCTGCTCAAGCTGGCCCTGCTGGCCGGCCTGACCATCACTGTTTTTG
GCTTTGCCTATTCTCAGCTGGCTCTGGATATCTACGGAGGGACCATGCTTAGCTCAGGAT
CCGGTCCTGTTTTGCTGCGTTCCTACTGTCTCTATGTTCTCCTGCTTGCCATCAATGGAG
TGACAGAAGTGTTTCACATTTGCTGCCATGAGCAAAGAGGAGGTCGACAGGTACCT

Sequence 1555

CCGCGGTGGCCCGCCCGGGCAGGTACAGCAAAAAAGAAACTGAGAAGCCCAAACTGCTTT
CTTGTTAACATCCACTTATCCAACCAATGTGGAAACTTCTTATACTTGGTTCCATTATGA
AGTTGGACAATTGCTGCTATCACACCTGGCAGGTAAACCAATGCCAAGAGAGTGATGGAA
ACCATTGGCAAGACTTTGTTGATGACCAGGATTGGAATTTTATAAAAATATTGTTGATGG
GAAGTTGCTAAAGGGTGAATTACTTCCCTCAGAAGAGTGTAAAGAAAAGTCAGAGATGCT
ATAATAGCAGCTATTTTAATTGGCAAGTGCCACTGTGGAAAGAGTTCCTGTGTGTGCTGA
AGTTCTGAAGGACAGTCAAATTCATCAGCATGGGGCTGTTTGGTGCAAATGCAAAAGCAC
AGGTCTTTTTAG

Sequence 1556

ATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGTCCACATCCCGAAGGCCATAGCGTC
GAGCAAGGTCACATGGATGGCAGCACCTTACCACTCAGGCTCAGGATATTGGGATCTGTT
GCCAAAGCCACCACACATTTGCCACTCAATTCTGTGGTTTCCGCAGATGAGAAGGCTGAT
TTGAACTGCTTCAACACAGGATCCTGCAGGACCTCCTCCTTTGCCATATGCTCCTTCAGC
AGTTCTGTCTGCACAATCCCCGGCCACAGAGACACACAGCTGACCCCATGGCGCCGCAGC
TCGTGGGCACAGTCAGCAGCCAGCTTGTCACACGCAGCTTTGCCCACACCATAGGGGACA
TTGAACATATACTGCAGGCTTCCTGGGGAGGAGATGACCACGATNAGCCCCTGGCCAGCT
GGTACCT

Sequence 1557

CTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGCAGGTACGCGGGGGGT
CCTGGTGCTGCGGCCACACCACCCTGGGGTGCTCATTGACAGAGCTGCCATAATGAACTT
GAAAGGACGGGAATCACCGAGGGAAGCTGGGGCTCCCCTGCCCACAGGAGAGGATCCCCG
TTCTTCAAGCTTCTCTGCTCAGTGTCTACTAACGACCGACATTTGCTAATGTAAATAATA
GTAAATTATTGAGAATTCTAATTCTTTTACACAGTCTGTTTTTAATCTATTTTAATTAAA
TAAAATCTATGACT

Sequence 1558

CCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCT
GAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAAC
CAATGAGGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACG

TABLE 1

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ACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCCTCTGAGCGCTGTCTATCGCA
TCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCC
TTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCCCTTCTGTCCCGCTGGAACCCATGGT
CCACTGAAGTTCCTTATGCTACTTTCACTGAGCATCCTATGAAATACACCAGTGAGAAAT
TCCTTGAAATTTGCAAGTTGTCTGGGTTCATG

Sequence 1559

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCCAGGCACAGCTAA
TTTTACTTTTTATTTTCTTGAGACAGGTCTCACTCTGTTGCCCAGGCTGGTCTTGAACTC
TTGGCCTCAAGTGATCCTCCAGCCATGAGCCACTGTAAATGTCTGGGAATGCCAACTTGA
AGCCCAGCTGGTCAGAAGTTCTAGAGGCCCAGACTTGCAACTGGTGTCTGAAGGGATGGC
AGTCTTGGGGACTGAGCCCTCAACCTGAGGGATCTGATGCTATTTCCAGGCAGATAGTGT
CAGAATTAAATTGGAGGATACCGCAGTTAGTGTCTGCTGCAGAACTGATTGCTTGCTTGC
TGGTAGGGGGGAAATCCCCACATATTGGGGGGGTATTTGAAGTCTTTTGGTGTTGACTCT
TACTGNGTTTNGTTGGTTTTTCATGTGAAGAGCAGAGGGAAAAGCAAGGGA

Sequence 1560

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACTGACCCAACAACTGTGACTA
GCTGGCCACGTCATTCAGGGCTGGTGTGGCATTTATGTGTGTGTGTGTGTGTGTGTTT
TTCCTGTTTGCCCAGCAGTGCATTGTGGGTTCCAAGAGTGGGTAGTGTGTGTATGTGTGT
GTGTCAGAGGGAGACCTGGCAGGCACCTNTTTGAGAGTAGCTGTGGTCAGAGCTGTTTGG
TCAGTGCATTATGTTGAATGAGGTCCAGGAACCCAGAGCCACCCAGCAGACACCACTGTG
GCTTGCCAGCTGCCAAGATGGAGAAGCATGTGCCCCTGTAGAGCGTCTTCCCAGAACCAG
ACCCCGAGCCACTCGCTTCCTCTGTGCTGNGACAACATTGGTGCCAGGGGAGATNGTTNT
TTTTTCAAAGGGGACCTACTGTAGCCCCTTTTAAT

Sequence 1561

CCACTCACTATAGGGCTGAATTGGAGCTCCCCGCGGTGGCGGCCGGAAGAGCAACCGAGA
TGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACT
TACAGAGAGTTCCAAGAAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACTGAGAA
TATGTAAGAGCTTTAAATGCTACCAAACTGGAACGAGTATTTGCAAAACCATTCCTTGCT
TCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCT
ACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAAT
TGTATCCGTTACCT

Sequence 1562

GGGCGNGTTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTTCCTGCCTTCCCCCATATA
CTGAAGTTTGAGAGGCTGGGAAGGTGCGGAATGGGAAAAGGAGCAGCTGCTTATGTTCAG
TTTAACATTCTCTGGGTTTCTCCATCTAGGTCTTGAGTTCATTCTCTTCCTGTCCTTTTG
GCTTCCTTGTTTAACCTGGTCCCTGTTTCAGGAGAGAAGCCTCATCAGTGCCAAGTCTGT
GGGGAAGACCTTCTCTCAGAGTGGAAGCAGGAATGTGCATATGAGAAAGCATCACCTGCA
GCTGGGAGCAGCTTGGGAGTCAAGAGCAGGAGCAAACTGCTGAGCCACTAATGGGGCAGT
AGTTTGCTTG

Sequence 1563

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTTCGTAAACCATGGAGAGC
CAGCCCAATGCACAGCAGTGGATATCATCTTTCTCAGAGTCCAGTATCACAGAATCACGA
CTTTGTCCAGCTGCAGGTGCCTGCAGGTCACACTGGCTAACTACTTTGTGATGGGCTCTT
CTTTCTGAGGTTCTGCCAACTTGTCTACTACATAGGGTTGATCATCCTGTTCAGGAAATA
TTTCTTTCATTTGCTCTGAGCTTAATATTGTAATTTGTATTTGATCTGCTGGGTCTTTGG
AGTCAGGACTGGTTTTATCAGCAGTTTGATCTTCTGAGGTCTGGTATGTAGTTTGCTGGC
CCACAGAACCTTCACGTGTATTCACAGCCTCAATGCCATAAGGAAACTCTTTTAGAAGTT
CTGACAGCTGGTCATGTAGGTATAAGACAGGTGCCTTATCACTGTGGATTTCATTTCTTG

Sequence 1564

CCGCGGTGGCGGCCGAGGTACAAATTGTCGTTTTTATTCCTCTTATTGGGATATCATTTT
AAAAACTTTATTGGGTTTTTATTGTTGTTGTTTGATCCCTAACCCTACAAAGAGCCTTCC

TABLE 1
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TATTCCCCTCGCTGTTGGAGCAAACCTTATACCTTACTTCCAGCAAGCAAAGTGCTTTGA
CTTCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACAAAACTGTTCTTTTGCATTTTGCCG
CTGAGATATGGCATTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGATATTGATCAA
ATATAGAAAGTTGATATTCAACCTCACAAGGGCTCTCAAAGTATAATCTTTCTATAGCCA
ACTGCTAATGCAAATTAAAACATATTTCATTTTAACATGATTTCAAAATCAGTTTTTCAT
ACTACCCTTTGCTGGAAGAAACTAAAAATATAGCAAATGCAGAACCACAAACAATTCGAA
TGGGGTAGAAACATTGTAAATATTTACTCTTTGCAAACCCTGGTGGGTATTTTATTTTGG
CTTCATTTCAATCATTGAAGGTATATTCTTATTGGAAATGTACCTGCCCNGGCCGGCCGC
TCTAGAACTAGTGGAATCCCCCNGGC

Sequence 1565

ACTACTATAGGGGCGAATTGGAGCTCCACCCGCGGTGGCGGCCGCCCGGGCAGGTACTTT
TTGGTGTTTTTTGGAAAAGTTACATTTAGATCTATTCTGAAGCTGTTCATTTTTAACAAA
TAAAATGTTACAGGTTTCACATGATTTATTCGCAAAAAAAAAAAAAAAAAAAAGTACTGT
CTGTGAACAGCAAGGAAAATATGATTACACCTAAGAGATGAAATTGGCATAGGCGAGAAG
TCAGAAAAATAATCTATACAGCTTGCATGGTTGGGGAGTTAGGAGAGGCCAAGGCCACGT
GCACGTAGAGCAAGAGGTAGAAGAGGCCCGGGGGCTAGAGCGCACCCTGGTGGATAGTGT
GAGAATTTCACACTGGCTCAAGCCTTGAAGACCACCCCAGGGGTGCGCCTTAGCAACGCA
CTTATGCAAGACCCCAACAACTGGCCCTTGAAAGGAGCTTTTCACTGGTGGGATGTGGCC
CTGCTTGTATTCAGAACCATAGTTTTAACAAGCCANCATTAAATCCACAAGTCTTTGCCA
AAGCACTTTAAGCCTNTTGACATTTATTGGAATTAATTTACCTGCAAGGAAAGTTCATAT
ATCTAGCTTTGGTAACCCTACATTCGGGAAAAATGTTTCCATGANATAACTAAAANCCCC
ATGAATGATACAATCTTGGACAAAACCCAAAGNNGGCATAATTAGCATAAAACTCCAAAT

Sequence 1566

CCCGCGTCCGGCATCTCCCAACGTGACTGACCCGCCGACCACGACCCGCAAAGTGGTCCC
GACGACGCTCACCACCACCAAGCCGCCAGAAACCTGTGAGAGCTTCAACAGCTGTGTTTC
CTGTGTCAACGCCACCTTGACTAATAATATTACCTGCGTCTGGCTAGATTGCCATGAAGC
AAATAAGACCTATTGTTCAAGTGAATTAGTAAGTAATTGTACCCAGAAGACCAGTACTGA
CTCCTGTTCTGTAATACCTACCACCCCAGTGCCAACCAATTCTACAGCTAAGCCTACAAC
TCGGCCTTCCTCTCCTACACCTACTCCCTCAGTTGTCACATCAGCAGGTGCAACAAATAC
CACTGTGACTCCAACCTCACAGCCTGAGCGGAAGTCCACCTTTGATGCAGCCAGCTTCAT
TGGAGGAATCGTNCTTGTCTTGGGTGTGCAGGCTGTAATTTTCTTTCTCTATAAATTCTG
CAAATCTAAAAGAACG

Sequence 1567

TCGCCNCGCGTCCGGGCAACTGCAGTTGGAAAAAAAGATTCAACTTCAAAGCAGAGGATT
TTTGATGAAGAACCAGCTAATGGAGTGAAGATAGAAAGGTTTACAAGGGATGATCCTTGG
TTATCTTCATGTGAAGAAGTGGATGATTGTAAAGACCAGTTGGAGAAGCAACAGGAAAAA
CAAGAGATACTTTTGCAGGAAGTGGCATTCACTCAAAGGAAAGCAGTTATTCATGAGAGA
GTCTGCAAAAGTGATGAAACTGGGGAGAAGAGTGGTCTGAATTCCAGTCTATTTTCATCC
CCAGTTATACCCATAAGAAACCATTTTCATAAACATGTATCACATGCTAAAAAATGGCAT
CTTAATGCTGCTGTAAACAGTCATCAGAAGATTAATGAGAATGAGACACTATATGAAAAT
AATGGAATGTGGAAAACCCCCTCAGAGCATTCACCTTATTCAGTTTACAAGAACCTCAAA
CA

Sequence 1568

GCTCCATGCCCTTCTCTGAGACGGGGACCAGGGGATGGCAGNCATGCACCTGACAGCCTG
GCCCNAGAAGTCGGTGACCTTTGAGGACGTGGCTGTGTACTTCACCCAGGCGGAATGGGA
TGGCCTGTCCCCTGCACANAGGACCCTGTACAGGGATGNGATGCTGGAGAATTATGGGAA
TGTGGCCTCCCTGGGATTTCCACTTCTCAAACCTGCTGTGATCTCACAACTGGAGGGAGG
AAGTGAGCTGGG

Sequence 1569

CGCGTCCGTTTCTCCTGGCACCCTGTATTCATGGCCTTGGCGTTCTGCCTCTGCATGGCT
GAAGCCATCCTACTCTTCTCACCTGAACACTCCCTGTTCTTCTTCTGCTCCCGAAAAGCA

TABLE 1
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CGGATCCGGCTCCACTGGGCAGGGCAGACCCTAGCCATCCTCTGTGCAGCTCTGGGCCTG
GGCTTCATCATCTCCAGCAGGACCCGCAGTGAGCTGCCTCATCTGGTGTCCTGGCACAGC
TGGGTGGGAGCCCTGACACTGCTGGCCACTGCTGTCCAGGCACTGTGTGGGCTCTGCCTC
CTTTGTCCCCGGGCAGCCAGGGTCTCAAGGGTGGCTCGCCTCAAGCTCTACCATCTGACA
TGTGGACTGGGTGGTCTACCTGATGGCTACAGTAACGGTGCTTCTGGGCATGTACTCAGT
ATGGTTCCAGGCCCAGATCAAAGGTGCGGCCTGGTACCTGTGCCTG

Sequence 1570
CGTCCGCTAAGTTCCAATATTGAAAAATCTGTAAAAGACCTCCAGCGCTGCACAGTGTCT
CTTGCACGGTATCGAGTTGTAGTTAAAGAAGAGATGGATGCCTCCATTAAGAAAATGAAA
CAAGCCTTTGCTGAATTGGAGAGCTGTTTAATGGATCGAGAAGTGGCGTTGCTTGCTGAA
ATGGACAAAGTGAAAGCTGAAGCAATGGAAATTTTGCTCAGCCGACAAAAGAAGGCTGAA
CTTCTAAAGAAGATGACTCATGTGGCTGTTCAAATGTCAGAGCAGCAA

Sequence 1571
GCAGCCGGCCATGCAGGCCGTCATCCGAACTGACATGGACCAAATTATCACCTCCAAGGA
GCACCTTGCCAGCAAGATCCGAGCCTTCATCCTCCCCAAGGCAGAGGTGTGCGTGCGGAA
CCATGTCCAGCCCTACATCCCATCCATCCTGGAGGCCCTGATGGTCCCCACCAGCCAGGG
CTTCACTGAGGTGCGAGATGTCTTCTTCAAGGAGGTCACGGACATGAACCTGAACGTCAT
CAACGAGGGCCGGCATTGACAAGCTGGGCGAGTACATGGAGAAGCTGTCCCGGCTTGGCG
TACCACCCCCTGAAGATGCAGAGCTGCTATGAGAAGATTGGAGTTCGCTGCGACTGGACG
GGCTGCAGC

Sequence 1572
CCGAACAANGTGGCCACCCAGGTTTTTAACCCAAGTCTAGTGGTCATCCTATTCTTTCCA
CACCAACATGCCAAAAGCCTTACCTNGAAAGAAAATATAATTTGCAAGAAGCATCACAGT
GCCGGGGTCTATATTCTCGATCAGGTTGNTAATTTTCCCATGGGTTTTTTGACTGATAAA
GNCATTGATCTGCTTCTGAGCCATTTCCAAATTCTGAAAGTTGGTAAGGATGGTTTCGGN
ACTGTAAAAGTTCTTGGCATCTTCC

Sequence 1573
CGCGTCCNGGNCGGAGAAGACAGTAGGGATACTGGATATGGGAGGAGCCTCTCTCCAAAT
TGCTTATGAAGTTCCTACCTCAACCTCTGTCCTTCCTGCAAAGCAGGAAGAAGCTGCCAA
GATCCTGCTGGCTGAGTTCAACCTGGGCTGTGATGTGCAACACACTGAACACGTGTACAG
GGTTTATGTCACAACTTTTCTGGGTTTCGGAGGCAACTTTGCCCGGCAGCGCTACGAAGA
CCTTGTTCTGAATGAAACTCTTAACAAAAACAGATTGCTTGGTCAGAAGACAGGTCTGAG
TCCCGACAATCCATTTCTGGATCCCTGCCTGCCAGTGGGACTCACAGATGTGGT

Sequence 1574
CGCCGTCCNGTTTACTTGGAGTGTCCAAAACTGCAAGCAGTAGAGAAATAAGACAAGCTT
TCAAGANNNTGGCATTGAAGTTACATCCTGATAAAAACCCGAATAACCCAAATGCACATG
GCGATTTTTTAAAAATAAATAGAGCATATGAAGTACTCAAAGATGAAGATCTACGGAAAA
AGTATGACAAATATGGAGAAAAGGGACTTGAGGATAATCAAGGTGGCCNGTATGAAAGCT
GGAACTATTATCGTTATGATTTTGGTATTTATGATGATGATCCTGAAATCATAACATTGG
AAAGAAGAGAATTTGATGCTGCTGTTAATTCTGGAGAACTGTGGTTTGTAAATTTTTAC

Sequence 1575
GAGGCGCTCAACCTACCGAGGCGCCCACAACCTGTCCGGCCTGCTGGGCTTGTCCCTGCG
CTACAACAGCCTCTCGGAGCTGCGCGCCGGCCAGTTCACGGGGTTAATGCAGCTCACGTG
GCTCTATCTGGATCACAATCACATCTGCTCCGTGCAGGGGGACGCCTTTCAGAAACTGCG
CCGAGTTAAGGAACTCACGCTGAGTTCCAACCAGATCACCCAACTGCCCAACACCACCTT
CCGGCCCATGCCCAACCTGCGCAGCGTGGACCTCTCGTACAACAAGCTGCAGGCGCTCGC
GCCCGACCTCTTCCACGGGCTGCGGAAGCTCACCACGCTGCATATGCGGGCCAACGCCAT
CCAGTTTGTGCCCGTGCGCATCTTCCAGGACTGCCGCAGCCTTCAAGTTTCTCGACATCG
GATACAATCAAGC

Sequence 1576
GACCACGCGTCCGCGCACCGCTTCATTGAGGCTGCAAGAGCACACGGGCACCCACGTGCT

TABLE 1

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GGTCCACTGCAAGATGGGCGTCAGCCGCTCAGCGGCCACAGTGCTGGCCTATGCCATGAA
GCAGTACGAATGCAGCCTGGAGCAGGCCCTGCGCCACGTGCAGGAGCTCCGGCCCATCGC
CCGCCCCAACCCTGGCTTCCTGCGCCAGCTGCAGATCTACCAGGGCATCCTGACGGCCAG
CCGCCAGAGCCATGTCTGGGAGCAGAAAGTGGGTGGGGGTCTCCCCAGAGGAGCACCCAG
CCCCTGAAGTCTCTACACCATTCCCACCTCTTCCGCCAGAACCTGAGGG

Sequence 1577

CTACACTCAACTTCACCATCTCCAATCTCCAGTATTCACCAGATATGGGCAAGGGCTCAG
CTACATTCAACTCCACCGAGGGGGTCCTTCAGCACCTGCTCAGACCCTTGTTCCAGAAGA
GCAGCATGGGCCCCTTCTACTTGGGTTGCCAACTGATCTCCCTCAGGCCTGAGAAGGATG
GGGCAGCCACTGGTGTGGACACCACCTGCACCTACCACCCTGACCCTGTGGGCCCCGGGC
TGGACATACAGCAGCTTTACTGGGAGCTGAGTCAGCTGACCCATGGTGTCACCCAACTGG
GCTTCTATGTCCTGGACAGGGATAGCCTCTTCATCAATGGCTATGCACCCCAGAATTTAT
CAATCCGGGGCGAGTACCAGATAAATTTCCACATTGTCAACTGGAACCTCAGTAATCCAG
ACCCCACATNCTCAGAGTACATCACCCTGCTGAGGGACATCCAGGACAAGGTCACCACAC
TTTTACAAAGGCAGTCAAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTGAC
GATGGACTTCCGTGTTGGTCACTGTCAANGCATTGGTCTTCTTCAATTTG

Sequence 1578

GCGGCCGCCGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATTGNNNTNCAAT
AGNTTTATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAGC
TTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCTACCAAGA
CGATGATGTTTAGCCGGGCCGAGAGGCTGTACCT

Sequence 1579

CTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTAACCTACCTTTAAGACTGGGATNTCT
ATTGNTAACAATAGCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGG
AGCTTCACAGCTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATG
GCCTACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCTGTACCT

Sequence 1580

CTCCCCGCGGTGGCGGCCGAGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGT
AGGCCNTTNCCCTACCAACTAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGA
AGCTCCTTTCTATTACTCATCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTC
CAATAGTTATCCCAGTCTTAAAGGTAGGTTAGGTACCTGCCCG

Sequence 1581

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTAACCTACCTTTAAGACTGGGATAACTA
TTGTTNAACAATNNCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGG
AGCTTCACAGCTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATG
GCCTACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCTGTACCTGCCCG

Sequence 1582

AGGTACAAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGNTAGGCCNTTACCCTACCAA
CTAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTC
ATCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCT
TAAAGGTAGGTTAGGTACCTGCCCG

Sequence 1583

CCGCGGTGGCGGCCGAGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTTTTNGGC
CATTACCCTACCAACTAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCT
CCTTTCTATTACTCATCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAAT
AGTTATCCCAGTCTTAAAGGTAGGTTAGGTACCTGCCCG

Sequence 1584

TCTTCGANCACGNTTCGGGCGGCTTTTCCCCGGGCAAGGCTTCTAAATCGGGGGGGCTTC
CTTTTAGGGGGTTCCGAATTTAAGTGGCNTATAACGGGCANCCTTCGAACCCCCAAAAAA
AACTTTG

Sequence 1585

TABLE 1
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AGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTNGGTAGGCCATTACCCTACCAAC
TAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCA
TCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTT
AAAGGTAGGTTAGGTACCTGCCCGG
Sequence 1586
CGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATTGGAAACAATAGCTAATAC
CGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAGCTTCACTTAAA
AATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGTT
TAGCCGGGCCGAGAGGCTGTACCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTCGCnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGCCCAACGT
GAACCGGTTACACTTTGCCAAGCGCCCTANCGCCCGGTCCTTTTCGCTTTTCTTTCCTTT
CCTTTTCTTCGGCCACGGTTCNNCCCGGCTTTTTCCCCGTCAAGGCTTNTAAATTCGGGG
GGCTTTCCTTTTAAGGGNTCCCGATTTAAGTGGCTTTANCNGGNAACCTTNGAACCCCCA
AAA
Sequence 1587
AGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAAC
TAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCA
TCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTT
AAAGGTAGGTTAGGTACCTGCCCGG
Sequence 1588
CGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATTGGAAACAATAGCTAATAC
CGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAGCTTCACTTAAA
AATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGTT
TAGCCGGGCCGAGAGGCTGTACCT
Sequence 1589
TACCNCGCGTCCGGGGCCCGGATGCTGGGGGCCACCAGGGCCCCGGGGATGTGCTGGTCT
TCATGGATGCCCACTGCGAGTGCCACCCAGGTTGGCTGGAGCCCCTCCTCAGCAGAATAG
CTGGTGACAGGAGCCGGGTGGTATCTCCGGTGATAGATGTGATTGACTGGAAGACTTTCC
GGTATTACCCCTCGAAGGACCTGCAGCGTGGGGTGTTGGACTGGAAGCTGGATTTCCATT
GGGAACCTTTGCCGGAGCATGTGAGGAAGGCCCTCCAGTCCCCAATAAGCCCCATCAGGA
GCCCTGTGGTGCCCGGAGAGGTGGTGGCCATGGACAGACATTACTTCCAAAACACTGGAG
CGTATGACCCTCTTATGTCGCTGCGGGGTGGTGAAAACCTCGAACTGTCTTTCAAGGCCT
GGCTCTGCGGTGGCTCCGTTGAAATCCTTCCCTGCTCTCGGGTAGGGCACATCTACCGAA
ATCAGGATGCCCCGTCCCCGTTTGACCAGGAGGCCACCTTGAGGAACAAGGTTCGCATTG
CTGAAGACCTGGCTTGGGGTCA
Sequence 1590
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTGATATCCACATATTTTTGAG
AAAAATTCCCAAGCCAGGCGAATGTGGATTGGAATAAAGACATAGGCAGTGTATACCACC
ATAGCAATAATGGTTAGTAAGATGGTGTTAAACATAGATCGCTCCCAGGGCTCTAAAACA
GCACAGCAGCTAATGATTTGGTATTGATAGTAGAGCCAGGAGAAATATTCCTTCACACGC
CTCAAATCCATGGTTGGCTCCTTCAAGCTGCAGTAAGTTTGTCCTAAGAAAGTCCAGGTC
TGGTTCTTCAGCCTTGCTCCTTC
Sequence 1591
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTTGAATATCAATTTCTAAATATTTACCC
AAAAATGTATATTTAAAGTTTTTAACAACTTCTTTTCAATCTTGAAAAAGTTCCCTCATT
TTTTCTTTTAAAATCCCATTAACAATCAATGGTTCTTTTAAAATAGAATAAATATTTTTT
TGTCCATTTAAAGAAGAATATGGATCTTGGAAAATCATTTGAATATTTTTTCTTAAAAAT
AGATTTTGTTTTTTTGTTAATTTGTTTCCAGAAATAACTTCATCTAATAAAGTAACTTGA

TABLE 1
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CCACCGTAAGATTCATATAATCTAATCAAAGATCTACCAACTGGTTGTTTTACCCTGGAT
CCAGATTCACCAATTAAACCTAAAATTTTTCCTTGTTGGATCTAAAATTTTACCGTTATC
AACAGCTTTGACAACCCAAANTTATTGGAAAAATATTTTTTTAAGCTTTGAACTTTTAAG
GGTGGGTTAACTTGCATTA
Sequence 1592
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGG
GTTTCCCTGCTATGTTTTGTCACACATCATTGCTGGGAGAGTTCAGTGCTATCCAAGTGA
CTCCCCGGGGAGAGGACAACTGGAAATTTATGCCTGGTGTCTTCCTGGACTCCGACCTAT
GCACCTTTTTCCTTGGATGATTTTAACCTGTCTCCTTTTGCTGCAATGAACCATAACCAT
GAGTATATCAGCTTTTCTAATTTTTGTGAAGTCCCTCAAGTGAATTATCAAACCTAAGGG
TAGTTTTGGGGACCCCCATCACAGAAGAGGTCAAACAGGGGGCAGG
Sequence 1593
CCGCGGTGGCGGCCCGCCCGGGCAGGTCTCTTGTCTAGTATACTCAAGGCAGCCTAGTAA
ATTATTATTTATCTATACAATACTGGAAAAACTTGTAGACAAAAACATGACTTGAATTGC
TAAAAAAAAAAAAAAAAAAAGAGGGAGAATGAAAACTTCCGGACGCGTGGGTCGAAGCTT
GACCT
Sequence 1594
CCGCGGTGGCGGCCGCCCGGGCAGGTAGGCTGTCTACACTGACATCATCCAGGGCAAGCT
GGACCAGCGAAACCAGCTGCTGGAAGTGGATTTCTGCATTGGCCGTGACATCCGAAAGAA
GGATATCAATAATATTGTCAAGACCCTGCATGAATGGTGTGATGGCTGTGAAGCAGTTCT
ACTGGGCATNGAGCAGCAAGTTCTGAGAGCCAACCAGTACCTT
Sequence 1595
CCGCGGTGGCGGCCGCCCGGGCAGGTTTTTTTTTTTTTTTTCTTTCTGTTCCTTGGACTA
GATAATCTGAAATCAACTGTCTTCAGTTTTGCAGACTCTTGTGCCAGCTAAAATGTTCTG
TTGAGCCCCAGAAGCTAATTTTCTTTTCAGTTATTATGATTTTCAGCTTTAGAATTTATT
TTTTTAATATAATTTCTACCTCTTTTTTTATATTCTCCATTTGGTGAGACATTCACATACT
TTCTTCCAGTTTTTTTTTAGACGTAGTTTCCTTGAGTTCTTTGAGCATATTTAAAATAGTT
GATTTAAAGTATTTGTCTAGTTACTCCACCATCTGAGTTTCCTCAGGGAAAATTTCTATT
GCCTCCTTTTTTTCCTGTGTGTGGTCGGNCCATACGGACGCGTGGGTCGAAGACCT
Sequence 1596
ACTTNNTNTTTTTTTTTTTTTTTTTTTTTTAAGCGCCCGGCATTTTCTAAATAAAATCATTT
TATTTGGNAAAAGGGTTTTAACAGNTATACCTTTCTAGCTAAAAGAAAAGAAATAGCGGG
ATGTACCT
Sequence 1597
AGGTACGAAGAGAAAGGAATCAAAGCCTACTANCTCAAAAAATTGTCAAATTGCAAATGA
GGACATCTAGAGAGGAAGAAAGGAAAAAAGGAACTAAAAAACAGAAACAATTAACAGTAA
GTTCTTAACTATCAATAATTATTTTAAAAGTAAATAGATTAAATTATCTAATCAAAAGAC
ATTGAATGGCTGAATGGATTAAAAAACAAGATCAACTATACATTGCCCATCAGAGATTCA
TTTTAGCTTTAAGGATAAACACTGGTTGAAAGTGAAAAAAGTCAAGGCTGGGCATGGTGG
CTCATGTCTATAATTCCAGCACTTTGGGAGGCCAAGGTGGGCAGATAATCTGAGGTCAGG
AGTTTGA
Sequence 1598
CCGGGCAGGTACCACCTGAAGACCCTCACACTCAACTTCACCATCTCCAATCTCCAGTAT
TCACCAGATATGGGCAAGGGCTCAGCTACATTCAACTCCACCGAGGGGGTCCTTCAGCAC
CTGCTCAGACCCTTGTTCCAGAAGAGCAGCATGGGCCCCTTCTACTTGGGTTGCCAACTG
ATCTCCCTCAGGCCTGAGAAGGATGGGGCAGCCACTGGTGTGGACACCACCGGCACCTAC
CACCCTGACCCTGTGGGCCCCGGGCTGGACATACAGCAGCTTTACTGGGAGCTGAGTCAG
CTGACCCATGGTGTCACCCAACTGGGCTTCTATGTCCTGGACAGGGATAGCCTCTTCATC
AATGGCTATGCACCCCAGAATTTAT
Sequence 1599
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACACAGGACCAATGCTGCC

TABLE 1
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CATCCACATGGAATTTACAAACATTCTACAGCGCAAAAGGCTCCAGACTTTGATGTCAGT
GGATGATTCTGTGGAGAGGCTGTATAACATGCTCGTGGAGACGGGGGGAGCTGGAGAATAC
TTACATCATTTACACCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGG
GAAATCCATGCCATATGACTTTGATATTCGTGTGCCTTTTTTTATTCGTGGTCCAAGTGT
AGAACCAGGATCAATAGTCCCACAGATCGTTCTCAACATTGACTTGGCCCCCACGATCCT
GGATATTGCTGGGCTCGACACACCTCCTGATGTGGACGGCAAGTCTGTCCTCAAACTTCT
GGACCCAGAAAAGCCAG

Sequence 1600

TCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGTTCACTGTCTCATATAATCNCAGCCTCC
TGTGTGATAGCTGGTGTCATCTCCACTTACAGATGAGGAAACTGAGGATAAGCAGGGTTG
AATAACTTGCTCGAGATCACAGAGCCACGGGTGGNGAAACAGGATACAAACCTGGTTCTG
TTTGACTCTAAGACCATTCATNTTTCCTCTGAAACTCAGTATTGCACAGTGTAGAAATGC
AGTTTTTAAGACCTCCCAAAGTGACGTGCTGNGTCACTGCCCATCATTAGCTANATTGAG
TAAATTGCTGCTTAGCCCCANTTGTTTTGACAGAATCAATAGCCCTTGCTGAGGGGCCAN
CAGCCTACGGACACAGGAGCATGCTTCATGGGCAAGACCACCATGCACACTCAGAGGGGA
AGCCACAAGGCAACCTCCACGCCACTTAAGATTTGTAGGGCTCTGAACACATCACCAGAT
ACAGACCACCTACTTATTTTTTNCACTGTAATANCAAAGGCAGGAATCTTTTTNCTGTAG
GGTAAAGTTTGGGGG

Sequence 1601

GGCAGGTACAAGGCCCCAAAGAGGAGGAATTCCTTGTAGAGGAGCTTGTAGATGCTTCCC
CTCCAGCGGAGAAGCAGGCCAGAGAAACCTCCGAAGCGGGCCTCCGCCACTTTGAGAGTG
TATGAAACCGTCATGGTGCTGGGAGCCTGGGGCAGGAGGTCACAAGAGTTGCCCCCAGGG
CTGTCGTTTAGTTCTCCAGACAACCTCCCTTCCACTCTGGTCTCCACACCCCAGCCTTCA
CCCTGCGTCAAGTGGACAAG

Sequence 1602

AGGTACCAGTGGGGACTTCTGAAAGAACNNTACTNGTGTCAGTGGAAAAGCTGGCATTTT
GGGAAATGCTGGTCTCTCTCAGTCCAGGAGTCAAGGAATATGTTGACTCTCTCTTAATTT
TTGTAGTCTCAGAGGAAACAGACATTGATGTGGAAACAGTTGTATGCCCCATGGTGGAGG
TGGTATCCATNGGAGCTGTGGCCTTGGTTTTTTCTGAGTCAGCTAGGACAGAGGATTGTG
ACCCATGTCCAGAACTGGTGGTTTCCACATTAGTCGCTGCTGTGCTTGTGGAAGGATGCA
TGGCTTCTATAGCTGTGGTGTCTTCATCTGTTGTCAGTATCTCATGTGAGGNACCTGCCC
G

Sequence 1603

CCGGGCAGGTACTGTGATATCCACATATTTTTGAGAAAAATTCCCAAGCCAGGCGAATGT
GGATTGGAATAAAGACATAGGCAGTGTATACCACCATAGCAATAATGGTTAGTAAGATGG
TGTTAAACATAGATCGCTCCCAGGGCTCTAAAACAGCACAGCAGCTAATGATTTGGTATT
GATAGTAGAGCCAGGAGAAATATTCCTTCACACGCCTCAAATCCATGGTTGGCTCCTTCA
GGCTGCAGTAAGTTTGTCTTAAGAAAGTCCAGGTCTGGTTCTTCAGCCTTGCTCCTTCGC
GAAATGATCCTGTGTGGGTTAGTTCTCCTCTCTGGGTTGCTGTTTCCTCA

Sequence 1604

AGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACCACCTGAAGGCCCTCACACTC
AACTTCACCATCTCCAATCTCCAGTATTCACCAGATATGGGCAAGGGCTCAGCTACATTC
AACTCCACCGAGGGGGTCCTTCAGCACCTGCTCAGACCCTTGTTCCAGAAGAGCAGCATG
GGCCCCTTCTACTTGGGTTGCCAACTGATCTCCCTCAGGCCTGAGAAGGATGGGGCAGCC
ACTGGTGTGGACACCACCTGCACCTACCACCCTGACCCTGTGGGCCCCGGGCTGGACATA
CAGCAGCTTTACTGGGAGCTGAGTCAGCTGACCCATGGGTGTCACCCAACTGGGCTTCTA
TTGTCCTGGACAGGGATAGCCTCTTCATCAATGGCTATGCACCCCAAAATTTATCAATCC
GGGGGCGAGGTACCTGCCCCGGGCGGGCCGCTTAAAACTAGGNGGGATCCCCCNGGCTTG
CAGGAATTTCGATATTCAAGCTTATCGATACCCGTCCNACCTTCGAGGGGGGGG

Sequence 1605

CCGGGCAGGTACCACNTGAAGACCCTCACACTCAACTTCACCATCTCCAATCTCCAGTAT

TABLE 1

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TCACCAGATATGGGCAAGGGCTCAGCTACATTCAACTCCACCGAGGGGGTCCTTCAGCAC
CTGCTCAGACCCTTGTTCCAGAAGAGCAGCATGGGCCCCTTCTACTTGGGTTGCCAACTG
ATCTCCCTCAGGCCTGAGAAGGATGGGGCAGCCACTGGTGTGGACACCACCTGCACCTAC
CACCCTGACCCTGTGGGCCCCGGGCTGGACATACAACAGCTTTACTGGGAGCTGAGTCAG
CTGACCCATGGTGTCACCCAACTGGGCTTCTATGTCCTGGACAGGGATAGCCTCTTCATC
AATGGCTATGCACCCCAGAATTTATCAATCCGGGGCGAGTACCT

Sequence 1606

CGGCCGCCCGGGCAGGAACNNNNTTTTTTGGGGGGGGGGAAAACCNAGACGGAGCCNCGCN
CAANGGCCCAGGCGGGAGTGNAAGGGCACCAGGGGGGGCNCACCACAAANACCGCCGCCC
GGGNGAAAGCCACNCNCCGGCCNNAGCCNCCGGAGNAACGGGGGGAACAGGGGCAGGCCA
TNTTTTTTTTTTGNGGGGGGNGNANGGGGNGGANNCNCCAGGNAAAAANCANGCNGGCCA
GGGGGGGGGGGAACNCCNGACCTNATGANGCACCCGCCNNGGNCNCCCAAAANGCGGGGA
NNANAGGGGNGAGCCACCGNGCCNAGCNGACGG

Sequence 1607

CGAGTTACCAGAAGGAGAGATCACCACCATCGAGATCCACCGCACTAACCCGTACATCCA
GTTAGGAATCAGCATCGTTGGCGGCAATGAGACGCCACTGATCAACATCGTNATTCAGGA
AGTNTACCGGGATGGGGCCATCGCCAGAGATGGAAGGCTCCTTGCCGGAGACCAGATTCT
TNAGGTCAACAACTGTGATATCATGCAACGTGTCCCATAACTACGCCCGGGCTGNCCTTT
CCCAGCCCTGCAGNACCCTGCACCTGACAGNGCTTCGGGAGCGGCNGCTTNGGCAGTCGT
GCAAA

Sequence 1608

CGAGCCTTTAGATGGCGTCTCCTCAGGGGGGCCAGATTGCGATCGCGATGAGGCTTNGGA
ACCAGCTCCAGTCAGTGTACAAGATGGACCCGCTACGGAACGAGGAGGAGGTTCGAGTGA
AGATCAAAGACTTGAATGAACACATTTGTTTGCTGCCTATGCGCCGGCTACTTNGNGGAT
GCCACCACCATCACAGAGTGTCTTCATACTTTCTGCAAGAGTTGTATTGTGAAGTACCTN
CAAACTAGCAAGTACTGCCCCATGTGCAACATTAAGATCCACGAGACACAGCCACTGCTC
AACCTNAAACTGGACCGGGTCATGCNGGACATCGTGTATAAGCTGGTGCCTGGCTT

Sequence 1609

GCGTCCGACGTCCCCCAGGAGAATGGTAGACACAGATGAGGAAATTGTGGAGATGGGCAC
AAACCGCAAGGTGAAGAAAACGAACAAACACCGAGTTGATACGGATAGTCCCCGTTCCCC
TGAGGGCCGACCCCGTGACTCCCGATGAGCGTCCAGTTGCGCCGGGCATCCCTGGGCCTC
CCAGCGTCTTTCCCGGAGGTTCATCGCCGCACGGCGGAAAGCGCTCTCGGTTCCGCTTTC
CGGCCCCAGCCTCCCGGGCGCCCTCGCGCGGCGGCTAACGCTGGTCCTCGGCCGGGCGCG
CTGACGTCATCGTGCGTCAGAGTGAGCCCGGATGGGGCGGCGGGCTTCGGGAGCGCCCGG
GCTGATCCGAGCCGAGCGGGCCGTATCTNCTTGTCGGCGCCGCTGATTCCCGGCTCTGCG
GAGGCCTCTAGGCAGCCGCGCAGCTTNCGTGTTTGCTGCGCCCGCACTGCGATTTACAAC
CCTGAAGAATCTTCCTATCCCTAT

Sequence 1610

CGCGTCCGGCGGCGGCGGCTGAGGAGGGCCCGGCCTGCGAGAGCCTCAGTGGGAGCCGGC
TCAGCCCTCGGCCACCATGTCGGCGCCGTCGGAGGAGGAGGAGTACTGCGCGGCTGGTGA
TGGAGGCGCAGCCGGAGTGGCTGCGCGCCNAGGTGAAGCGGNTGTCCCACGAGCTGGCCG
AGACCACNCGTGAGAAGATCCAGGCGGCCGAGTACGGGCTGGCGGTGCTCGAGGAGAAGC
ACCAGCTCAAGCTGCAGTTCGAGGAGCTCGAGGTGGACTATGAGGCTATCCGCAGCGAGA
TGGAGCANCTCAAGGAGGCCTTTGGACAAGCACACACAAACCACAAGAAGGTGG

Sequence 1611

CGCGTTCGAGTCTGGAGACGACGTTNCGAAATGGCACCTCGCAAAGGGGAACGGAAAAGA
AGGAATGAACAGGTCATCAGCCTTGGACCTCAGGTGGCTGAAGGAGAGAATGTATTTGGN
GTCTGCCACATCTTTGCATTCTTCAATGATACCTTTGTCCATGTTANTGAACTTTCTGGC
NAGTGAGTACTTCAGAAAGGCATNAAACANGCCTCAAAGGGAC

Sequence 1612

CCCCGCGTCCGCCCACGCGTCCGGGCTCGGCTGCACCGGGGGGATCGCGCCTGGCAGACC

TABLE 1
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CCAGACCGAGCAGAGGCGACCCAGCGCGCTCGGGAGAGGCTGCACCGCCGCGCCCCCGCC
TAGCCCTTCCGGATCCTGCGCGCANAAAAGTTTCATTTGCTGTATGCCATCCTCGAGAGC
TGTCTAGGTTAACCGTTCGCACTCTGTGTATATAACCTCGACAGTCTTGGCACCTAACGT
GCTGTGCGTAGCTGCTCCTTTGGTTGAATCCCCAGGCCCTTGTTGGGGCACAAGGTGGCA
GGATGTCTCAGTGGTACGAACTTCAGCAGCTTGACTCAAAATTCCTGGAGCAGGTTCACC
AGCTTTATGATGACAGTTTTCNCATGGAAATNNGACAGTACCTGGCACAGTGGTTAGAAA
AGC

Sequence 1613

GTTNAGTNGAAGTTCTCTACCATTGAATCAGTGAACTAGAAAGATCTGATTTGGCCTGGG
ACCAGTGTTCAAGTTGGTTTGGTCTTTATTAAAAATCACAATATTCCGAAAACAAAAAAA
CCTAGGAGATAAATGTAGAGGTATTGACTTTTCGTATCTTTTATCTTCACACTGAAACAA
GAGCTATCCTATTTGATTATTAAAGTGAGCTATGTGTTAAGTGCCAGGACATTTCTAGCT
TTTGTGAGAATGTGTCTACATATGAGTATAATAAACCCACATGTATACACAATTGTCTCT
TATGTACTCCTACCTGGCAGGAGTCTTTG

Sequence 1614

CGCGCCGGTGGTGCGATCTCGGCTACTGCAACTTCAGCCTCCTGGATTCAGGCAACACTC
CTGCCTCAGCCTCCCACGTGGCTGGGATTACAGGTGCCTGCCCCCATGGCTAATTTTTTG
TATTTTTTGTAGAGATGGGGTTTCACCATGTTGGCTGGGCTGGTCTCACTCTCCTGACCT
CAAGCAATCTGCCTGTCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCC
CCCAGCCTGAGCCTTTTTTTTTTTCTAATGCATCCAAGGTTAAGGGGAAGACGCAAATAA
CAGGACTATTCTAAAAGGAAACCTGTTTGAACTCTGTGAGATCAAGTCATCAGTCTCAGT
ATTNCACAGGCACACCTTAATTTCATTGGTAAAAGATATATATATTTTGNCTATTTTTGN
GCTTTTGGGGGCCTATTTTGNGCTTTTTTACCTTTAATGNAAGAAGANCTTAATACCAAA
GTGGATTTTTTTACCA

Sequence 1615

TCGCCNCGCGTCCGTAGAAACTCACACTAGACACACGCAGTAGTCATACGTCTTCACACG
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TCTGGAGCTAACTGTGGAGCAGCCAAATAGTAGCTGGCATGTTGATTCAAACCATGGGCT
GAATTTGCTCATAGGCTGTGCATCAGACAAAAGCTTGAATATTTGTGTTGTATGCTTGTT
CCAACCACCGCTTGTGTGAGCATTTTTGTGGCTTGTACAGAAAGTACACTTTTAAATTGT
CTCTTGCATCACTAAAATTTTTTTTAAAATGAGCATAACAACGAAAGGCATCCAGCTGACT
TTTTGATTCCAAGATTATTGATTGGATTGACTTTTTTGCATTAAATTTTTCCCAGCAAAA
TAAATCATATGGCGAGTCAGGGAATAAAAAAGTCAAAAAGGAAACAAATAGAAGCTTTTT
TTTTTTAAAAA

Sequence 1616

GGNCGAGCGCGCCTTGCGGGGGCGGTATCCCGGCGCCCTAAGACCCCACGACCNCNNGCA
CCGGCCGNTGCTGCNAGACCCCGGCCCGNGTCGGTCCGATGTCGCCCCCCGGNCCCGGCG
GAAACGCCTCCCTNCTGGCCAGGCTGTTCNAGCACCCGCTT

Sequence 1617

TCGCCACGCGTCCGTTNAGATGCAGAAATGAAAAAAAAACACCTTTGTTTTATAAATATC
AAAGTACATGCTTAAAGCCAAGTTTTTATCTAGTTTATTCTAGTACTTAGCTTGCCTGGA
ATAGCTAATAAATTATTCATGTATGTGCTTTTGAAAATCCAGAGCCCTATTTTTACACAC
TTGTGTGAAGTTGGCAAACATTTTGAAAAATGGAAAAAAGTTTCTAATAATTGGGAACAA
TTACATTAATTAATATTTTGTAAAATATTGAAGCTTTTAGCCCTATGTCAATTTGTAGAT
TAAAATAAATTAATTATAGGAAAGGAAGATAACAGTGAGAAACCAAACATTAC

Sequence 1618

CACGCGTCCGCCCACGCGTCCGGCGCGGCGGGAGCGGGCGGNGCGAGCGGGAGGCGGCGG
CTCACAACTGAAGCGCTGNGGCATGGNGCGCGCCTGCCTCCAGGCCGANNNGTACCTNAT
GTTCGCCTTCAACCTGCTNTTCTGGCTGGGAGGNNGTGTGNGGGCTGGNTGTCTGGCNTC
CTGGCTTGGGC

Sequence 1619

TABLE 1
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TCGCCACGCGTCCGGACCTGGATGTGAGGGTGAANGGGCTGTGCTGCTGGGAGCCACATT
CCTCATTGACTACATGTTCTTTGAGAAGCGAGGAGGCAGCTGGGCCCTCTGCCATCACCA
GTTAGAGGCCACCATGGTGTGAGGAGACCATCACCTCGACCAGAACTCCAGATGGTCACC
TGCCCTGGCCCCTCCTCTGGGCAGCCCCTTTCCTCCATGTACACTGCAGGGGACAGAAGG
GGGGCCCCATCCCTACCCTACTCCCTGGCCGCCTGCCCCTGTGGTTCCCAAGGAAGGGGG
TATTGTATTGAGAGCCGCTCTCCTGCTACCTCCCACCACTGTCCAACAGTCCCTCGGCAC
ACAGGCATATTAAGCTTTCACACTTTTCCCATGCACTTTTTTCCACCCC

Sequence 1620
GGAGTCGACCNCGCGTCCGGGGGCTTGCTGGGATCATGGCGGAGAATCACTGCGAGCTCC
TGTCGCCGGCCCGGGGCGGCATCGGGGCGGGGCTGGGGGGCGGCCTGTGCCGCCGCTGCA
GCGCTGGGCTCGGCGCCCTGGCCCAGCGCCCTGGCAGCGTGTCCAAGTGGGTCCGACTCA
ACGTCGGCGGCACCTACTTCCTCACCACTCGGCAGACCCTGTGCCGGGACCCGAAATCCT
TCCTGTACCGCTTATGCCAGGCCGATCCCGACCTGGACTCAGACAAGGATGAAACAGGCG
CCTATTTAATCGACAGAGACCCCACCTACTTTGGGCCTGTGCTGAACTACCTGAGACACG
GCAAGCTGGTGATTAACAAAGACCTCNCGGAGGAAGGG

Sequence 1621
GTCGCCCCGCGTCCGGGGCCCGCGGGCCTCGCCTCCGCCCTCCGCCACCTCGAGCTGCGG
TAGCAGCGACTCATGAGAGCGCGGCCGGAGGACAGATTTGATAATGGGCTGCATTAAAAG
TAAAGAAAACAAAAGTCCAGCCATTAAATACAGACCTGAAAATACTCCAGAGCCTGTCAG
TACAAGTGTGAGCCATTATGGAGCAGAACCCACTACAGTGTCACCATGTCCGTCATCTTC
AGCAAAGGGAACAGCAGTTAATTTCAGCAGTCTTTCCATGACACCATTTGGAGGATCCTC
AGGGGTAACGCCTTTTGGGAGGTGCATCTTCCTCATTTTCAGTGGTGCCAAGTTCATATC
CTGCTGGTTTAACAGGGNGGNGGTACTATATTTTGNGGCCTTATATGATTATGAAGCTAG
AACTCCAGAAAGACCTTTCATTTAAGAAGGGTGAAAGATTTCAAATAATTAACAATACNG
AAGGAGATTGGTGG

Sequence 1622
TTCGGGAGTCGCCCCGCGTCCGCTTTTAGAAAAGGCCAATATACCTATCACACTTTGGAA
GTAAAAATACACACTTTCGTGTGTACCTAAAAAAAAAATCGTTGAAAATCAAGGCCAAAG
GTAGTGCAATTTTTTCATTAAGATTTAAAAAAAAGGGAATGATAGTCTTTGAAAGAAAAC
AGTAGGCATCCAGCACTGGACAAAACATGGGTATCAAAGATGAATAATCTTTGGAGATTC
TGGCAGTGTTTTCCCAGAACAAGTCAAGTGGAAAGTGGAGAAATTATCTGTATAATTTTG
GACACATACAATGGCAGTTTATCAAAGGGTTTTGTTCTGTGGCCTGAATTTACTGGGGTC
CTACCTACACATTGAACATGTTTTGGCTGGCTTTTTTTTTTTTTTCAACTTGCCAGTTT
CACTTTACATGGTTAGTAATAAATGGTTTCCACGGGGTGAGTTGGGATAAAATTNTTNAA
AACATNTTAAATTCCA

Sequence 1623
GGAGTCGACCNCGCGTCCGAGCCGGGCCGGGGCGATGTGGAGCGCGGGCCGCGGCGGGGC
TGCCTGGCCGGTGCTGTTGGGGCTGCTGCTGGCGCTGTTAGTGCCGGGCGGTGGTGCCGC
CAAGACCGGTGCGGAGCTCGTGACCTGCGGGTCGGTGCTGAAGCTGCTCAATACGCACCA
CCGCGTGCGGCTGCACTCGCACGACATCAAATACGGATCCGGCAGCGGCCAGCAATCGGT
GACCGGCGTAGAGGCCGTCGGACGACGCCAATAGCTACTGGCGGATCCGCGGCGGCTCGG
AGGGCCGGGTGCCCGCGCGGGTCC

Sequence 1624
CGCGTCCGGGGCAGCCGCGCCCGCGGAGTTTTCCGCCCGGCGCTGACGGCTGCTGCGCCC
GCGGCTCCCCAGTGCCCCGAGTGCCCCGCGGGCCCCGCGAGCGGGAGTGGGACCCAGCCC
CTAGGCAGAACCCAGGCGCCGCGCCCCGGGACGCCCGCGGAGAGAGCCACTCCCGCCCACG
TCCCATTTCGCCCCTCGCGTCCGGAGTCCCCGTGGCCAGATCTAACCATGAGCTACCCTG
GCTATCCCCCGCCCCCAGGTGGCTACCCACCAGCTGCACCAGGTGGGTGGTCCCTGGGGG
AGGTGCTGCCTACCCTCCTCCGCCCAGCATGCCCCCCATCGGGCTGGATTAACGTGGCCA
CCTATGCGGGGGCAAGTTCAACCAGGGACTATCTTCTCGGGAATGGCGGCCAACATTGTC
TGGGGACATTTGGAGGGAGCCAACATGCCCAAACCTGGACCCTGGGGCCCCTGGGGGCTG

TABLE 1
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Sequence 1625
CACGCGTCCGGCGCCGCTCCCGCATCTGCACCCGCAGCCCGGCGGCCTCCCGGCGGGAGC
GAGCAGATCCAGTCCGGCCCGCAGCGCAACTCGGTCCAGTCGGGGCGGCGGCTGCGGGCG
CAGAGCGGAGATGCAGCGGCTTGGGGCCACCCTGCTGTGCCTGCTGCTGGCGGCGGCGGT
CCCCACGGCCCCCGCGCCCGCTCCGACGGCGACCTCGGCTCCAGTCAAGCCCGGCCCGGC
TCTCAGCTACCCGCAGGAGGAGGCCACCCTCAATGAAGATGTTCCGCGAGGTTGAGGAAC
TGATGGAGGACACGCAGCACAAATTGCGCGCGCGGTGGAAGAGATGGAGGCAGAAGAAGC
TGCTGCTAAAGCATCATCAAGAAGTGGAACCTGGCAAACTTAC
Sequence 1626
CCACGCGTCCGGCCGGGGGGTGCCCCCGGGACGTAGCGCCGCGGAGAGGAAGCGGCAAAG
GGGACCATGCGGCGCCTGACTCGTCGGCTGGTTCTGCCAGTCTTCGGGGTGCTCTGGATC
ACGGTGCTGCTGTTCTTCTGGGTAACCAAGAGGAAGTTGGAGGTGCCCGACGGGACCTGA
AGTGCAGACCCCTAAGCCTTCGGACGCTGACTGGGACGACCTGTGGGACCAGTTTGATGA
GCGGCGGTATCTGAATGCCAAAAAGTGGCGCGTTGGTGACGACCCCTATAAAGCTGTATG
CTTTCAACCAGCGGGAGAGTGAGGCGGGATCTCCAGCAATCGGGCCATCCCGGACACTCG
CCATCTGGAGATGCACATGGCTTGGTGTATTGGACGGGACCTTCCACCCACTT
Sequence 1627
GCCACGCGTCCGCCGCCCGCTTGCCCGTCGGTCGCTAGCTCGCTCGGTGCGCGTCGTCCC
GCTCCATGGCGCTCTTCGTGCGGCTGCTGGCTCTCGCCCTGGCTCTGGCCCTGGGCCCCG
CCGCGACCCTGGCGGGTCCCGCCAAGTCGCCCTACCAGCTGGTGCTGCAGCACAAGCAGG
CTCCGGGGCCGCCAGCACGGCCCCAACGTGTGTGCTGTGCAGAAGGTTATTGGCACTAAT
AGGAAGTACTTCACCAACTGCAAGCAAGTGGTACCAAAGGAAAATCTGTGGCAAATCAAC
AGTCATCAGCTACGAGTGCTGTCCTGGATATGAAAAGGTCCCTGGGAAGGANGGGGGCTT
GTCCAAGCAAGCCCTACCACTCTCAAACCTTTACGAGACCCTGGGNAGTCGNTTGGATCC
ACCACCACTCAAGCTGTACACCGACCGCACGGAGAAGCTGAGGCTGAATGGGGAGGGGCC

Sequence 1628
CCTAAGGGCAACAAGGGCGGTCCTGGCCAGCCGGGCTTTGAGGGAGAGCAGGGGACCAGA
GGTGCACAGGGCCCAGCTGGTCCTGCTGGTCCTCCAGGGCTGATAGGAGAACAAGGCATT
TCTGGACCTCGGGGAAGCGGAGGTGCCGCTGGTGCTCCTGGAGAACGAGGCAGAACCCGG
TCCACTGGGAAGAAAGGGTGAGCCCGGAGAGCCAGGACCAAAAGGAGGAATCGGCAACCG
GGGCCCTCGTGGGGAGACGGGAGATGACGGGAGAGACCGGAGTTGGCAGTGAAGGACGCA
GAGGCAAAAAAGGAGAAAGAGGATTCCCTGGATACCCAGGACCAAAGGGTAACCCAGGTN
AACCTGGGCTAAATGGAACAACAGGGACCCAAAGGCATTNAGAGGCCCGAAGGGGA
Sequence 1629
AGTCGCCCCGCGTCCGCTGTGCCTGAAGGAGACTGGTTTTGTCCAGAATGTCGACCAAAG
CAACGTTCTAGAAGACTCTCCTCTAGACAGAGACCATCCTTGGAAAGTGATGAAGATGTG
GAAGACAGTATGGGAGGTGAGGATGATGAAGTTGATGGCGATGAAGAAGAAGGTCAAAGT
GAGGAGGAAGAGTATGAGGTAGAACAAGATGAAGATGACTCTCAAGAAGAGGAAGAAGTC
AGCCTACCCAAACGAGGAAGACCACAAGTTAGATTGCCAGTTAAAACAAGAGGGAAACTT
AGCTCTTCTTTCTCAAGTCGTGGCCAACAACAAGGAACCTGGAAGATACCCTTCAAGGAG
TCAGCAGAGCACACCCAAAACAACTGTTTTCTTCTAAAACTGGGTAGAAGCCTAAGAAAG
ATAAACTCTGCTCCTCCTACAGAAACAAAATCTT
Sequence 1630
TNCGGGCCTGGTGAGCACCGCCGAGGCGCGGGCCAGCTCTTCGAGGTTGTGCGCGGGAGT
GGCACGGCGGGCCGGGCCGAGCGAGGGGCTAACTTCAGCGGTGGCACCGGGATCGGTTGC
CTTGAGCCTGAAATCATGACCACCCCAGGAAAAGAGAACTTTCGCCTGAAAAGTTACAAG
AACAAATCTCTGAATCCCGATGAGATGCGCAGGAGGAGGGAGGAAGAAGGACTGCAGTTA
CGAAAGCAGAAAAGAGAAGAGCAGTTATTCAAGCGGAGAAATGTTGCTACAGCAGAAGAA
GAAACAGAAGAAGAAGTTATGTCAGATGGAGGCTTTCATGAGGCTCAAGATTAATAACAT
GGGAGATGGCCCAGGGTGGGTGTCATCACTTCTGACATGATTGAAATGATATTTTCCAAA

TABLE 1
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AGCCCAGAGCAACAAGCTTTCAGCAACACAAGAAATTCAGGAAGCTGCTTTCAAAAAGAA
CCTAA
Sequence 1631
CGGAGTCACCACGCGTCCGGGGCTGCCAAGGGAGGAGGAAGATGGCGGCGGGGGCGAGGT
GAGGTGTTGGCAGTGGAAAGGGGTTCGGGCTCGGGGGGCGGGGGGACGCGGAGCGATGGC
CCGCGCCGGCCGCAGGGGCGGATAAAAAGCCGTCGCGCTGCGGGAGTGGGCGGGAGGGAG
AGGGGGTGTCCGAGGGCCACAAGAGTATGACGGGGCTGTACGAGCTGGTGTGGCGGGTGC
TGCACGCGCTGCTCTGTCTGCACCGCACGCTCACCTCCTGGCTCCGCGTTCGGTTCGGCA
CCTGGAACTGGGATCTGGCGGCGCTGCTGCCGCGCCGCCTCTGCGCGGTCCTAGCGCCGC
TCGGCTTCACGCTCCGCAAGCCCCCGGCAGTCGGCAGGAACCGCCGTCACCACCGGCACC
CGCGCGGGGGGGTCGTGCCTGG
Sequence 1632
CGTCCGTTTGTTTAATATTTTTTTTCTCTCTTGAACAAAACTGAGATAATTTAGAAAACA
GGTGCTTAATTGCAATAAAATTACTATGAAGTATATTAAAAATCACGACATTGTAAAATC
TCACTTTAGATCATCAAAGAAAACCATTGTTACTATCTCCTTTGAGCTTAGGAAAATGTA
CAAGAGAACAAATTAAAATTGAAAAATTGATTTCACTTAGAAAAACTTCTAGGAACAGGG
TGAACCACTGATTTTAATTTGCCTAATTATCTTATGACAAGTATCAAATTAAGATGACAC
TTAAAGGATCCTTAGCATTTAACTTAATGATGGAGAAAGAGTGCTCAATAGGACAGTTCC
CCAGTTAAGGGGTAATGGAGATGCCCATTTTCAGGAGGACCATTCTAAGAAGATATTTTT
GGATTCATTAAAAACATTTAAATAAAAAGCCCTTCTTCAAGATTGGGAAC
Sequence 1633
CGCGTCCGCCGGCCTGGTGCACGCGGCGCACCGAGGCCTCCCGCAACGCCGCCGACAAGG
AGCGGGCGGCGGGCGGCGGCGCCGGCAGCAGCGAGGACGACGCGCAGAGCCGCCGCGACG
AGCAGGACGACGACGACAAGGGCGACTCCAAGGAAACGCGGCTGACCCTGATGGAGGAAG
TGCTCCTGCTGGGCCTCAAGGACCGCGAGGGTTACACATCATTTTGGAATGACTGTATAT
CATCTGGATTACGTGGCTGTATGTTAATTGAATTAGCATTGAGAGGAAGGTTACAACTAG
AGGCTTGTGGAATGAGACGTAAAAGTCTATTAACAAG
Sequence 1634
CCCCGCGTCCCGGTTGGCCGGGCGGAGGTCTTCGCTGAGGCCCGGGGCGGGGTGGCGCCA
CCCCTGATTGCGGTGCCACGGACTGCTCCTGCTGGGCGGAGAGGACAGATTTTGCAAAGC
GGAGGCTTGCGACGGGTCCTGCAGGGGGACAGTGAGGAAAGGGCCCGCCTCGTNTCCGCT
CCTGGGGGACCCGCAGAAATAAGAATCAAACTCCACAATGACAACCTATTTGGAATTCAT
TCAACAAAAATGAAGAACGAGAATGGGAGTCCCGATTTAGT
Sequence 1635
CCACGCGTCCGGGCGGGGCCATCCAAGCAACGCTGAAGGCCTTTTCCAGCAGCTGGGAGC
TCCCGGATTGCGTGGCACAGCTGAGGGGCCTCTGTGATGGCTGAGCTCTCTTATGTCCTA
TACTCACATCAGACATGTGATCATAGTCCCAGAGACAGAGTTGAGGTCTCGAAGAAAAGA
TCCATGATCGGCTTTCTCCTGGGGCCCCTCCAATTGTTTACTGTTAGAAAGTGGGAATGG
GGTCCCTAGCAGACTTGCCTGGAAGGAGCCTATTATAGAGGGGTTGGTTTATGTTGGGGA
GAATTGGGCCTGAATTTCTCCACAGAAATAAGTTGCCATCCTCAGGTTGGCCCTTTCCCA
AGCACTGTAAGTGAGTGGGGTCAGGCAAAGCCCCAAATGAGGGGTTGGTTTAGATTCTGA
CAGTTTGCCAGCCAGGCCCCACCTCAGCGTCTGTCGAACAAACAAAGNTNGGGNGGGTTT
N
Sequence 1636
CCNCGCGTCCGCGGACGCGTGGGCGGACGCGTGGGCTTCTGCAGCAAGCTCAGGAGAGCT
GCTGTCTTCCCTCCCGCCCACCAGCAACGCACCCTCTGACCCTGCCACAACTACTGCAAA
GGCAGACGCTGCCTCCTCACTCACTGTGGATGTGACGCCCCCCACTGCCAAGGCCCCCAC
CACCGTTGAGGACAGAGTCGGCGACTCCACCCCAGTCAGCGAGAAGCCTGTTTCTGCGGC
TGTGGATGCCAATGCTTCTGAGTCACCTTAACTTTGAACCATTCTTTGGAATTGGCGTGG
TATATTTAACCACGGGAGGCGTGTCTGGAAACGCAAACTATCATTAATTTCATACTAGGT
TTGTACCGTATCTGTAGGCATTCCTGTAAATAATTCCAAGGGGGAAAACTAAACNGGGAC

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GTGGGGTTGTATCCTGCCAGGTTTGAGTGGGGGCTCACACCTAGGGTGAGAAGTCAGAAA
GCGCTTGTATTTTAAACAACCAAAAAGAATTGAAAGGGTG
Sequence 1637
CGTCCNATAGGCTTGCACACTTTTCTAACTACATGTTTAAGTGGCAGAGTCCAGGCTGTC
GAGTCACGGTTGGGTTTGAATCTGACTCCACCAGTAACTTTGGTTGGAAAAAATCACTTA
TCCTCTTTAAGCTTGATTTTATTTATTTTATTTTATGTAAGAGTGAGACAGTAGTAGCTT
AATAGGGTTGCTTTTAAATTAGAGTGAACATGAGGCATTTATTCGGTGCCAGACAGATAA
CTGCCTATAACAGGATGTGATCAGCACAAGTAACAGAAAATTAGCCTGGACGGTGGCTTA
AGCAATGGGGAATGTTTATCTCACATAGCAAAAAGGTCTGTAAATAGGATGGTTTTAGAG
TTGGGGTGGGGAAGCCAAAAATGTCATCAGGATTTCCTTGGAACCCGT
Sequence 1638
CGCGTCCGGATTAATACAACTCTTAAAAAATATAGTCAATAGGTTACTAAGATATTGCTT
AGCGTTAAGTTTTTAACCGTAATTTTAATAGCTTAAGATTTTAAGAGAAAATATGAAGAC
TTAGAAGAGTAGCATGAGGAAGGGGAAGAAAAGAAGGGGAAGAAGATCAAAGAAGGAAAG
AAGAAGGGGAAGAAAAGAAGGGGAAGAAGATCAAAACCCACCATGCCCCAGGCTCAGCAG
GGAGCTGCTGGATGAGAAAGGGCCTGAAGTCTTGCAGGACTCACTGGATAGAAGTTATTC
AACTCCTTCAGGTTGTCTTGAACTGACTGACTCATGCCAGCCCTACAGAAGTGCCTTTTA
CGTATTGGAGCAACAGCCGTGTTGGCTTGGCTGTTGACATGGATGAAATTG
Sequence 1639
CGCGTCCGGCTCCCCGCACCCCCTCGCACTCNCTCTGGCCGGNCCAGGGCGGCCTTCAGC
CCAACCTTGCCCAGCCCCACGGGCGCCACGGAACCCGCTNGATCTCGCCGCCAACTGGTA
GACA
Sequence 1640
GTCGCCACGCGTCCGGCGGCCGGGCCGGGGCAGCCGGGAAGCGGGTGGGGTGGTGTGTTA
CCCAGTAGCTNCTGGGACATCGNTCGGGTACGCTCCACGCCGTCNCAGCCACTGCTGTGG
TCGCCGGTC
Sequence 1641
CGTCCGCTCCTCCCGCCTGAGGCGAGTCTGGGCTCAGCCTAGAGCTCTCCGGCGGCGGCG
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CTCCCCCTTCCTCCTCGCCATCCTACTCCTCCCTCCTCGTCATCCTCCCCCTTCGTCCTC
CTCGCCTTCCTCCTCCTCGTCAGGCTCGACCCAGCTGTGAGCGGCAAAGATGGGCGGCGC
CCAGGCCGCCGCCTGCCAGGCTGTCGGGGCGTCATGGTGCCGGCGCCCATCCAAGACCTG
GAGGCCCTGCGCGCGCTCACGGCGCTCTTCAAAGGAGCAGCGGAACCGAGAAACAGCACC
CAGGACTATCTTCAAAAGGAGTTCTGGATATCCTAAAGAAATCTTTCTATGCTGTTGAGC
TTGCCTGCANGAGATCCATCCCAAGTGGAAAACCT
Sequence 1642
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AAGCGGCGGAAGGAGGAGGAGGTGCAACAGCCAAAGTTGGCAGAGGAGAGACGGCGGCAG
AATTTACAGGAGGAAAAGGAAAGGAAGTTGGAATGCCTGCCCCCTGAACCTTCCCCTGAT
GACCCTGAAAGTGTCAAGATCATCTTCAAATTACCTAATGATTCTCGAGTAGAGAGACGA
TTCCACTTTTCACAGTCTCTAACAGTAATCCACGACTTCTTATTCTCCTTGAAGGAAAGC
CCAGAAAAGTTTCAAGATTGAAGCCAATTTTCCCAGGCGAGTGCTGCCCTGCATCCCTTC
AGAGGAGTGGCCCAATCCCCCTACGCTACAGGAGGCCGGACTTAGCCACCAGAAGNTCTT
TTTGTTCAGGACCTAACTGACGAATGACATTTTTTTCTTTCTGTCCCCTCCTACCCCAGT
CCCTAAAAGAAATGGGGNAAAAAGGAAACAACAGCAGTCNTAAAAAAAAAA
Sequence 1643
CGCGTCCGGAGGGGCTAAGAAGGTTGTCCTTGCCTAATGCTCTGATCTGTAAGTGAATAG
GGCAGAACAGTTCAGCCTTGAGGTTAGAATTTAGCAGGAGCTATCCTGACTTAATATCCA
GTTGTGGGGTTTGCAAAACAAAACAGCTGTATGTAATCATTGCCACTAGTTCCATCTAGA
ACTCCTTTCTAGTTTGTTATTTTTAAAATGTTTATACATAAAACCACCAAAATACATAGC
TTCGACAAGATGGAAGTTTATTTCTCTCTCCCATAACAGTGCAGTGATAGTCAGCTGGTC

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CAGGCCAGGCAAGGGGCTGGTCCATGATGTCATCAGGCACCCAGGTTCCTACTGGCTTTG
CATGTGGCCACAGTTAGCAACAAANGGAGGCTGTAAATTT
Sequence 1644
CGCCACGCGTCCGGTGATGCGGACCCCGGGCGGGCGCAGGGCGCGGGCTCCGGCGCCGCC
GCTGCGTCCTCCCCGGCCGCGGGCGAGCCGCTGCAGAGGGAGCGTCGCGCCGGGGCGGAG
TGCGGGCTTGCGCGGCAAGTGCGCGCCGAGGTCACGAAATGGATTGGAGTGAACCGGAGA
CCCCGAAAACGGAAGCGCAGGGAGAAGGAAGAGGTGTTTGAAAAGCTTCTTCCAGACCAG
CTGGTCTTGCTTCTGGAGCATCTCTTGGAGCAGAAGACTCTGAGCCCCCGAACTCTGCAA
AGCCTCCAGAGGACATACCACCTCCAGGATCAGGATGCAAGAGGTTCGCCATCGGTGGTG
TGAACTCATTGTTAAGCACAAGTTCACGAAAGCCTACAAAAGTGTGGAGAGGTTCCTTCA
GGGAGGATCAGGCCATGGGGTGTGTACCTCTACGGGGAGCTGATGGTTGAGTGAGGACCC
CAGAC
Sequence 1645
TCGCCACGCGTCCGGGACATCGAGTNCGGGCTGGCTACGAACTCCTCGGGGGCGAAGGTG
GCGGAGAGGGATGGGTTCCAGGACGTCCTGGCGCCCGGGGAAGGCTCGGCGGGACGGATT
TGCGGTGCGCAGCCAGTGCCGTTCGTCCCTCAGGTGCTTGGCGTGATGATCGGGGCCGGA
GTGGCGGTGGTGGTCACGGCCGTGCTCATCCTCCTGGTGGTGCGGAGGCTGCGAGTGCCA
AAAACCCCAGCCCCGGATGGCCCCCGGTATCGGTTCCGGAAGAGGGACAAAGTGCTCTTC
TATGGCCGGAAGATTATGCGGAAGGTGTCACAATCCACCTCCTCCCTCGTGGATACCTCT
GTCTCCGCCACCTCCCGGCCACGCATGAGGAAGAAACTGAAGATGCTCAACATTGCCAAG
AAGATCCTGCGCATCCAGAAAGAGACGCCCACGCTGCAGCGGAAGGAGCCCCCGCCCGCA
GTGCTAGGAAGCTGAC
Sequence 1646
TCCGCCAAGTCCTGCGATGATGGACTCAACACCTTCCGCGACGAGGGGCCGGGTTCTGCG
GCGCCTGCCAAACCGCATACCCAGCCTGCGGATGCTCCGGAGCTTCTTCACCGACGGGTC
CTTGGATAGCTGGGGCACCTCTGAAGATGCTGACGCTCCTTCTAAGCGACACTCAACCTC
TGACCTCTCAGATGCGACCTTCAGCGATATCAGGAGAGAAGGCTGGTTGTATTATAAGCA
GATTCTCACCAAGAAGGGGAAGGCTGAGGACCGGGATGACATGCTGGGCTGGATCAGAGC
GATCCGGGAGAACAGCAGGGCCGAGGGCGAGGACCCCGGCTGTGCCAACCAAGCTCTGAT
CAGCAAGAAGCTTAATGATTATCGCAAAGTGAGCCATAGCTCTGGGCCCAAAGCTGATTC
CTCCCCCAAAGGCTCTCGCGGCCTGGGGGGCCTCAAGTCTGAGTTCCTCAAGCAGAGTGC
GGCCACGTGGCCTCANGACTCAAGACCTGCCCGCAGGGAGCAAGGATGACAGTGCTGCAG
CCCCCAAAACCCC
Sequence 1647
GGTGTCGCCCCGCGTCCGGTTTCTTCCTAATTTATATTTCCGATACATANGTGTAGAACA
GGAATTTGCAGAAGCCATTTAAGTTATCTTTTGAGGTAANGCTCTGATTTAGCATTTATT
CTGATAAAATCTAATACATCATGGGATATATATAAAGCAACTTAATTCTTGTGGTGTAGT
CTTAATAGTTTTGAATGTTGACTGAATGTCTATAAAATTGTGAGTTTGTCTTTGTTACAT
TCCAGTGTTTCTGCCTCTTGGCATGCTTAAAGCACGGCTTACTTCATCTGCTCCTTACAC
ACTAAAATGCTGTTAGTGTGCTCAACTACAGAAATAGCCGCTGCTAAGTTGATGTAGATT
TTCTACTTGAATATTTTTATGGTTGTAGGAACCTCAGGAGGGTCAGTGTTTACTGGTTTA
TATATGCCTTCTTTTTCCTGTTTGAGCTTCTCTCTTTGAAGGGATTCTAACAGAACAAAA
GCTGCTGATCACCCTAAGTTGGAAACAGNAAAGGNGTAATTAATATAACTTAATGC
Sequence 1648
TCACCACGCGTCCGAAAGTCCGTGACATGGTTCCCCGTGGTGGCCCGTGGCAGCCCGTGG
CATGGCGTGGCTCAGCTGTCTGTTGAAGTTGTTGCAAGGAAAAGAGGAAACATCTCGGGC
CTAGTTCAAACCTTTGCCTCAAAGCCATCCCCCACCAGACTGCTTAGCGTCTGAGATCCG
CGTGAAAAGTCCTCTGCCCACGAGAGCAGGGAGTTGGGGCCACGCAGAAATGGCCTCAAG
GGGACTCTGCTCCACGTGGGGCCAGGCGTGTGACTGACGCTGTCCGACGAAGGCGGCCAC
GGACGGACGCCAGCACACCGAAGTCACGTGCCAAGTGCCTTTGATTCGTTCCTTCTTTCT
AAAGACGACAGTCTTTGTTGTTAGCACTGAATTATTGAAAATGTCAACCAGATTCTAGAA

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ACTGCGGTATTCCAGTTCTTCTGACACCGGATGGGTGCTTGGGAACCGTTTGAGCCTTAT
AGATCATTTACATTCAATTT

Sequence 1649

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AGACGCTGGTGCAGGGCCTCAGTGGCTTGACTCTCAGCCTAGGCACCAACCAGCCCGGGC
CTCTGCCTGAAGCGGCACTCCAGCCACAGGAGACAGAGGAGAAGCGCCAGCGAGAGAGGC
AGCAGGAGAGCAAAATAATGTTTCAGAGGCTGCTCAAGCAGTGGTTAGAGGAAAACTGAG
ACGTGCACCCCCATGGGATGGAGACCCGAAGGGACTCAGACGGAGCCGCCGTGTTGGCAG
CGCCTGGGTGTGGGCCCATTTTGGGGACCAAACAGCAAGCTGTGGTCGGATGAGTGCCAG
GACCTGTGTACCGGGACACGTGGGGAGTCCTCCCAGCATGATGCTTGACTGACCCGAGGA
AGGTCCTCATGTTTCGTGCCTGTCATTCTCGGATGGCTGTGAGGCATTCCTTGGCAAGGG
ATGCTTGCGTACCAAGCGGTCCTACCGCATCTACATGGCTTCTGTGATGCATGTTGTCGC
TTTCCCACCCNGGAT

Sequence 1650

CGCGTCCGAGCTTTGCAGGGAAGAACAGAGTATGGGTCATCTCAGCCCCTCATGCCTCGG
AAGGCTACTACCGCCTCATGATGAGCCTGCTGAAGGACGATGTGTACTGTGAGCTGGCGG
AGAGGCACATCCAACAGATTGTGCTCTTCCACCAGGCAGGTGAGGAAGGAGGCAAGGTGA
GAAGGATCACCAGCGAGGGCCAGATCCTGGAGCAGCCCCTGGACCCTAGCCTCATCCCTA
AGCTGATGAGCTTCCTGAAGCTGGAGAAGGGCAAGTTTGGCATGGTGCTGCTGAAGAAGA
CGCTGCAGGTGGAGGAGCGCTATCCATATCCCGTTAGGCTGGAAGCCATGTACCGAGGTC
ATNGACCAAGGCCCCATCCGTAGGATCGAGAAGATCAGGCAGAAGGGCTTTGTCCAGAAA
ATGTAAGGCCTCTTGGTGTAGAGGGCCANNGTTGGTTGNCTGAGGGGGAATTGACCCGTT
GGAAGGGGGAAGCAATGAAAGGGCCAAAG

Sequence 1651

CGCGTCCGGGATGCCTTGGGTCTGAAAGTCGATGAAGGACGCGATTACCTGCGATAAGCT
TCGTGGAGTTGGAAATAAACTATGATACGGAGATTTCCGAATGGGGTAACCTAACTGAGC
AAACCTCAGTTGCATTTTGATGAATCCATAGTCAAATTAGCGAGACACGTTGCGAATTGA
AACATCTTAGTAGCAACAGGAAAAGAAAATAAATAATGATTTCGTCAGTAGTGGCGAGCG
AAAGCGAAAGAGCCCAAACCTGTAAAAAGGGGTTGTAGGACATNTTACATTGAGTTACAA
AATTTTATGATAGTAGAAGAAGTTGGAAAGCTTCAACATAGAAGGTGATATTCCTGTATA
CCGAAATCATAAAATCTCATAGATGTATCCTGAGTAGGGCGGG

Sequence 1652

GTCGCCNCGCGTCCGCAACATTATTGAGATTGTCGTGTATAGTCATCGAATATCAGCCAG
TTCCTGTAATTTTGTGACACGCTCTCTGCCAAGCCCACCAAGTATTTCCTTTATAGCTAA
AAGTTCCATAGTACTAAGGAAATAAAGCAATAAAGACAGTCTCAGCAGCCAGGATTCTGG
CTGAAGGAAATGATCCGCCACCCTGAGGGTGGTGATGGTAGTTTCTACCCATACCTCAGC
CTCAGGCGAGTGGCTTATAGCCTCCATTCATGGTGCACTTTATTTATGGTACTAAGATAA
AGACTGTCAATCCATTGATTTATCTCCTCCTGTCCCCCATCTAAAATACCCATGCTGCTT
TTCTGGAGTGTTGTGGGGGGGTTACCAGCTTGATCCACTGGTGCTCTTTAAGAAGGCCCA
AGAAAGGTCTTTGGGGCATTGCCAAAGAAAATCCCGGATTTATGTGGGAAAACCCTCACT
TTTCTCTTTACNGGCTGGTACCAAGA

Sequence 1653

CCGTCCGTTTTTTTTTTGAACTTACCGTAAAATTTTTTTTTAAAAAGTGCTTGTAAAAAT
TAAAGAGGAATAAAAGGGGGGTGAACAGCCAGTACGATAGTGCATGCCTGAAATTCCAGT
GCTTTGGGAGGCCGAGGCAGGAGGATCGTTTGAGGCCAGTAGTTGGAGAGCAGTGTGGGC
AACGTAGCAAGACCCCATCTCTACAAAAAATTTAAAAGTTAGCCGGGCATGGTGATTCAC
ACCTGGAGTTCCAGCTGCTGTGGAGGCTGAGGTGGGAGGATCGCTTGAGCCCAGGAATTT
GAGGCTGCAGTGAGCCATGATTGCACCACCGCACTTCAGCCTAGGTGACAGAGCAAGGGT
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AGAAATGCTGAGGCTGAAAAGATTGTTCCCAGTTTNCTGGTAGCCAGGGGAAAAGGGGAA
ATT

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Sequence 1654
CGCGTCCGCTGACATTTCCTAGGAAGCTNGGAAAAGGAAAGTGAAGGAATGGTCTAAAGA
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CAGCCTTTGCAGGACTTGGATTCAGGGTTTTACTCAGTCCCTTTACCTTAGGTGGAATCT
TCTTAAATTGAAATTTTTGGTAAGGAATTCATTTCACAGGTAGTGTTTCAGACTCTGAAA
GCCCTGACTTGGTTCTTGGCTTCTACTGTACTAGTTACTAGTTACTGGTACTGTTGCCAA
GCAATCTGCTTGGAATTTGTGGATCCCTGCTGTTCCCTAATCCCACCCCCTGCCCTGAGA
CAGTGAATGTAGTCCGTGAAGGGAGTGCCTCTCTGGGACCCCCTGTGTTGTTACAGGCTG
TGCAGTGCAACAATTCCAGCAAAAATACCCTATCCCCGCACTTAGTCATTCGTGGTAACT
AACAATTTTGAAATACTCATATAAAATGAACAGGAAAGTGGTTAGTG
Sequence 1655
GACCACGCGTCCGGACCCAGACCCGGCTGACCCACCTACCCGCGATCCTGCCCATGGCTG
ACGGGCTCTTTCGGCGCAGACCCTGGGGTCTCGAGCAGATTCGCCCGGACCCCGAGTCCG
AAGGCCTGTTTGACAAGCCTCCCCCGGAAGACCCTCCCGCTGCCCGCGGGCCCAGGTCGG
CGTCGGCCGCGGGCAAGAAGGCTGGTCGGCGCGCGGGCGGGAGGGCGCAGGGGGGCCGCG
CCGGGCAGCCCCCGAAGGCCGCATCGCGCCCCCCGCCCAAGAAGGAGGCGCCTCCACTGG
ACGAGGGCTGCTATCTCGACCATTTTCCGCACCTCTCCATCTTCATCTACGCAGCCATCG
CCTTCTCCATCACCTCCTGCATCTTTACCTATATCCATTTACAGCTTGCCTGAGTGGCCA
GCGCGGGACGGGGTGGGCGCAGGACCGAGCGGGGAGGGAAAGGGGAAAACGGGGGCTNGG
CATTTTGTGTTTTAG
Sequence 1656
CNCTAACCCCGAACTCTAGATCGTCTTGCTTGTTTGTCTGAAGAAGGGAATGAAATAGAA
AGTGGAAAAATAATATTTTCAGAGCATCTTCCCTTAAGTAAGCTACAGCAAGGCATAAAA
TCTGGTACATACCTTCAAGGAACATTTAGAGCTAGCAGGGAAAATTACTTGGAAGCTACA
GTATGGATTCATGGCGACAGTGAAGAAAATAAAGAGATAATCTTACAGGGACTTAAACAT
TTAAACAGAGCTGTTCACGAAGATATTGTGGCTGTGGAGCTTCTCCCCAAGAGTCAGTGG
GTAGCACCATCTTCTGTGGTTTTACATGATGAAGGTCAAAATGAAGAAGATGTGGAGAAA
GAAGAAGAGACAGAACGAATGCTTAAGACTGCTGTAAGCGAGAAAATGTTGAAGCCTACA
GGTAGGAGTTGTAGGAATAATAAAAAGGAATTGGA
Sequence 1657
CGTCCGCGGACGCGTGGGCGGACGCGTGGGCTGGCTGTATCTATACTTTCCTTGAGAAAA
ATCCCATAAAGTGGATGGACCTGTGAAGAAAATGTATGCTTATGGCCTAGCCTTCATGTC
TGGCTGATGTATCCTATAAGGCAGTAAGCCCCTTTTCTAGTCTCTGGTAAGATGCAAGAG
CTCATATCCCCATCACTGACATTTTAGTTTGGAAATAATATTGAGACTGTGCTATGACCA
ACCCCTGATGTTGTTTTTTCTTTTCAAACTTTTGCATATGAGTAGAGGAAAAGCCTAAAA
GTTAAGTATTTATGTCTGGGGGGATACCTTCAGGTGTCTTATCTGTTTTATGCAAGAATT
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AAAAG
Sequence 1658
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GAATCTTTACCAAGATTTTCAGGGTGTACCTATGAAATTGCTTTAAATGCACTGCTGGTG
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GGATGGGGAACGAATGCCAAATCAGACTCCACCTAGAGCACCAGGAAACAGCTTGTCCCT
GGTAGGGAAATGGTGTTGCTGAAAG
Sequence 1659
CGACCNCGCGTCCGGCTGNTGACCCCATGCTGAGTGGCCNGTGGGGAGCGGCGCCCGGCA

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GGCTCTTCTGGGGTCGTCTGTCCTATCCGTGGATTGTATATACTCTTCTCTGTTAAGGAG
TTTTTCCCAAGAAGAAAAGTATTTAAAAGAAATACCAGTGAGTGCCTTAAAGTTGGAGAA
GTAACTGCCCATGCCCAGAAATAAGGATGCCAGTGCCCAGAAGCAGTGAGATTAGTCTGT
GTCCACAAGCAGAGGCCCCCTCGATGGGAGGGAGTGGCAGGCAGGAGAAGGTGGCGCTGC
CAGGTGCCCGGGTCTATTGGAGGCGCCCCATCTCAGACTTCCTAACACAGCCTGTGTGGA
AGGCAGAACAAAGAATGCATGCCCAGTCAGAAATCTGTTCTATTCTGCTCCAGGAAAATC
GGAAACCTGTGAGTCANAGTCAGAGAAACTTACCCAGCCACGTATTCCTGTTTCATGGGT
NCTGTAGATGTTTTGAGTCAAGGAAGGTA

Sequence 1660

TCGACCNCGCGTCCGGTGGGTCCCTGCCGGCCGGCGGCGGGCGCAGACAGCGGCGGGCGC
AGGACGTGCACTATGGCTCGGGGCTCGCTGCGCCGGTTGCTGCGGCTCCTCGTGCTGGGG
CTCTGGCTGGCGTTGCTGCGCTCCGTGGCCGGGGAGCAAGCGCCAGGCACCGCCCCCTGC
TCCCGCGGCAGCTCCTGGAGCGCGGACCTGGACAAGTGCATGGACTGCGCGTCTTGCAGG
GCGCGACCGCACAGCGACTTCTGCCTGGGCTGAGCTGCAGCACCTCCTGCCCCCTTCCGG
CTGCTTTGGCCCATCCTTGGGGGCGCTCTGAGCCTGACCTTCGTGCTGGGGCTGCTTTCT
GGCTTTTTGGTCTGGAGACGATGCCGCAGGAGAGAAGAAGTTCACCACCCCCATAGAGGA
GACCGGCGGANAGGGCTGC

Sequence 1661

GGTGTCGACCNCGCGTCCGGCGCCCCGCTCGCATTGTTCGGGCGACTCTCGGAGCGCGCA
CAGTCGGCTCGCAGCGCGGCACTACAGCGGCCCCGGCCCGGCCCCCGCCCGGCCCCGGCG
CAGGCAGTTCAGATTAAAGAAGCTAATTGATCAAGAAATCAAGTCTCAGGAGGAGAAGGA
GCAAGAAAAGGAGAAAAGGGTCACCACCCTGAAAGAGGAGCTGACCAAGCTGAAGTCTTT
TGCTTTGATGGTGGTGGATGAACAGCAAAGGCTGACGGCACAGCTCACCCTTCAAAGACA
GAAAATCCAAGAGCTGACCACAAATGCAAAGGAAACACATACCAAACTAGCCCTTGCTGA
AGCCAGAGTTCAGGAGGAAGAGCAGAAGGCAACCAGACTAGAGAAGGAACTGNNAACGCA
GACCACAAAAGTTTCACCAAGACCAAGACACAATTATGGCGAA

Sequence 1662

GACCACGCGTCCGGAAGGAAGGGACGGGCTGAGTTCCCCGACGAGAGACACACCCAGATT
TTCCTGCAGCTTGGGGAGAGGTCCTCCCAGGAGCCTTGGTCCCTCCTGGCCTGCCGGAGT
CCTTAGCCAGGATGGAGGCTGTTGTGAACTTGTACCAAGAGGTGATGAAGCACGCAGATC
CCCGGATCCAGGGCTACCCTCTGATGGGGTCCCCCTTGCTAATGACCTCCATTCTNCTGA
CCTACGTGTACTTCGTTCTCTCACTTGGGCCTCGNATCATGGCTAATCGGAAGCCCTT

Sequence 1663

GTCGACCACGCGTCCGGGCTCCATCCGGGCTATCCTGCCGCCTTAGCGGCTGCTTCTCCC
CAGGATGCGGGCAGGGGGCCTCTCTCCCACTCCCCACACACCGATTTCTGAGTAGCGATA
GGGGCTGGAGGCTTATTTTATGGGGTAGGGGGCCGCTGGTAGGCGAAGATTGTCCGAGGG
AGAGGGGGAGGATGAAGCCAGTGCGTGGCGGAGACTTGCCAGATGTTGATGCCTAAGAAG
AACCGGATTGCCATTTATGAACTCCTTTTTAAGGAGGGAGTCATGGTGGCCAAGAAGGAT
GTCCACATGCCTAAGCACCCGGAGCTGGCAGACAAGAATGTGCCCAACCTTCATGTCATG
AAGGCCATGCAGTCTCTCAAGTCCCGAGGCTACGTGAAGGAACAGTTTGCCTGGAGACAT
TTCTACTGGTACCTTACCAATGAGGGTATCCAGTATCTCCGTGATTACCTTCATCTG

Sequence 1664

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GGTTGCTTTTTAAAGCTTTTAGCCTGCCCTAGCAAGGACAAAGCATGTTAGATTAGAGAT
GCTTCTGCTGATCGCAGGGGTTCTTATTTGAAAACATCTATGATGGGGGTGGGGTGGGAG
GAGACAGGTTGTGGTTATGCAGGAAAATCTTGTCCTAAAAATATATGAGTTTGGGGGTAA
GGGGTGGGATAGCCAAGCAAAATCAGTAATTATTTTAAAATGAACATATGTATTTTTATT
AACTTTTAGTTAAATACAGATTTTACAACGAGGTCAGCATAAGCCTAAATCTATATAGAG
GGCTAACTCAGGCATTGTCTTGTTTATTTGTAGACTGGATTAAAAACAACCTGTCCTGTT
TTGTNAGTTCCCAGCTTCTTTCGTTTAGAATAAATTAGACCAAAAGAA

Sequence 1665

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GCGTNCGCTTAATGTCAATGTGGCCTGGGCTGGAGGTCTGGACCCCCCCATGGGGGATCC
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CTACCATGTTTCTGCCAAATGTTTTGGATACATGACGCAGCAACTGATGAACCTGGCAGG
AGGCGCAGTGGTGCTGGCCTTGGAGGGTGGCCATGACCTCACAGCCATCTGTGACGCCTC
TGAGGCCTGTGTGGCTGCTCTTCTGGGTAACAGGGTGGATCCCCTTTCAGAAGAAGGCTG
GAAACAGAAACCCAACCTCAATGCCATCCGCTCTCTGGAGGCCGTGATCCGGGTGCACAG
TAAGTGTGGAGATGGGACACTCGCTGAGCTCAGACTGAAGGATCTTGGT

Sequence 1666

CGACCNCGCGTCCGGTGTGATGATCGCTACTGCTGGAGACCGCACAGAGGAGTTCCACGG
CCACNGCAGTGAACCTCCTGGGGAACTTGCCCCTCAAGTGTCTGGATGTTCTCCTCACCC
TGGAGCCACATGGAGACTCCACGGAGTTCATGGGAGTGAATATGGATGTGATTCGTGCCC
TCCTCATCTTCCTAGAGAAGCGTTTGCACAAGACACACAGGCTGAAGGAGAGTGTAGCTC
CCGTGCTGAGCGTGCTGACTGAATGTGCCCGGATGCACCGCCCAGCCAGGAAGTTCCTGA
AGGCCCAGGTGCTGCCCCCTCTGCGGGATGTGAGGACACGGCCTGAGGTTGGGGGAGATG
CTGCGGAACAAGCTTGTCCGCCTCATGACACACCTGGACACAAGATGTGAAGAGGGTGGC
TGCCGAGTTCTTGTTTG

Sequence 1667

NCGCGTCCGACACTATTTAGAGAGCTCCCTTCCCACCTCTCTGCCCAGCCTTGTTACCTC
ACTTCTGCTCTGGCCATGGCTGTGAAGGGCCCAGCCAGCTCCCTGTTTTGATGTTCTGTG
CAACAGCTCCGGGGTCTTGTGACTGGAGATCCTCAACAGGCCCTGGAGCCAGGACTGGAG
TCTTGGCAGCTGATGAGCAGCACCTTGCCGGCCAGGAGGAGCTGATGCTGACGATCTCCC
CAACATCTGAAGGCTTAAAGAACATTGTCGTTCTTCAGCCCTCCTTGCTTCTCTCAATAC
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CATTTTTGCCAACAATAGCTTGTGGCTCCCACATTTTTCTACCCTTGCACTNAANGGCCA
GACCACTCTNTGCATGGACCAANACCATNTTTCCAAACCCATGGGGCTTTTTTTNCC

Sequence 1668

CANGAATACTGAAAAATGAAGCCTAAAATGAAGTATTCAACCAACAAAATTTCCACAGCA
AAGTGGAAGAACACAGCAAGCAAAGCCTTGTGTTTCAAGCTGGGAAAATCCCAACAGAAG
GCCAAAGAAGTTTGCCCCATGTACTTTATGAAGCTCCGCTCTGGCCTTATGATAAAAAAG
GAGGCCTGTTACTTTAGGAGAGAAACCACCAAAAGGCCTTCACTGAAAACAGGTAGAAAG
CACAAAAGACATCTGGTACTCGCTGCCTGTCAACAGCAGTCTACTGTGGAGTGCTTTGCC
TTTGGTATATCAAGGGGTCCAGAAATATACTAGAGCACTTCATGATTCAAGTATCACAGG
AATTTCACCTATTACAGAGTATCTTGCTTCTCTAAGCACATACAATGGATCAATCCATTA
CTTTTGCTTTGGAGGATGGAAAGTTATGAGATATATGTTGAAGACTTGAAAAAAG

Sequence 1669

GTCGACCNCGCGTCCGCCCGCCCATCACTGCTGTTCCTCCAGGGCCAGCACTCGGGCGAG
GCAGGGGAGCTGCCTTCGGTACATAATTTGAAGGGGCACTCCCTCTTGGGCACATGCCGG
CCCTGAGTGCCTCCCTTGCCTCACTCTGATCCTGGCCCCATAATGTCCTCAGTGGAAGGT
GATGGGGGCCGGTGCTGTGGGGAGAGTAGAAAGAGGGGTTGGCATGACTAAAAATACCAG
TATGTGTATTAAGTATTTTGAGAATGAAATGCCAAGGAGTGCCTACTATATGCCAGCTCT
AGGAATGGAGTAGACAGTGGACACAAGAAGGACTTACGCCCTGAGCACAGGTGCCAATGG
TGACAAGACTGGCAAGACGTGAGGGCATGAATGGTTCATTCAGGCAGCTGCTGCAGATGT
GGTCACCTGGTGCCATCTGCTGCTCCCTTTTCCACTTTTCTATGTCCTCCTTCCACCCCA
A

Sequence 1670

CGACCNCGCGTCCGGTCTGAAGGGTCTGGCTGGTGAGCCAGGTTTTAAAGGCAGCCGAGG
GGACCCTGGGCCCCCAGGACCACCTCCTGTCATCCTGCCAGGAATGAAAGACATTAAAGG
AGAGAAAGGAGATGAAGGGCCTATGGGGCTGAAAGGATACCTGGGCGCAAAAGGTATCCA
AGGAATGCCAGGCATCCCAGGGCTGTCAGGAATCCCTGGGCTGCCTGGGAGGCCCGGCCA

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CATCAAAGGAGTCAAGGGAGACATCGGAGTCCCCGGCATCCCCGGTTTGCCAGGATTCCC
TGGGGTGGCTGGCCCCCCTGGAATTACGGGATTCCCAGGATTCATAGGAAGCCGGGGTGA
CAAAGGTGCCCCAGGGAGAGCAGGCCTGTATGGCGAGATTGGCNCGACTGGTGATTTCGG
TGACATCGGGGACACTATAAATTTACCAGGAAGACCAGGCCTGAAGGGGGAGCGGNGCAC
CACTGGAATACCAGGTCTGAAGGGATTCTTTGGAGAGAAG

Sequence 1671

GAGTCGACCNCGCGTCCGCAACTGGTGTCCAGCTCGGTGCACTCCAAGCGCCGTTCCCGA
GCGGACCTCACGGCCGAGATGATCAGCGCCCCGCTGGGCGACTTCCGCCACACCATGCAC
GTTGGCCGGGCCGGAGACGCCTTTGGGGACACCTCCTTCCTCAATAGCAAGGCTGGCGAG
CCCGACGGCGAGTCCTTGGACGAACAGCCCTCTTCTTCATCTTCCAAACGCAGTCTCCTG
TCCAGGAAGTTCCGGGGCAGCAAGCGGTCACAGTCGGTGACCAGGGGGGAGCGGGAGCAG
CGTGACATGCTGGGCTCCCTGCGGGACTCGGCCCTGTTTGTCAAGAATGCCATGTCCCTG
CCCCAGCTCAATGAGAAGGAGGCCGCGGAGAAGGGCACCAGTAAGCTGCCCAAGAGCCTG
TCATCCAGCCCCGTGAAGAAGGCCAATGACGGGGGAGGGCGGCGATGAGGAGGCGGGCAC
GGAGGAAGGCAGTGCCCCGTCGGAAT

Sequence 1672

CGCGTCCGCTCGCGGCNGGGCATCGNGTACATCCTCAGCAACCATGGGCTACGTGCGCCA
GCTCTCCCAGGCCCTGGACACATCCAACGTGATGGTGAAGAAGCAGGTGTTTGAGCTACT
GGCTGCCCTGTGCATCTACTCTCCCGAGGGCCACGTGCTGACCCTGGACGCCCTGGACCA
CTACAAGACGGTGTGCAGCCAGCAGTACCGCTTCAGCATTGTCATGAACGAGCTCTCCGG
CAGCGACAACGTGCCCTACGTGGTCACCCTGCTTAGCGTGATCAACGCCGTCATCTTGGG
CCCCGAGGACCTGCGCGCGCGCACCCAGCTGCGGAACGAGTTTATCGGGCTGCAGCTGCT
GGACGTCCTGGCTCGCCTGCGGTGAGTCCCCACTGTAGCGGTCCTGCCGGNTTNCCCCTC
CTGCTCCCAAGGCCAGGCCCACCTGCCCTTTGGCTCCCAGCCACCTCACCTAAGCAGCAC
CTTCCAGATGGCAGGGGAGGTGGC

Sequence 1673

GTCGACCACGCGTCCGGCCAGAGCTGAGTGGCAGCCGCCTCCCTTATGCAGGACATGTGC
TCTCGGCTTCACCAGGGTTCTGACCGGGTCTGCTTCTGCATTCACAGCGCCTCCTGGACC
TGAAGGCATCTGAGTGTGAGACCCTGTTCTAACTCTTAGAAGTGACATTGTAAGAGGTGG
TGGGGACCAGCTAATTGGTCCAACCCAGCCTGAGTGCACCACCCTTTGAACAAATGTATC
AGTGATGAAAATTTGCCTTTGCCCCGGCTTGCCTGTAATCCCAGCACTTTGGGAGGCCGA
GGTGGGCGGATCACTTGAGGTCGGGAGTTCAGGACCAGCCTGGCCAGCGTGGCGAAACCC
CGTCTCTACTAAACATAAAAAAATTAGTCAGGTGTGGCGGTGCGTGCCTGTGGTCCCAGC
TATTCAGGAGGCTGAGGCACCAGAATTGCTTGA

Sequence 1674

TGACGGCGGCCCGGCCGACGGGAGCCGGGGCGGGGCGGCGGNCCANCGAAGGAGCGCGCG
GGCGGTCTGGCCCCGCCCCCTCCCCGCCCGCCTTCCCGGTGACCTTCAGGGGCCCGGGTG
GCGGGCGCAGGCCCCTGCGGCGGCGGCGGGATGTTCGTGCAGGAGGAGAAGATCTTCGCG
GGCAAGGTGCTGCGGCTGCACATTTGCGCGTNCGACGGCGCCTAGTGGCTGGAGGAGGCC
ACCCNGGACACCTACNGTGGANAAANCTCAAGGAGCGCTTGCCTCAAAGCACTGTGCTCA
TGGGGAGCTTANAAGATCCCCAAAAGTATAACCCATCATTAAATTTAATCCCACGCTGCC
TNAANANAAGGGGTGCTTGNGTGATTGCCATGNACCATNCTTGGGAAGGAAGAAACCATT
CCCAGGACCCAAAAGATGGGCCCTATTTNTTGGATTA

Sequence 1675

CACGCGTCCGGGATCCCGTACCCGGGACAGACTCGGCGCCGCTGGCTGGCCTGGCCTGGT
CGTCGGCCTCTGCACCCCCGCCGCGGGGGTTCAGCGCGATCTCCTGCACCGTCGAGGGGG
CACCCGCCAGCTTTGGCAAGAGCTTCGCGCAGAAATCTGGCTACTTCCTGTGCCTTAGTT
CTCTGGGCAGCCTAGAGAACCCGCAGGAGAACGTGGTGGCCGATATCCAGATCGTGGTGG
ACAAGAGCCCCCTGCCGCTGGGCTTCTCCCCCGTCTGCGACCCCATGGATTCCAAGGCCT
CTGTGTCCAAGAAGAAACGCATGTGTGTGAAGCTGTTGCCCCTGGGAGCCACGGACACGG
CTGTGTTTGATGTCCGGCTGAGTGGGAAGACCAAGACAGTGCCTGGATACCTTCGAATAG

TABLE 1

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GGGACATGGGCGGCTTTGCCATTCTGGTGCAAGAAGGCCA

Sequence 1676

TCCCTCTGCTGATGATGGATGCCCCTAACACCTGTGCCTAACACCCCTACTGAACCCCAC
AGCTCCAGCCTTAGTTTTTGGAGTCAAGTGTTAAAGGTTTCTGGCCAGAGGAATTGGGGT
CTTGCCATCCCTGCAATAGCCCTTTTATGGGCTCTGGGAGACAGCTTTAGGGAATAAATG
GGGATTTTCCCCTTTTTCTACCCACTCCTTTGCTTCCTCCAAGACTTACCCAACTCCTTC
CCCCTCAGAGAACCAAATAGCCTGAGGAAGCAGGAGAGTTCCTGGTTATGGCAGATTCTT
GGTGATTTGGGGCTTCAAGACAGTAGGTGAGAGATGCTGTCAGGGACGTATCTTCTTCAT
ACCAAAGTCACTGGTCCTTTCTCAGCCTCTCTCGTGCTTTTCTCCTAATGACCATATTTT
TGCCAAAAATTGGGAATATGTTATCTGACAGACCAGAATATTTGAAGGTTTGGGCTG

Sequence 1677

GCGCCGCGGATATNCGGATCAACCTATGGTNTCAATATTGTNAGTTATTCAGCATAAACA
GAATTATTTCCCAANACTTGATCTGAAATATTNNTAATGGTCNTACTNGAAACTTATATT
CTTNCTGGGAGNGANGTNTTTATCATTTTTCCATGGAGACAGGTTCTAACTCTGTTGCCC
AGGCTGCANTGCAGTGATGTGATCATAGCTCACTGCAGCCTGAAACTCCTGGGTGTCAAG
TGATCTCTGGCCTCAGCCTCCCAAGTAGTTGGAACTTCAGATACGTGCCACCACAACCAG
CTAATTTATTTTTTAGAGATGAGGTNTCGCTATGTNGCCCAGTCTGGCCNNCTAGCCNCA
AGTGATCTGGCCATCTNAGCCTTCAGTTGGAGATGTCTGATTTATGTTAATATAAGAAAG
CTGTTGATCGTTTATCATAAANGCATTT

Sequence 1678

GTCNCCNCGCGTCCGCTCCTCCGCCGGCATGCAACTCGGCGCCCGCGGTCCATGGACCGG
AACCTCGGGCCGACGGACGGGAACCCGGGCCGCGATCGCCGCCTCCCCGCCTCAGGCTCC
TCCTCCTCGCTCTCCGCCGCCTCCGCCGGACTCCCGCAGGCCCTGCACCGCCGCCGCCAG
GCTAGCGGAGCTGCCCCGGGAAGCTGGGTGACGGGTTCGCGGCTGCCGCCGGACTGCGGC
CTACTCCGCCGCCTCTCAGTGCTATTGTCCCTGGGCCTGGCCTTGAGCGGGTCCACTGGG
GAAGGCNCGTGTGCGCCGGCTCCGCGGAAGATGCCGGACCAAGCCCTACAGCAGATGCTG
GACAAGAAGTTGCTGGGTTTGTTTTGCTACTGATGAAGATGATAGAACAGCTGAATGGGT
GAGGACCATGGCAGGTGCAGGAGGATCTACAAAATGGGTTCACCAGGGCCTGTCTACAAC
GCTGGGTGGATGAAAAGCAAAGAG

Sequence 1679

GCGTCCGGGCCCGCGACCGAGCGTGCGGACTGGCCTCCCAAGCGTGGGGCGACAAGCTGC
CGGAGCTGCAATGGGCCGCGGCTGGGGATTCTTGTTTGGCCTCCTGGGCGCCGTGTGGCT
GCTCAGCTCGGGCCACGGAGAGGAGCAGCCCCCGGAGACAGCGGCACAGAGGTGCTTCTG
CCAGGTTAGTGGTTACTTGGATGATTGTACCTGTGATGTTGAAACCATTGATAGATTTAA
TAACTACAGGCTTTTCCCAAGACTACAAAAACTTCTTGAAAGTGACTACTTTAGGTATTA
CAAGGTAAACCTGAAGAGGCCCGTGTCCTTTCTGGAATGACATCAGCCAGTGTGGAAGAA
GGGGACTGTGCTGTCAAACCATGTCAATCTGATGAAGTTCCTGATGGAATTAAATCTGCG
AGCTACAAGTATTCTGAAGAAGCCAATAATCTCATTGAAGGAATGTGAACAAGCTGAACG
ACTTGGAAGCAGTGGAT

Sequence 1680

GTCCGGCGTGGGGAAGGGTGGGGTGAGGGGGCGTGGCCGCAGCTAGGGCGGCGAAACTCT
CCTCCCCTCGGCCCCACCGCGTGGGACGGCGTGAACGTGGTGTCGGAGGGATGTCAGCCT
TCTCTGAGGCGGCGCTGGAGAAGAAGCTGTCGGAGTTGAGCAACTCGCAGCAGAGCGTGC
AGACCTTGTCCCTGTGGCTCATTCACCACCGTAAACACTCGCGGCCCATCGTCACCGTGT
GGGAGCGGGAGCTGCGGAAAGAGTGGAGGTGCAACAAATGAGAAATTCCAATTGGAGATT
TTGTCAAACAGGAATTTACTCCAAACCAAACAGGAAGCTTACTTTTCTCTACCTAGCCAA
TGATGTCATACAGAACAGCAAGAGGAAGGGGCCAGAGTTTACAAAAGATTTTGCACCAGT
TATA

Sequence 1681

CCGGCAAAGCAGGGACTCCTGATTTATATGTCCCTCCTCCTGGCAATCCTCTCACCCCAC
CTCCCCTGAGAACCTCAGTTCTTCCTAAATTGCTAAAGCTGAGGGGAAAGGGATGCTTTG

TABLE 1
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CGGCAAAGGCGCTGCTGCCTCAAGCTTGCTTTACATGCCTCTCTAGTTCCTCTCGCACTA
CAGAGTGGTAGCGAACAAAAGCGTTCGCCCTAGAAGCGACCTGAATGGAAAAATCTGCAC
ACGAACTAATGGGTTTGTCACGGAAAGTAGGGAACCGGGTCTGCAGCATTCCCTGGAGAC
AGACTTTCTGGTTGGTTTTCAAGGGTCCAAGGCAGCCATCAGCCCGGCTGTGCCCTCCCA
CCCTGCCTCCCACCCAGTTGATTCTCTCTTTGTGTAAGTTTAGCCCCTCTGAGGGTGGTG
GAGTGAGAGCATCCCATCAGATATATATACGATTCATCAGTCGGCACTTAAAAAG

Sequence 1682

TCACCNCGCGTCCGAAAAACGCAGATGATATACCTGCAACATCNGTCATGGCTGCGCCCT
GTGCTCAGAAGCAACCCGGGTGGAATATTGCTGGTGCAACAGTGGCAGGGCACAGTGCCA
CTCAGTGCCTGTCAAAAGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCAGCA
GGCCCTGTACTTCTCAGATTTCGTGTGCCAGTGCCCCGAAGGATTTGCTGGGAAGTGCTG
TGAAATAGATACCAGGGCCACGTGCTACGAGGACCAGGGCATCAGCTACAGGGGCACGTG
GAGCACAGCGGAGAGTGGCGCNCGAGTGCACCAACTGGAACAGCAGCCGCGTTGGCCCAG
AAGCCCTACAGCGGGCGGAGGCCAGACGCCATCAGGCTGGGCCTGGGGAACCACAACTAC
TGCAGAAACCCAAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTAAGGCGGGG

Sequence 1683

CCGTCCGCTCCTTGGCAAGAACGAAAGGTGTGATGAAACCTCCCTGCTCGGAAGGGTCTC
CGTGGAGGTGTCCTCATTTCACATGCTGGGTTTTGCAAGCGAGGAAGCCAGGCAGTGGAG
GAACTAGAGAGAGGCAGGCGTGTGTGTGGACAAGCGCTGGAGCCGCAGCCCTCAGACTGG
CACGGGAACGCCAGCGTTGGGTGTTCAGATTCCACGCGTATGTCTGGGCTCACTCACAGC
ATGGCCGAGTGTCTGCAGTGCTGGTCCTGACCCTTCCAGAGCAGCAGTGGACAGATGAGA
TAAGACTGTTTCAGAAACAAAGATGGCCACAGCCTTCCTAACAAGCAGGTCATCTGGCCA
TGTCTGTATTGTAACTGGTAAAAGGCTTCAAGTCAGATTGATGATCAAGAAAANGTCAAA
ACCCCAGCCCAAGATTGGGAAAGCAGGTTNGTGGNTCCAANGCTTTTTAAAAAAATTATT
TGAAGCTCTTCATTCCTNTTTCTGTGAGTGTGTCTTTCTCTT

Sequence 1684

NCCCATACTGGGGGCCCCCTTCCTGCAGGCCCCATCAGGTGCAGAGCTGTGGGTCTGGTT
CCAAGACACTGTCACTGATGTGGATAAATCTTGGAAGGAGCTCAGTAATGTCCTCTCAGG
GATCTTCTGCGCCTCTCTCAACTTCATCGACTCCACCAACACAGTCACTCCCACTGCCTC
CTTCAAACCCCTGGGTCTGGCCAATGACACTGACCACTACTTTCTGCGCTATGCTGTGCT
GCCGCGGGAGGTGGTCTGCACCGAAAACCTCACCCCCTGGAAGAAGCTCTTGCCCTGTAG
TTCCAAGGCAGGCCTCTCTGTGCTGCTGAAGGCAGATCGCTTGTTCCACACCAGCTACCA
CTCCCAGGCAGTGCATATCCGCCCTGTTTGCAGAAATGCACCGCTGTACTAGCATCTCCT
GGGAGCTGAGGCAGACCTGGCAAGTTGTATTTGATGCCTTCATCACGGGGCAGGGAAAGA
A

Sequence 1685

CCGCTGGTTATTACCCAGCTGGATGGTTTCCTTTTAGGCAAGAAGGAGGTCATCAGCAGG
CTCCCAACAATAATGCCGAAGTTAACAATGATGGGCAAAATGCAAACAACTTGGAACTTG
AAGAAATGGAGCGTCTTATGGATGATGGGCTTGAAGATGAGAGTGGAGAAGATGGAGGTG
AAGATGCCAGTGCAATTCAAAGGCCTGGATTAATGGCTTCAGCTTGGTCTTTCATCACCA
CCTTCTTTACTTCACTAATACCAGAGGGGCCTCCCCAGGTTGCCAATTGACCTGAAAAAC
TGTGCCAGCTACAAGGAGGGTCTGACTTCAGGAAAGTGGTTTAAATAACAGTGCAATTTC
AAAAAAATTTATAACTTTCTTTTGATCATCATGTACAGAGGTGTTTTTTTTCTTTAGGCT
TCTCATGCATATGAATATTTTAAGCACGAATGGACTACTAAATATCTGAGTTTTTTTTTT
TTTTTTTTTAAAGAATC

Sequence 1686

CGCGCCGGTTTGGCTGCCCTGCATAAGCTGCTACAAATAGAATAAAGAATTTCATACGCC
TGTATCTATCATTTAGATGCATGGAAAAAAATGGGCTTTGCACACAATGGGTTTGGAGCT
GACTGGGAACAATGGAAAAAATTACATTAGCTGTGGTTGTAAAGTTTTTTTGTTTTTGGT
TTTGTTTTTTTTTTCTTTTTTCTTTTTTTTTTTTTTACCATCTTGTGAAAGGTTTCTGAA
ACTCGATAATAAAAAGCGGTTGGTGTAAATTATTCTTTTGTGTCACATTTTTAGAAGGAA

TABLE 1
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AAACATAAAAGAATGTATCCTTAGTACTGGTTCTTAAACAGCCCATAAAAACCCATTGGC
CTGAAGCTTATATCTCAGGCCTATGCCCATCTTATAGTCTTGGAAGACAAAA
Sequence 1687
CGCGTCCGTGGGTCTCGCCCTCAACCTGTGCATGTATATGTGTGTCTTTGTGTGTGTATG
TGTGATCTCTGCCTGCAGGACCAGCCCGGTGGCACCCTGGATCTGACCCTGATCCGTGCC
CGCCTCCAGGAGAAGTTGTCACCTCCCTACAGCTCCCCACAGGAGTTTGCCCAGGATGTG
GGCCGCATGTTCAAGCAATTCAACAAGTTAACTGAGGACAAGGCAGACGTGCAGTCCATC
ATCGGCCTGCAGCGCTTCTTCGAGACGCGCATGAACGAGGCCTTCGGTGACACCAAGTTC
TCTGCTGTGCTGGTGGAGCCCCCGCCGATGAAGCCTGCCTGGTGCTTGGCCTGAAGTTTC
CCAAGGAAGCTGTCTGGTGGGCCCCTTGGGTGATGGGCCCCTTGGAGGGCTTGGAAGCCC
CCCCATGGGCCAAGCCCCAGCCCTGGGCTTCTGGTTCNTCTTGTCCCTGGTCACCCCCAT
CCCCACTCCCCCTTGGGTGGGCCTTGAACTTNCCACTTCCCTTGGGTGGGGCCC
Sequence 1688
AGGAGGNTTGAAGGAGTTGNNGGAGGAGGAGGATGGAGGCGAGGGCGAGCGAGCCCAGCG
GGGTCCNGGNCGCCCCGCGGGCCAAAGTCGAGCCCTNCCGCCNNTGGGCGAGCGCGCCAG
CCGCCCNTTTCANAACAGTTCGNCGCCACAAAANAAAAGAACGGGGGGGTGCCGAGGTTN
CCCATTGANCTCTTAAAGTGGTGCAGGTCCCTGTTGAGTGCGCTGCACCGGGCCGTGACC
CGCGCCCCTGTGCGTCCC
Sequence 1689
GGAGTCGACCACGCGTCCGCGCCGGCCGCCGGTGTCCGGACCGCTCGCCCCCGTTTGGAC
CCGACTTCGGTTCTTCTGGGGTGTTGATGCTCCTAAAGCCCGAGAGCACGTGTCCAGACC
CTAGCCTGTACGACGCTGACTCTGCCCGGTCCCAGAACCAAAGCCATGCCGGGGTGTGGC
CTCTGACCCCACGCGGAGGGGACCTCGCCTTGCGGGACCCCACCTGGAACCCGACCTNCC
AGNCTCGCAGCCGGCCTGAGCCGCCATGCGCGGGAAGTTGCTGCCGCTGGCCGGCCTATA
CCTGGTGCAGGGCCTGCCCTACGGGCTCCAGTCCGGCCTCCTGCCAAATGCTGCTTGCGT
GCCGGCGGCCTCTCGCTGACGCGCGTGGGGCTGGCCAAGGTTCTGTACGCTNCGTGGCTT
GCTTCAAGCTGGCT
Sequence 1690
CNCCCCGCGTCCGCGGACGCGTGGGTGCTTGCTGCTGAACCTGAGCTGCAAGTTGGAATT
GATATAATGAAGACTAGTTTTCCAGGTCGTGGTTCAATTCCAGAATTCTTTCATATTATG
AAAAGAAAGTTTACCAACAAAGAATGGGAAACAATCAGAAGCTTTAAGGATGAGTGGACT
CAGCTGGATATGTTTTATAGGAATTGGGCACTTAAGGAAAGCTTCATAAAAGCCATTGGT
GTTGGACTAGGATTTGAATTGCAGCGGCTTGAATTTGATCTATCTCCATTAAACTTGGAT
ATAGGCCAAGTTTATAAAGAAACACGTTTATTCCTGGATGGAGAGGAAGAAAAAGAATGG
GCATTTGAGGAAAGCAAAATAGATGAGCACCATTTTGTTGCAGTTGCTCTTAGGAAACCC
GATGGGATCTAGACATCAGGGGATGTTCCATCTCAGGATGATTCCAAACCAACCCAGAGG
GCAATTTACTATTCTCAACTTTAATGATTTAA
Sequence 1691
GACCACGCGTCCGCCCGTCCAGGAGCCCTAGGAGTGCTACGGGGGGCCGGAGCCTTGCCC
GGGCCGCTGCCCCGTCCCTGGATTCGGGGCTGGACGCAGCAAGCGGGGCGCTGTGTCCCC
AAGCTCCCCGTCCTCGGCCAGGCGGGCACCACGGCAGGGGCTGAGCTACCCTCATGGAAG
GGAGAGGACCGTACCGGATCTACGACCCTGGGGGCAGCGTGCCCTCAGGAGAGGCATCCG
CAGCTTTTGAGCGCCTAGTGAAGGAGAATTCCCGGCTGAAGGAAAAAATGCAAGGGATAA
AGATGTTAGGGGAGCTTTTGGAAGAGTCCCAGATGGAAGCGACCAGGCTCCGGCAGAAGG
CAGAGGAGCTAGTGAAGGACAACGAGCTGCTCCCACCACCTTCTCCCTCCTTGGGCTCCT
TCGACCCCCTGGCTGAGCTCACAGGAAAGGACTCAAATGTCACAGCATCTTCCACAGCCC
C
Sequence 1692
ACAGAATTTAGGGGTGGGTGAAAGCACTTGNGCTTTAGCTNTTTCATATTAAATATATAT
CTATATTTAAACATTCATGGCATAGATGATGATTTACAGACAATTTAAAAGTTCAAGTCT
GTACTGTTACAGTTTGAGAATTTGTAGTATTACATCATTACATAAGTCATTTTAGTAACA

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GCCTTTGTGAAATGAACTTGTTTACTATTGGAGATAACCACACTTAATNAAGAAGAGACA
GTGAAAGTACCATCATAATTAACCTAAATTTTTTGTTATAGCAGAGTTTTCTTGTTTAAA
AAAAAATAAAATCATCTNGAAAAGCATTTTGTACAGTTAAAATGTATAATGAAGCTTTTG
CCAACCAGACTGGTGCTTAGCAACCAAATTTTTTTTTTAAATAAAGCTTTTATGGCAGGT
GGGTAAATAAGGTGGCCTTCCAAATATATTGGTGTCTTGATGGAGAGTTNTTTAGTTGAA
ATGAATGTGGGTCTTTTCT

Sequence 1693

CGGTTAACATGGCCGTCACCGACAGCCTCAGCCGGGCTGCGACTGTCTTGGCAACTGTNT
TGCTCTTGTCCTTCGGCAGCGTGGCCGCTAGTCATATCGAGGATCAAGCANAACAATTCT
TTATGAAGTGGCCNATCAAACAANCTGGGCCTGTTCTTGGTGTGTACATCCCCGATTCTG
GTATTAATTATCGACATGTTGCAAATACCCTTTCTGTTTATAGAAGTGTCAAGAGGCTAG
GTATTCCTGACAGTCACATNTGCCCCTAATGCTTGCAGATGATATGGCCTGTAATCCCTA
GAAATCCCAAACCAGCTACAGTGTTTTAGTTCACAANCAATNTGGAACTAAATGGTGTAT
GGGAGAATGATGTGGGAAGGTGNNATTATAGAAGTTTNTTGAGGTAAACNGGTGGGAGAA
NNNTTTTTTTACCNGGGTAATTTAANCTGNGGGAGGGANTCCCCACCCTAAGTANCTTCC
TTCGGG

Sequence 1694

GTCCGCAAGATGGACGCAGCTCTCTGACCTACGACACTCTCCGGTTTGCTGAGTTTGAAG
ATTTTCCTGAGACCTCAGAGCCCGTTTGGATACTGGGTAGAAAATACAGCATTTTCACAG
AAAAGGACGAGATCTTGTCTGATGTGGCATCTANACTTTTGNTTTACATACAGGAAAAAC
TTTCCAGCCATTGGGGGGACAGGCCCCACCTCGGACACAGGCTGGGGCTGCATGCTGCGG
TGTGGACAGATGATCTTTGCCCAAGCCCTGGTGTGCCGGCACCTAGGCCGAGATTGGAGG
TGGACACAAAGGAAGAGGCAGCCAGACAGCTACTTCAGCGTCCTCAACGCATTCATCGAC
AGGAAGGACAGTTACTACTCCATTCACCAGATAGCGCAAATGGGAGTTGGCGAAGGCAAG
TCCATAGGGCCAGGTGGTACGG

Sequence 1695

CCCCGCGTCCGCTCGNAGCTGTCCGCGGTCTGTTTGGCCCGAACGGCGGCGGAGGCGCTG
ATCATGGCGACATTCATCTCGGTGCAGCTGAAAAAGACCTCAGAGGTGGACCTGGCCAAG
CCGCTGGTGAAGTTCATCCAGCAGACTTACCCAAGCGGCGGGGGAAGAGCAGGCCCAGTA
CTGCCGCGCGGCGGAGGAGCTCAGCAAGCTGCGCCGCGCCGCAGTCGGTCGTCCGCTGGA
CAAGCACGAGGGCGCGCTCGAGACGCTCCTGAGATATTATGATCAGATTTGTTCTATTGA
ACCCAAATTCCCATTTTCTGAAAATCAGATCTGCTTGACATTTACCTGGAAGGATGCTTT
CGATAAAGGTTCACTTTTTGGAGGCTCTGTAAAACTGGCTCTTGCAAGCTTAGGATATGA
AAAGAGCTGTGTTGTTGTTCAATTGTGCAGCCTTAGCTAGCCAAATTGCAGCAGAACAAG
AACCTGGATAATGATGAAGGGATTGAAAATCGCT

Sequence 1696

TTCGGGAGTCGACCCCGCGTCCGGGCCAGCCGGCTCGCCCGGGGGCCATGGCAGCAGCGG
CTACTGCAGCCGAGGGGGTCCCCAGTCGGGGGCCTCCCGGGGAAGTCATTCATCTGAATG
TGGGAGGCAAGAGATTCAGTACCTCTCGCCAGACTCTCACCTGGATCCCAGACTCCTTCT
TCTCCAGTCTTCTGAGCGGACGCATCTCGACGCTGAAAGATGAGACCGGAGCAATCTTCA
TCGACAGGGACCCTACAGTCTTCGCCCCCATCCTCAACTTCCTGCGCACCAAAGAGTTGG
ATCCCAGGGGTGTCCACGGTTCCAGCCTCCTCCATGAAGCCCAGTTCTATGGGCTCACTC
CTCTGGTTCGTCGCCTGCAGCTTCGAGAGGAGTTGGATTCGATCTTCTTGTGGAAACGTC
CTCTTCAATGGTTACCTGCCGCCACCAGTGTTCCCAGTGAAGCGGCGGAACCGGCACAGC
CTAGTGGGGCCTCA

Sequence 1697

CGTCCGAAGGAAGGAAGGGACGGGCTGAGTTCCCCGACGAGAGACACACCCAGATTTTCC
TGCAGCTTGGGGAGAGGTCCTCCCAGGAGCCTTGGTCCCTCCTGGCCTGCCGGAGTCCTT
AGCCAGGATGGAGGCTGTTGTGAACTTGTACCAAGAGGTGATGAAGCACGCAGATCCCCG
GATCCAGGGCTACCCTCTGATGGGGTCCCCCTTGCTAATGACCTCCATTCTCCTGACCTA
CGTGTACTTCGTTCTCTCACTTGGGCCTCGCATCATGGCTAATCGGAAGCCCTTCCAGCT

TABLE 1

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CCGTGGCTTCATGATTGTCTACAACTTCTCACTGGTGGCACTCTCCCTCTACATTGTCTA
TGAGTTCCTGATGTCGGGCTGGCTGAGCACCTATACCTGGCGCTGTGACCCTGTGGACTA
TTCCAACAGCCCTGAGGCACTTAGGATGGTTCGGGTGGCCTGGCTCTTCCTCTTCTCCAA
GTTC

Sequence 1698

CGCGTCCGGCCGCGCCCATGGCCCGCCGCTGCCCGGCCGCGCGGGCGGGCCCGCCACGCC
GCTGTCGCCCACGCGCCTGTCGCGGCTGCAGGAGAAGGAGGAGCTGCGCGAGCTCAACGA
CCGCCTGGCGCACTACATCGACCGCGTCCGCGCGCTGGAGCTGGAGAACGACCGGCTCCT
GCTCAAGATCTCAGAGAAGGAGGAGGTGACCACGCGCGAGGTGAGTGGCATCAAGGCGCT
GTACGAGTCGGAGCTGGCCGATGCCCGGAGAGTCCTGGATGAGACGGCTCGAGAGCGTGC
CCGGCTGCAGATAGAGATTGGGAAGCTGAGGGCAGAGTTGGACGAGGTCAACAAGAGCGC
CAAGAAGAGGGAGGGCGAGCTTACGGTGGCCCAGGGCCGTGTGAAGGACCTGGAGTCCCT
GTTCCACCGGAGCCGAGGTGGAGCTGGCAGCTGCCCTCAGCGACAAGCGCGGCCTGGAGA

Sequence 1699

ACGCGTCCGGAAGAATCTACACTTCTTTGCACCAGAGTATGGAGAAGTCACTAATGTGAC
AACAGCAGTGGACATCTACTCCTTTGGCATGTGTGCACTGGAGATGGCAGTGCTGGAGAT
TCAGGGCAATGGAGAGTCCTCATATGTGCCACAGGAAGCCATCAGCAGTGCCATCCAGCT
TCTAGAAGACCCATTACAGAGGGAGTTCATTCAAAAGTGCCTGCAGTCTGAGCCTGCTCG
CAGACCAACAGCCAGAGAACTTCTGTTCCACCCAGCATTGTTTGAAGTGCCCTCGCTCAA
ACTCCTTGCGGCCCACTGCATTGTGGGACACCAACACATGATCCCAGAGAACGCTCTAGA
GGAGATCACCAAAAACATGGATACTAGTGCCGTACTGGCTGAAATCCCCCAGGCCCTGAT
CTGCGCTGTGGCTGTCCCTGGGACGTGCTGCAGCCCTCCTGTCCCTTCCCCCCAGTC

Sequence 1700

GGGAGTCGCCCCGCGTCCGGATTTCAGTTGGTGGCGTCATAGTCTCATTACAGTGTCTAT
CTTGGCATTTACCAATTTACTTGTCATCTTTGTCCCAACTATTAGGGATATCTTTGGTTT
TATTGGTGCATCTGCAGCTTCTATGTTGATTTTTATTCTTCCTTCTGCCTTCTATATCAA
GTTGGTGAAGAAAGAACCTATGAAATCTGTACAAAAGATTGGGGCTTTGTTCTTCCTGTT
AAGTGGTGTACTGGTGATGACCGGAAGCATGGCCTTGATTGTTTTGGATTGGGTACACAA
TGCACCTGGAGGTGGCCATTAATTGGCACCACTCAAACTCAAACTCAGTCCATCTGATGC
CAGTGTTGAGTAAACTCAACTACTATGAAATTTCACCTAATGTTTTCAGTTTCACTTCCT
TTTGAAGTGCAGATTCCTCGCTGGTTCTTCTGAGTGCAGAATAAGTGAACTTTTTTGTTT
TGGTTTGNTTTTTTAAGAAAC

Sequence 1701

CCCACCGTCCGCGCGCGGCGCCTCGCCTCGGCCGGCGCCTAGCAGCCGACTTAGAACTGG
TGCGGACCAGGGGAATCCGACTGATAAATTAAAACAAAGCATCGCGAAGGCCCGCGGCGG
GTGNTGACGCGANTGCGATNTNCTGCCCANNGCNTCTTGAATGTCAAAGTTGAANAAANC
CAATGAAGCGCGGGTAAACGGCGGGAAGTAACTAATGACTTCTCATTAAGGGTAGCCAAA
NGCCCTTCGTCATCTNAATTAAGTTGGACCGCGCANTGAAATNGGATGAAACCNAGANTT
CCCACNTGTCCCTACCTACNTAATCCAAGGCGGAAAACCACAAGCCAAAGGG

Sequence 1702

CGACCACGCGTCCGGACAGATTGATAGCTCTTTCTCGATTCCGTGGGTGGTGGTGCATGG
CCGTTCTTAGTTGGTGGAGCGATTTGTCTGGTTAATTCCGATAACGAACGAGACTCTGGC
ATGCTAACTAGTTACGCGACCCCGAGGTGCCTGACCAGTTCTACCGCCTGTGGCTATCCC
TCTTCCTGCACGCCGGGATCTTGCACTGCCTGGTGTCCATCTGCTTCCAGATGACTGTCC
TGCGGGACCTGGAGAAGCTGGCAGGCTGGCACCGCATAGCCATCATCTACCTGCTGAGTG
GTGTCACCGGCAACCTGGCCAGTGCCATCTTCCTGCCATACCGAGCAGAGGTGGGTCCTG
CTGGCTCCCAGTTCGGCATCCTGGCCTGCCTCTTCGTGGAGCTCTTCCAGAGCTGGCAGA
TCCTGGCGCGGCCCTTGGCGTGCCTTCTTCAAGCTGCTGGCTTGTGGTGCTCTTCCTCTT
CACCTTTGGGCTGCTGCCGTGGATTGACAACTTTGC

Sequence 1703

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GATCGACTTCGCCTGACGGAATCCAGGGGTCGTAATATATGTAAACTCGCGTCCGNGCTG
CGTGCCCAGAGTAGTGGCCGAATACCTTAACGGGGCTGTGCGCGAGGAGAGCATCCACTG
CAAGTCGGTCGAGGAGATCTTCGACGCTGGTGCAGAANCTGGCCGACCAGTCGGGCTTGG
ACGTGATCCGCATTCGCAAGCCCTTCCACACANGACAACCACTAGCATTCAGGGCCAGTA
GGCACCCCTTCACCAACAAGCTTGACCACGTGTCCCGCGGAACTANCGCACCCCCGAGNA
GGGTTCAANGNATTCCTTGCACCCAGCCCAGATGCCCTGGCTTNTGGGGGGNCAAGTGAC
CCTTTGTGNAACCCACTCATTTTTTATGGCAAGGTGAGCATTNCCTAAAAACCCTTGAAA
AATGANGGGAANAACTTTCAAGGGGTTTTTTACAGGGCCCTTGGTTTTTTTTAAAATCCC
CAANATTTGGATAATAAATGGAATCCTCAAAAACACAAGTGGAGGAAGGNTCTTGAAAGG
GC

Sequence 1704

TCGACCACGCGTCCGGCCGGAGAAACTTGAGCCGGCTGCCCCGCCCACGGTGCCCGAAGC
CCCAAAGGCTGGAATTAGGGGCTAGAAGTCTGGCACCCACCGCCTGGCCAGGTGTTCGGG
ACGCGACCAGGTGGGCGGTCGCCCCGCCCCGGGAGCGCGGCTTAATAGCTGAGAGCCCGG
GGGCCAGGCCGNGGCTGCGGCCCAGGCAACGCCCTGAGGGTGGCCACGCTGNCAGGTGTT
CCACTCCCCCGGGACTATGGGCAAGGGCCCGGGGCGGGGAGGGCGGCAGGTGCTGACACT
GGAGCTGCGCCGGAGGTCGGGGAACTCGGCCTCCTAAGACTGAGGACACTCGCCTGCTGG
GCCGGNCGAGCTGTGCGGTGCCCTCCGGGACGCAGGGGGCGCTGCAGCCACGCTGGGTCA
GGCTCCGAAGGGCCCTCCCAACCCGGGGA

Sequence 1705

CGCCACGCGTCCGGAAAGATGGAGGTGTGGGGACAGGAGCTGGGTGTGCTGGGGACTGGC
CGCGGACCCCTAACCTGTGTCTCCGGTCTCCCTCCGGGAGCGGCTCAACCCAGCCCATCG
CTCTGGCCCCGTTCTGGCCCTGCAGGGTGGTGGTTGGGACGTTGAAATGAGCGCGCGAGT
GGTACGTCCTCTCTCCGCGCTCACGCCCCCCTCCTCACCGTGTTTCCCGCCAGGACCATC
AGCACGTGCCCATCGACATCCAGACCAGCAAGCTGCTCGATTGGCTGGTGGACAGAAGGC
ACTGCAGCCTGAAATGGCAGAGTCTGGTGCTGACGATCCGCGAGAAGATCAATGCTGCCA
TCCAGGACATGCCAGAGAGCGAAGAGATCGCCCAGCTGCTGTCTGGGTCCTACATTCACT
ACTTTCACTGCCTAAGAATCCTGGACCTTCTCAAAGGCACAGAGGCCTTCCACGAAGAAT
ATTTTTGGC

Sequence 1706

TCGCCNCGCGTCCGCTGAAGCAAGAGAATCACTTGAACCCAGGAGGTGGAGGTTGCGTGA
GCTAAGATCGCGCCACTGCACTCCAGCCTGGGCGACAAGAGTGAAACTCCGTCTTAAAAA
AGCCCATGGCAGGCTGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCA
AGGTGGGCGGATCACAAGGTCAGGAGATCGAGACCATCCTGGCGAACACGGTGAAACCCC
GTCTCTACTAAAAAAAATACAAAAAAATTAGCCAGGCGTGGTCGTGGGCACCTGTAGTCC
CAGCTACTCAGGGGGCTGAGGCAGGAGAATGGCGTGAATCCGGGAGGCGGAGCTTGCAGG
GAGCCGAGATAGTGTCACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCCGTCTCAAAA
AACAAAAAGCCCGTGGCAATTAATGGTAAAGGAAACCCGGCTTTTAGTGTAAAGAGGTAA
CATAA

Sequence 1707

GCGTCCGGCCTCCAGCAAAGCCCATTCAGTCAGCTCTGCAGGCTCATCTTACAAGAATAA
TCCCTTTGCCAGCTCAATCTCCAAACATGGGGTTTCTTCTGGCAGCTCTTCCTCGGGAGG
AACACCAGTCCAGAGTTCTGTTTCTGGGAGCCTGGTCCCTGGCATACAGCCTCCCTCCGT
GGGACAGGCCACCAGCCGACCCGTCCCAAGTTCAGCAGGGAAAAAAATGCCTGTTTCCCA
GAAGTTGACTCTGGTAGCCCCTCCAGGCGGTCCAAACGGAGATTCCAGTGGTGGGACCCA
GGGGAGTGGCAAAGTTGCTGACCTCGCCGTCCCTAAAGCCCTCTGCAGTTAGTAGTGTGA
CATCGTCTACCTCCTTGTCAAAAGGAGGCGAGTGGGGACTGTGCTGCTGGCCGGCTCCTC
TTTGATGGCTTTACCCTACAAATCCAGCAGCCCAAAGCTGTCTGGGGCCATGAGCTCGAA
CTTCTTGGGAAATTATAC

Sequence 1708

CACGCGTCCGGGAAGCGGTGCGCTCCGTCACCACGGGAGTGCGGGAATCCGCCGTTTGCG

TABLE 1
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CTGAGGCAATGGCGGCAGCTGCGCCGGTGGCCGCGGACGACGATGAGCGGCGGCGGCGGC
CGGGGGCTGCACTGGAGGACTCCCGGTCCCAGGAAGGGGCAAATGGTGAGGCCGAGTCAG
GTGAGCTCAGCCGGCTTCGGGCTGAGCTGGCAGGCGCCCTGGCAGAAATGGAAACCATGA
AGGCTGTGGCAGAGGTGAGCGAGAGCACGAAGGCCGAGGCTGTGGCTGCGGTGCAGCGGC
AGTGCCAAGAGGAGGTGGCCTCGCTGCAGGCCATCCTGAAAGACTCCATCAGCAGCTATG
AAGCCCAGATCACCGCCCTGAAGCAGGAGCGACAGCAGCAGCAGCAGGGACTGTGAGGAG
AAGGAGCGGGAGCTGGGCCGCCTGAAGCAGCTGCTGTCCCGGGCCTACCCCCTGGA

Sequence 1709

CACGCGTCCGCGGACGCGTGGGTCCGCGGCGGCGTCCGGGGTCTCCAGTAGGGCTGACGC
TCCGGTGCTCGCACAATCCCCCGCCTCGGCTGGCAACGGGCGTCCCTCCACTCCCCGAGT
CCCCGGCAGCCGCCGCCACCCCAGCGCGCCCCGATCTGGCCCCCTGCCCCGCGAAGATGG
CTGCCGTACGCCGGGCCCGCAGTTATTGCCGCTGCCTGGTGCGCTTCTCCGACCGAGAAC
TCTGCTAAGCTCCGCTGCAGAGACAGGCAGGAGTAGACACCCGGACACCCAGCACCCCTC
CTTCGGGGGGCGGTGCAGAGGGGGCACGGAGAGCCCCTCGAGCGCAGCAGGCCGCCCCGC
CAGCATGGCAGAAGCTGAGGAAGATTGTCATTCTGATACTGTCAGAGCAGATGATGATGA
AGAAAATGAA

Sequence 1710

ACGCGTCCGGCGAGTGGCCTTCCCGGTTGGCGCGCGCCCGGGGCGGCGGCGCTGGAGGAG
CTCGAGACGGAGCCTAGTTATGTCTGGGAGGCGAACGCGGTCCGGAGGAGCCGCTCAGCG
CTCCGGGCCAAGGGCCCCATCTCCTACTAAGCCTCTGCGGAGGTCCCAGCGGAAATCAGG
CTCTGAACTCCCGAGCATCCTCCCTGAAATCTGGCCGAAGACACCCAGTGCGGCTGCAGT
CAGAAAGCCCATCGTCTTAAAGAGGATCGTGGCCCATGCTGTAGAGGTCCCAGCTGTCCA
ATCACCTCGCAGGAGCCCTAGGATTTCCTTTTTCTTGGAGAAAGAAAACGAGCCCCCTGG
CAGGGAGCTTACTAAGGAGGACCTTTTCAAGACACACAGCGTCCCTGCCACCCCCACCAG
CACTCCTGTGCCGAACCCTGAGGCCGAGTCCAGCTCCAAGGAAGGAGAGCTGGACGCCAG
AGACTTGGAAATGTCTAAGAAAGTCAGGCGTTCCTACAGCCGGCTGGAG

Sequence 1711

CNCGCGTCCGAAGGCACAGGCGTCTTGCTCTGTTGAAGCAAGTCAGTATCCGAGAAAACT
GCTGTTCCCTTTGTTGTGATGAGGTAGCAGACACACAATTGAAGCCATGTGGACACAGTG
ACCTGTGCATGGATTGTGCCTTGCAGCTGGAGACCTGCCCATTGTGTCGTAAAGAAATAG
TATCTAGAATCAGACAGATTTCTCATATTTCATGACACATGTGAAGAGGCATCGTGGACT
TTTTTCTACTCAATTCCAGCCAATGTTGAAAAGAAAAAGAAAAAAAAAAACTCTAATCAGT
TGTACACACATTGAAACTTATAGCCATGGCCAGATTTTATGCTAAAAATGGTAGTTTGTC
AAAGACAAAATTCTCTTAGAATCTAATCCAACTTGCCAGCCCTGAGAAAATCCCTTTTAA
GGCCAAGGGAAAGCTGAATGCTAGCAGCCAGGCCTGTGGTACTTCCATGAGAAACCATAG
CAGGACAATGCCCTC

Sequence 1712

CCACCGTCCGGGCGGCCAGAGGTGCGAGAAGGCCGAGGAGAAGGCCAAGGAGATTGCGAA
GATGGCAGAGATGCTGGTGGAGCTGGTCCGGCGGATAGAGAAGAGCGAGTCGTCGTGAGC
GCGGTCGGCGGTTTCCAGCCAATGGATTCTGGTCAACTGGTGGAGATTGGCTGACACCCT
GGAGAAGCCGAAACCAGAGAGCCTTTTGTTTTCTCTTTTTTCCTGTCTATGCTCTGTCTC
ACTTAACACTACGTTTTCTGCTATGGTCTGTGGTTGATGACCTCAATATGAGTTTCGATT
GTTAACCGTGTTTTTGTTTGGGAAGTAATTTTGTTTGAAAATGCTCTCACATACAGGAAT
TAGGGCCTAGATTGTAAGCTCTTGCAGCAGTCACATTTGTTCCCGGGCTTTGGTGGTTAT
TTTCTAAATTTTTGAGGTGCCTTTGCTATTTCTTGTGTGACCTGATAGCTTCCCCTG

Sequence 1713

GCGTCCGAGCCTCTGGGGGTGGATCCTGAAAGGTGGTCCAGCCGCCTGGCCCTGCGTGGG
ACCCTCCACCTGGCAGCAGGGTCTCGCTCTGTCACACAGGCTGGAGTGCAGTGGTGTGAT
CTTGGCTCATCGTAACCTCCACCTCCCGGGTTCAAGTGATTCTCATGCCTCAGCCTCCCG
AGTAGCTGGGATTACAGGTGGTGACTTCCAAGAGTGACTCCGTCGGAGGAAAATGACTCC
CCAGTCGCTGCTGCAGACGACACTGTTCCTGCTGAGTCTGCTCTTCCTGGTCCAAGGTGC

TABLE 1

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CCACGGCAGGGGCCACAGGGAAGACTTTCGCTTCTGCAGCCAGCGGAACCAGACACACAG
GAGCAGCCTCCACTACAAACCCACACCAGACCTGCGCATCTNCATCGAGAACTCCGAAGA
GGCCCTCACAGTCCATGCCCCTTTTCCCTGCAGCCCACCCTGCTTCCCGATCCTTCCCTG

Sequence 1714
GTCGCCACGCGTCCGCAGAAGATTGACAAATCTGAGGGCCGCTTCCATGTCCAGAACCTT
AGCCAGGTGGAGCAGGATGGGCGGACGGGGCATGGACTCCGCAGATCTTCCAAGTTCTGC
TTGAAGGAGCACAAAGCCCTCAAGACGTTAGGCATCATCATGGGCACTTTCACCCTCTGC
TGGCTGCCCTTCTTCATCGTTAACATTGTGCATGTGATCCAGGATAACCTCATCCGTAAG
GAAGTTTACATCCTCCTAAATTGGATAGGCTATGTCAATTCTGGTTTCAATCCCCTTATC
TACTGCCGGAGCCCAGATTTCAGGATTGCCTTCCAGGAGCTTCTGTGCCTGCGCAGGTCT
TCTTTGAAGGCCTATGGCAATGGCTACTCCAGCAACGGCAACACAGGGGAGCAGAGTGGA
TATCACGTGGAACAGGAGAAAGAAAATAAAC
Sequence 1715
CCCCCGTCCGCTTTTGTTNATCTAAAGGCTTNAGTCCCATTTTTTTATACGTTGTATTTT
AAAAACGTTTGAAAGGAGTCTTACACCTGTATCATGAAAACTGAATCCTTTTGAAATACC
ACTATATGAAGAGAGAGATGAAATTTAGTGAACAGAATTGGAAAAGGTGCTCATAATTTC
ACTATGCAAACTTACCCCAGTCTCTAAAAAAGTAATTTAGATTTAAAGTTCTTTGATGTA
TTTGATTTTCTAAATCTTTATGGTTATGATTTGGAATAAAATGTGCCTAATCCTGTGTTA
CATTCTGTTCTTAAATCTGAATGCCTTCTCATTTAATTCTGAGGAAATATCACACAAGTG
TCTTCATTGACCTTGAAGAAATGTATATACAGTTGCCTTATAAAACAACATAAATTTAGA
CCATAACTTTTATAGAGAAAGGGTTTTGTCAAATGTTTTCTGAAAATCTGAGTAATTCAA
AGCATGCCTCTGCCCCCTTTAATA
Sequence 1716
NGTCGCCACGCGTCCGGCGCTCTCGGCCGCCGCCGCCTCTGCGTGGGCCGGCCGGGAGGG
CCTCGGGGGACTGACTGACAGAGTTTCACTCCTGTTACCCAGGCTGGAGGACAATGATGT
GATCTCGGGTCACCACAACCTCCGCCTCCCGGATTCAAGCGATTCTCATGCCTCAGCCTC
CCGAGTAGCTCAGATTACAGGCATGTGCCACCACGCCCGGCTAATTTTGTATTTTCAGTC
GAGACGGGGTTTCCCCATGTTGGTCAGGCTAGTCTTGAATTCCCGACCTCAGGTGATCTG
TTCGCCTCGGCCTCCCAAAGTGCTGGGATTACAAGGCGTGAACCACTGCACCCGGCGAGG
CATTTTTTACTGTCTACAGAAACTTATTGTAATTCATTTTTCCTCACTCCAAGTAGTAAG
AATTATACCAAATTGAAAAGATATGAATGAGTATCCTAAAAAAAGAAAAAGGGA
Sequence 1717
CCGAGGCNCTGATAAGCCNTGGTAACGGGAAACACAGCTCTAACCTCACCTCATTCTCCA
GGTTACAAAGGCCATGTGCCCCTTTGAATCTGGCAGAGAAAGTTTCCTCGTTGTAAGTAT
TTGCATCTACTTCAAGCCAGATTCTTCTGCCTCTTTCTCCTTTCCAGACCCCTACTCTGT
GCAGTGCTGACCACAGCTAGAGCCACCGCCCCATTGCTCAACCAGTATTTATTTCCCTAA
ACGACCCTTCCTCATATTCCCTTCCCTCCACCTCTCCTTACCAAGCACCCAAAAGAGGAT
TTAGAACTAGCAGGGTGGACATCATTCTGGTTGTTTCTACTTTTCTCTGCCTAGCACAAA
ATTGGGAGAAAACTGGAGCCTCCATCCGCAGTCACACGTGTACAGATCTGGGNGATTTGG
ATGTAGGCTTTTTCTAACTTCTCTCTCAGAAGCTTCTACA
Sequence 1718
CGGACGCGTGGGTGCCGCCGCCGCCGTCGCTGTCGTAGTCGCCGCCGCCGCTGCCGGAGA
AAGAGCACGAGCGGGGAAGCCCCAGAGTGAAATCTAGCATCCTGCCGGCTGGTCTGCCCG
CCCCTCCTTCCTTTTCCCCCCGGCCCCNGTCCCCTCCCNCCGCAGGTGCCATCCGTCGCC
ATNCGCCTCTCTACCCTCNCATCCCCAGGTGAGGGGGGTGAGTTCAGGAAGCGGNNACCC
CNAGGAACCCANCAGGGTCACCATTTGCAGCGCAACATGGCAGGAGCTGGAGGAGGGAAT
GATATTCAGTGGCGTTTTTTTCAGGTGAAAGGAGCAGTATGATGATGATGTAGCAGNAAG
CANGATATNATTTCTACAGTANAATTTAATCNTTTCTGGGAGAAATTCTAGCAACANGAA
GATAAAAGGTGGGTAGAGGTTGTCATTCTTTCAACAGGGAGCAGGGAGAAC
Sequence 1719

TABLE 1

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TCCGGCCGGCCAGCGTCATCACCATCGTCAAGTCCACCCCGGGCTCGGGGTCTGGCCCCG
CCCACGGNCCGGACCCCGNCCACGGCCCGGCACNGCNGCTCCTAGTGCCCGCCCCCGCCA
TGCCTCANCCACGCCCCACCGGCCATAGNTNCCCTCCCCCAAAGNGCNCTGAGGCGCATG
NCTTCNTGNGACNCAANGNTCCCATTNTCTATTGCAGGCAACATGGCCATTCCCCGAAAC
TAAAAAGCAGTTGGGGNGGGNGAAAGTACNANGTGGAAAACCCAGNNATCACCGGNANTG
GNGGGAAAACAANGGCCNGNAGGGACACATTTCCAACTTTAAGCTGGGCNAGTGNNTGGG
GAACCAAAAAACCTGGGGNGGNCCCNTCANTGGCANGGCCCNTGAGNNCNCAGCNCATGN
GCATTTNCAGGGGNNGAACCAGNGGGACAAGGGGGACCTCAANAAAAATGNTGGNTGGGG
ANGGGCCCANTCNCTGGGCNNGGGGGAAGAACCCGNATTCTACNAGCAAAAGGGGANGGG
GGGGACNCAGCAAAGGCAATCANGGGAAGAAGGAAGATAAGGGTCNACCANCGGGAATNG
GCAAAGAAANGGGGGAA

Sequence 1720

CTGANGCTCGTTTTCGTGAAATTAAGCTTCAGAGGGAAGCCCGNGAAACACAGGAGAGCG
AGCGCAAGCCCCCACCATACAAGCACATCAAGGTGAATAAGCCTTACGGGAAAGTCCAGA
TCTACACAGCGGATATTTCAGAANTCCCTNAGTGCAACTGCAAGCCCACAGATGAGAATC
CTTGTGGCTTTGATTCGGAGTGTCTGAACAGGATGCTGATGTTTGAGTGCCACCCGCANG
TGTGTCCCGCGGGCGAGTTCTGCCAGAACCAGTGCTTCACCAAGCGCCAGTNCCCAGAGA
CCAAGATCATCAAGACAGATGGCAAAGGGTGGGGC

Sequence 1721

CATGGCTTCTGCGAGAAAAGTGATTTAGGCAGACGGAGGTTTTTTCTCAATCAGAGGCTT
TCAGTAACTCTGCTGATGCACAGAGAAGAGACTTCCTCAGCCTGCAGGCTACAAGAGCCA
ACTGTTAGTGCAAAAAAGGACTTTAATACAAATTTCTTATTCCAGAAATTTTGTTCCAGG
TCTGGACAAGCTGAGAAATTTATCATTGTTTTTCGAGTTTTTAAGATACCCACTTTTTCT
GAGAGGTATGGGTGTGTGTGCAAGGCACACACATACAGTCTTTCTGTACATGCATGCATA
TTTATGCATGTACAGGGAAGTATCCAGACACCAAATTTTTAATAAAATGAATTCCCCAAA
GGGGAGTCTTGACCTGAATTAAGGCTGTTGTTTATAGGGAAGCCAGATATAATTGATGNT
GAAAAANAAACTAATTTTTATACTTAATCACCGGCAGNTANCGGGGGCANGGGGGAAAAA
GTACAGANGGGGTGTATTTTTTGGTTTTTTTCT

Sequence 1722

TCGCCACGCGTCCGCTCTTAACACAGAGTCTGCAGCCCCTAACTGACACCCTGTCCTTCC
TCCTAGGAAGTGCTGGACTCCCTGGTCAGCAATGTCAACATTGAGCTGCTCAATGCCCTC
CGCTACCATATGGTGGGCAGGCGAGTCCTGACTGATGAGCTGAAACACGGCATGACCCTC
ACCTCTATGTACCAGAATTCCAACATCCAGATCCACCACTATCCTAATGGGATTGTAACT
GTGAACTGTGCCCGGCTGCTGAAAGCCGACCACCATGCAACCAA

Sequence 1723

ATCCGGTTCGCCCCNCGTCCGGGCGGCCGAGGCGGAGGCAGCGGCGGCGGGATGGCGGAC
GCCAACAAGGCCGAGGTGCCCGGGGCCACTGGTGGCGACAGCCCGCACCTGCAGCCCGCA
GAGCCGCCGGGCGAGCCGCGGCGAGAGCCGCACCCCGCGGAGGCGGAGAAGCAGCAGCCG
CAGCACAGCAGCAGCTCCAATGGCGTTAAAATGGAGAATGATGAATCAGCAAAAGAAGAG
AAATCTGACTTAAAGGAAAAATCTACAGGAAGTAAGAAGGCCAATAGATTTCATCCTTAT
TCAAAAGACAAGAAT

Sequence 1724

GTCGCCNCGCGTCCGTGCTTTTTTTCGACATACTGGTTTTTCTTTCTGTTTTTCTTCTCT
TTCTTCTATTTCTTGTGGATATTATGGCTAATAACACAACAAGTTTAGGGAGTCCATGGC
CAGAAAACTTTTGGGAGGACCTTATCATGTCCTTCACTGTATCCATGGCAATCGGGCTGG
TACTTGGAGGATTTATTTGGGCTGTGTTCATTTGTCTGTCTCGAAGAAGAAGAGCCAGTG
CTCCCATCTCACAGTGGAGTTCAAGCAGGAGATCTAGGTCTTCTTACACCCACGGCCTCA
ACAGAACTGGATTTTACCGCCACAGTGGCTGTGAACGTCGAAGCAACCTCAGCCTGGCCA
GTCTCACCTTCCAGCGACAAGCTTCCCTGGAACAAGCAAATTCCTTTCCAAGAAAATCAA
GTTTCAGAGCTTCTACTTTCCATCCC

Sequence 1725

TABLE 1
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AATNTGCCAGCCTTTATTGAGCTTTACAACTAACAACCTGATAGTTGGCAGTTAATTCAC
AGTTACAGATAATGCTTTTATTTACATAAATATACCAAGTAGTACCCTCTTATTGTATTC
ACTTCATCTATTTTCTTAGAATACTTGCAATTTCTAATGACCCCTTCCCTTTCCCTCCTG
CTGCCCTGTCCACCCTCTTTCCCCTTCTAACATCCTTAGAGGGATGAAATCTCAGCATAT
GTTGCAGGACACCAAAAGGAAGAAAACAATCAAGCAAATAAAATAAACAGTCAAACAAAC
CAGGAGTTTAAAACAACAACCCCAACAACAGAAGCCTTGGCAAAGAGGAATGAGTGATCA
GCAAGTGAACACACTCTATGTCAACTCTCCTTTTTATCCAGCTGAGATTTTATGGTAACC
TTTAATTTAA

Sequence 1726

CCNCGCGTCCGGAGCCGAGAGTGTGTGGAGCAGTTACAGCTGGAAGACCGGGTCCTCTGC
CTCCACAGTAGATGGCTGAATCCTCTATGCGGGACTGGCAAATGGCACTGTGGTCACCTT
CAACATAAAGAACAACAAACGACTTGAGATCTTTGAATGCCATGGCCCTCGGGCAGTCAG
CTGTCTTGCTACAGCTCAGGAAGGTGCCCGAAAACTGCTGGTCGTGGGGTCTTATGACTG
CACAATTAGTGTACGCGATGCCCGGAATGGACTGCTCCTCAGAACTCTGGAGGGCCATAG
CAAAACCATTCTTTGCATGAAGGTGGTGAATGATCTCGTGTTCAGTGGCTCCAGTGATCA
GTCAGTCCATGCTCACAACATTCACACTGGTGAGCTCGTGCGGATCTATAAAGGTCACAA
TCATGCAGTGACTGGTGGTGAATATCCTAGGAAAAGTGATGGTGACTGCTTGCCTGG

Sequence 1727

CNCGCGTCCGGATNAATATTTTCATCCCTGAGGTTAACAATTACCATCAAAATGTTTTGT
GGAGACTATGTGCAAGGAACCATCTTCCCAGCTCCCAATTTCAATCCCATAATGGATGCC
CAAATGCTAGGAGGAGCACTCCAAGGATTTGACTGTGACAAAGACATGCTGATCAACATT
CTGACTCAGCGCTGCAATGCACAAAGGATGATGATTGCAGAGGCATACCAGAGCATGTAT
GGCCGGGACCTGATTGGGGATATGAGGGAGCAGCTTTCGGATCACTTCAAAGATGTGATG
GCTGGCCTCATGTACCCACCACCACTGTATGATGCTCATGAGCTCTGGCATGCCATGAAG
GGAGTAGGCACTGATGAGAATTGCCTCATTGAAATACTAGCTTCAAGAACAAATGGAGAA
ATTTTCCAG

Sequence 1728

TCGACCACGCGTCCGATCCTGGATCTGGAGAGAGAGCTCTCCAAGCAAATCAACGTGTGC
CTCTGAGCCAGATGACGGGGTGGGACCCCGGTTAGTAAGGACCGGGCGCCCAGTGGCTAA
GGCGGTGCCCTGGTGACCAAGGAGAGCCAGACCTGTTGCTCAGGCCGAGCTCCTGGTTGC
CAGCGAGTTACCACGGGACCAGTCGCGTGTATGGCTGAGACTCATTCCCAGTTTCCAGGG
CCCGGTATTTGGACACTAGTTGCCAAGTCTGGGGCCTGGGGATTTTAGGGACCAGCGGTT
GTGACCATCTTTCCTGAGCACCAAGGGCTTCCCCTTTTGTTGCCAAAAAGGTAGTTCTCG
CGCTTGCTAGGCTGGCCTCTCTTGCCTCCCCTTGGCCGGGGC

Sequence 1729

TCCGAAACACCTGTCATTTTACACAAATGCGTTTTGAATGTCTGAAAGACAGCTCCTGCC
CTTAATTTAGATGTAAACCATTTAGTTTCAAACTAACCACCTGATAAAATCTATCAACAT
TTTATCATGAACTAGAGCAGATGTCTGTTATTTGATGTCTATGTTATTTGAGTTTACTGT
TTAATAAGTGAATTCATATCAATTAATCCTGCTAACAAATTTGACACTTAAGGTGATTCT
GAAAATCCTTTAAACTTAAAGTAGATGGAATCTTAAGTATGGGGCCTTTTAGTGTCCGTA
AAGAAAAACTGCATGCAACAAAATATAGCAGGTCCTCACTTGTTGAGATTCATGGAAATT
GTGACTTTAAATGAAATGACATGGCTGGGCATGGTGGCTCACACCTGTAATCAGCACTTT
GGGAGGCCACGGCGGGTGGATCACGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGG
T

Sequence 1730

CTGNGAGTTAAATTGGTCCAGAAACAGTTATGACCCTCTTTATACTGCCAAGAAATACGC
AGTCCCAGCCTTGGAAGCACACTGTGTAGAATTTCTCACCAAACATCTTAGGGCAGATAA
TGCCTTTATGTTACTTACTCAGGCTCGATTATTTGATGAACCTCAGCTTGCTAGTCTTTG
TCTAGATACAATAGACAAAAGCACAATGGATGCAATAAGTGCAGAAGGGTTTACTGATAT
TGATATAGATACACTCTGTGCAGTTTTAGAGAGAGACACACTCAGTATTCGAGAAAGTCG
ACTTTTTGGAGCTGTTGTACGCTGGGCAGAAGCAGAATGTCAGAGACAACAATTACCTGT

TABLE 1

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GACTTTTGGGAATAAACAAAAAGTTCTAGGAAAAGCACTTTCCTTAATCCCGGTTCCCAC
TGATGACAATTGAGG

Sequence 1731

ACCCCGCGTCCGAGCAGCCTCCAGTTGCCCCTACTTAGTGGCTTGCCCTCTGCCTGCCTC
AGCTGCTGCCTGACCGGCTGGGGGAGGCACTGGCGGGAGGCCTCGGGCTCCCCTGGAAGG
GCGCTGGGCTGGCGGGTCAGCTGGTGGTTCTTAGGTTTCCTTCTGTTTGTTAAAAGGGAC
AATGTGGCCACTTCTCTGTGGAAAGGGAGTTGGTTGGGGGGTTGAGATGGCCCGTGTTCA
TAACTCAGTTTCCTGTTTTGCACGATGTAAAAACCCTGTCTTTTTGCACGATACAGCCAA
AAGTATTGGCTGATTTCTTGCTGAGTGCCCTCTTAGTTGGTGTGTGAGGTCTTGGTGGGC
TCAGGCCAGCTGTTTGCGAGTGTGGGAACTCATAGGTTCTGTCTTTGTCTCTTCCTTTCA
CCTCATTCTGGTAGCAGCATAAAGGTTAGGCAATCACTGGGACCC

Sequence 1732

GCAAATCATACATTGCATTCCCCAAAGCATCTGAACGTACTTCTAGAAAACAAACCAACC
AAAAGGGAAAATATGCATGCTTTTTGTAATTAACTGGTGCTTTGAAAATCTTTTTTAAGG
GAGAAAAATCTCAACCAAAGTTATGCTCATCCAGACAAGCTGACCTTTGAGTTAATTTCA
GCACAACTCATTCTTCAGTGCCTCATGACTGAAAACAAAAAACAAAAAAAGAAAGCATCT
TCNCAATGAAGCTTCCANATAGCACCGTTTTGCTAAAAGATACATTCTCATTGTTTTCCA
ACAGNGATGGCTTCCACATAANGGTTAAACAAACTGGGNGCTTGGAAATAATTTNTNACN
GGTTACTTNTTCGCATTTTTTNGAACNAAGGAAANGGGATTCCCTTTTTTTAGGGGGGAA
GAATTGNGGNCAAGTTTAAAAAAAAAAAAAAAAAAAAAAAA

Sequence 1733

CGCGTCCGAATTTAGGAAGACCCCGGCGACCTGTTCCTCACCCCCGCTTCGCCCTCACAC
TTTCGGGATGTCTGCGATTCCTGCTGAGGAGAGCGACCAGCTGCTGATCCGACCCCTTGG
AGCTGGGCAAGAAGTAGGAAGATCATGTATTATTCTCGAGTTCAAAGGAAGAAAAATAAT
GCTCGACTGTGGGATCCACCCTGGCCTAGAAGGAATGGATGCTCTTCCTTATATTGATTT
AATTGGACCCACCTTGGAATTGNACCTCCNANTAANTNANNNCATTTTCATTTTGGAANC
NTGGGGGGGCNTNNCCCCNNGGTTTTTCNNAAAAANNCCCCTTNAAANGNNAAAAAATTT
TTTTNTTTTTTTNTCCCANAAAAAATTTTTTTTNAAAANNCCCNCTNNTNTNAGGGGNTNT
TNAAAAAATTNCCCAAAAAAANNNNCCCCCCTTTNTNTNTTTTNAAAAAAAAAAAAAAAA
AAAANATNGNCCCCNNAATTTTTTTTTTTTATATTTTTNANNAAAANAAANNTNTTTTTTN
AAAAAANTNTATNTTTTTTTTCNNTNNANNNNGTGNNNNCCCNNNTTTTTTTTTTTTT

Sequence 1734

CCACGCGTCCGCTCCCGCCAGGCGCTTTCTCGGACGCCTTGCCCAGCGGGCCGCCCGACC
CCCTGCACCATGGACCCCGCTCGCCCCCTGGGGCTGTCGATTCTGCTGCTTTTCCTGACG
GAGGCTGCACTGGGCGATGCTGCTCAGGAGCCAACAGGAAATAACGCGGAGATCTGTCTC
CTGCCCCTAGACTACGGACCCTGCCGGGCCCTACTTCTCCGTTACTACTACGACAGGTAC
ACGCAGAGCTGCCGCCAGTTCCTGTACGGGGGCTGCGAGGGCAACGCCAACAATTTTTAC
ACCTTGGGAAGGTTTGCNACNATTCTTTGTTTGGANGANTAAAAAAAGGTTCCCAAAATT
TTCCCNCTTTNAAAAGANNNTNGNGACCNNNCACTNGGGGGGGGGCCCCAAAAAAAAATT
TTTTTTTNTTAANNCCCCCCCGGGGNNGNAAAAANTTTTTTTTGGGGGGGGNCCCCCCCC
NNGGGNNAAAANNNTTTTANAAAAAATTTTTTTTTTTNTTTTTCCCCAAAAAAAAATTTT
T

Sequence 1735

GCGTCCGAAAATACAATACACGGACTCTTTCGAGGCCCTGTAATTGGAATGAGTCCACTT
TAAATCCTTTAACGAGGATCCATTGGAGGGCACTTCCAGAATACCTCCTCCCCCAGCGCC
CGCTGCCAGCCCCACACCAGGTGTGAGAACCAAGGTCTGGTGGAGGCAGCTCCAGGCACT
GCCCAGTCCGACACAACCTGCAAAAATCCATTAGAGCCACTGCCCCCAGAGATG

Sequence 1736

CGAACCTCCTGGTTCCAAGTGGGAGACATGGTGCTGTCGGAGCTAGCGGCGCGCCTCAAC
TGCGCCGAGTACAAGAACTGGGTGAAGGCGGGCCACTGCCTGCTACTGCTTGCGCAGCTG
NCTGCAGGGTTTCGTCGNCCGCNAGGTGCTCTCCTTTCCACCCGCGGCCTACTCGCCGCA

TABLE 1
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GCCCCCGGC
Sequence 1737
ATCCTTTTGCCTAAAGATGTAAACAAAACTCAAGACAGAAGGAATCAGGGAATATGTGCT
NTTGTGNGCATCTTGTTTACATTTNGGGATCAANTGATGGCAAAAGAAGTAATGAGACCA
CTNNAAATTGTTTTNCANTTGNNTTTAAAANACCAGGGTTCCTCATTTTCTTTGATTTTG
NAAGTTTTAACAATTGACCTTCTTAAGNGACATTCTCTTTCAAAAAAGANANGTAAANCA
GGNGAAATGAAGGGTGGNTGGGGAAA
Sequence 1738
CCGGCTCATTCCCTGAGGCCGGCCCGCGTCCCGTCAGGGCGCCGCGCGGGGTTAGCGCGG
GGTCAGCGGAGGTCAGCGGGGGTCAGCAGCAGCGGCTCCGAGGGCGCGGCGGACGCAGGA
TGTACACGCTGCTGTCGGGCTTGTACAAGTACATGTTTCAGAAGGACGAGTACTGCATCC
TGATCCTGGGCCTGGACAATGCTGGGAAGACGACCTTCCTGGAGCAGTCGAAAACCCGAT
TT
Sequence 1739
GTCCGNCCACGCGTCCGATTTCTTGTGTGCTTTGAAAAAAGTTTCAGCTTGCTGTCTCTT
TTAGTGTTTTAAAGAAGTGTTATACAAAGCATTGTTTGCAAAATATAGGGAGGATAATGG
GAGTCCCACTTTAANTTNGGGAANTCNTTGGGNGANCTTNTTNATCCAAGGTTTANTCAA
GCCTTCNTTTTCCAACTTTTAAAAAATTTTTTGTTAAAAAAGCCACCCTTTGCTTTANGA
AAAAATTTTTAAAAATATTTTANTGTTCTTGCNACCAAATTTGTTCTTNAAAAAATAATA
AAAACTTGNTGGCAAATTCNTTTGGTCNNTTTAAAAAAAAAAAAAA
Sequence 1740
ACGCGTCCGCAGCCATCTTGGGATCTGGGCAAGTGAGCGAGCTCCTTCCTCACCGGGCTG
ACTAGCCTCTCCTTTCCCTGTCCCCCTCCATCGCTGCTCTGCAGGAAGCCAGCCCCCAGG
GCCAGTCCCGGAGGGGCTGATCCGCATCTACAGCATGAGGTTCTGCCCCTATTCTCACAG
GACCCGCCTCGTCCTCAAGGCCAAAGACATCAGACATGAAGTGGTCAACATTAACCTGAG
AAACAAGCCTGAATGGTACTATACAAAGCACCCTTTTGGCCACATTCCTGTCCTGGAGAC
CAGCCAATGTCAACTGATCTATGAATCTGTTATTGCTTGTGAGTACCTGGATGATGCTTA
TCCAGGAAGGAAGCTGTTTCCATATGACCCTTATGAACGAGCTCGCCAAAAGATGTTATT
GGAGCT
Sequence 1741
CANCGCCCCGGCCCGNTCAAGCAGCNTAATAAAGCTCATANAGGCGGACNGGCATCNGGG
TCTNGGGATCTGCACAGCGGGACTGGCATAGGGCCGTCTGGCACTGAAAACCCTAANCAA
GAAGGTGTGAAAAGAAACTTNAGCNGANNCGACCNGAGGCATCNNCGCCAGCCAGCTCCG
AAAGCAGAAGANGGAGGCGGTTCTGGCATGAGAAAGANACAGCTGGGCTGGCNAGGATAG
GCCCCTCCTTCATCAAGGTACTGGTGGTGCCCCTGCACAGNANAATTNTNCCTGCCAGAG
GCCATGCANCCTGCTTCAAGATAGGGACACTGGAACAGATACACTTGAATGAATTGGGGA
AACACCCCAGAACTTTT
Sequence 1742
CACGCGTCCGTTTTTTNCAAGGGTCTATTGTTTCGATTAGTTTCCTTGCAGGAGGTAGAA
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AAGTCACCTGATACTTTTTGTTTTTTCAAGAAGGAAGAGAGAACCCTGTTGCCTCAGTTA
CTAGCAATGATACAATTCTCAAAATCTGGTCTTTTTTTGTTTCTTTGAAATAGTTTCTCC
ATGTTGTGTGACACAGCAGCCCCTGTCTTATCATAGTTGTCTTCCCTCCACCACCTGTAC
CAGAGATGTTGGATATGTTGGAGGTGAAGGTGTGCAAGGTTTTTAACTAACTGTTCTAAT
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ATTTTTTTTCTTTGATGAATTTATGTGCTTAGTTTGGAGAATCGAGAGTTGGCTGGGAAA
AGATTTCTGAGGAGTTAAGGGACTCTGGTGCTGTTTGGGAA
Sequence 1743
GTGATTAGAAGTAAGCGNTGATGAGGCTGAAGAAAAGGAAGACAAAACTGAGTACTTGGA
GGAACGAAGAGTAATGGGATATCCAATAAACTGAGAATGTTTCTTCACAATCTCCTTTAT
TCTTCGTTCCTCCAAGTACTCAGTTTGGTCTTCTTTCAGGTGTAGGAACGTGATAAAGAA

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GTAAGCGATGATGAGGCTGAAGAAAAGGAAGACAAAGAAGAAGAAAAAAAAAAAAAAAGG

Sequence 1744
CGATTTCTTTGTTGGACAACCCAGCTGGGGCTAGGAATGGTTCAGAAGGTTTAAGGCCGG
AANGGGNAATGAAGGGGCCCGGCGCTAACCCTCTAGGGACCTGTTTTGCTTCTGTTTAAA
CCAAATGGGCAGTCTGTCATTACACACACCCTGNGTCTTCATATGTGGCTCGCCAGTATA
ATGGAATGTGCTTACAAGGGCCAGCAGGAGTGCCTGGTCGAGACGGGAGCCCTGGGGCCA
ATGGCATTCCGGGTACACCTGGGATCCCAGGTCGGGATGGATTCAAAGGAGAAAAGGGGG
AATGTCTGAGGGAAAGCTTTNAGGAGTCCTGGACACCCAACTACAAGCAGTGTTCATGGA
GTTCATTGAATTATGGCATANATCTTGGGAAAANTGCGGAGTGTACATTTACAAANATGC
TTTTCAAATAGTTGCTNTAANANTTTTGTTCAG
Sequence 1745
GGACGCGTGGGTGGAAATGTAAACAAGAATAGACTGTTCATTCCTGATGGCTTTTAGTCT
ATACTAACATATTGTTTGTCATGGCATCCGAGACTGAAAAGACCCATGCTTTACTGCAGA
CTTGTAGCACTGAATCTCTTATTTCCAGCCTTGGGTCTGGGGGCATTTTGCCTCGTAGCT
GACAGACTTCTTCAGTTTTCCACAATTCAGCAAAATGACTGGCTTCGTGCTCTCTCAGAT
AATGCAGTACATTGTGTAATTGGCATGTGGTCATGGGCGGTAGTCACTGGAATCAAGAAG
AAGACTGACTTTGGAGAAATCATTTTAGCTGGATTTTTAGCCTCTGTTATTGATGTAGAC
CACTTTTTTCTAGCTGGATCCATGTCTTTAAAGGCTGCTTTGACTCTCCCGCGAAGACCT
TTCCTTCACTGTTCTACTGTGATTCCCGTTGTGGTTCTGACCCTGAAATTTACTATGCAC
CTTTTCAAGCTCAAAGACTCATGGTGCTTTCTTCTGGGATGGTATTTATATCC
Sequence 1746
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AAGTGGAATATGATACAACTGTTATTTTCAGAACATATTTCTTTAGGGCTATTTAAAATA
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TGTTTATGACTTCTACAGTTTCCTGTATCTAGTGTTAAGTTGTAAGGAAAAACTAAACAT
GCAATTTAAAGGTAAACTTGATAACTATTTATGGAACATAAGCATACACCAATGGTTATT
TCTCACAGTTTTCATGCGCATTTGTTTATTGTTTACTTGGATTAGGCTCATTAAAAACCA
TAATGCTGGTCACAATTAGAATGCTAATATTTGGGGAAGCTATGCAGAAAATATTT
Sequence 1747
CNTGTGTGCCATGTATACCTAACGGGAGTCCCAGAAGACAGGAGAGAAAAAAAGAAAGAA
ATAAAAAGAATATTTGAATTTAAAATTGCTTGAAAATGTCTCAAATTTGATGAAAAATAT
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TCCACATCCAGCAAAAATCAAAAACGAAGGAGAAATCTGTTGCATGTGAGCTGAATAGAA
TTTGTATTCTGCTGTTGTTGGATTGAAGTATTCTTTAAATGTCAATTANATCAATTTG
Sequence 1748
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CTTTTGTTTTGGAACAAATTAAGTAAGGGAGCTGCCCAATCCTGTCTGATATTTCTTGAG
GCTGCCCTCTATCATTTTATCTTTCCCATGGGCAGAGATGTTGTAAGTGGGATTCTTAAT
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GACTGATGTGATACATCCAGAGGTAAAATGCATTTAAACATATTAAAGTATTTGCCAAAG
ATACAATTTTCTTGCTGACATAAAAATCACACAAACAAGTCCCCCCCAAACCACAACTGT
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AAAAAGATGTTCAAGCTATTAGAGGGAATGGTAAA
Sequence 1749

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GCCCNTCCCGACCCTCCAGCTCATGGTGTCTGGGGCCTGCGGCTAGACTCTTGGAACATT
CTGGAACTCTCTCCTTTCCTGGCTGGGGCTCTGACCACAAACTCCCCTCCAGGCTGCCCC
TGGGACATGGTGGTGATGTGGGTGCAGGAGCCAGTGTCTGTTGTCGGGACTCGCAAGTGC
CCTCATCACAGCCACCCCCACCACGAGTGTCTCCCCAGTGCAGACTCAAGTTATGCTTGA
AATGAAAAAGTCTATCTGGTAGTGGGTAAACGTAGACCTGGCACTGTTCCACGCGGGCGC
CCCAAGCCTGCCACTCCTGTGTCCCTGCCTCCCTGGGCTCCCGAGATAGGCACCACTGTA
TCCTCCAGCTCCTTCCTTCCTTCCCCCAGGAACACGGAGGCCACCGAGGGGGCTGGGCCT
ATCAGGAGGACACAGGCTGCAGCCTGGCACCCACCCCTCCATCTTCACCCCACATGGAAG
ACTTGTCTTCAAC

Sequence 1750

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ACTAAAGGATACATAAAGAATGCACAAAATGTCAACATCAGCAGAGATGCCCAGATCTAT
TTATCTCTAAGTATATTTGAAGTGATTGCTGNTTATATGTTGTCATTTTAAAATTGTGTG
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ATAAAATCAATGAACATTAGAAAATAAAATATAGATGCTTACCATTAACCTACCAACTCT
TAATATCCTTAAATTATGTGATATATAAAGAGGACTGTTACTTTTTTACTTTCTTTTTTT
TTTTTTTTGGCTTTGCTTTATTTATTTGGAGT

Sequence 1751

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GAATTTAGGATTGCTCTTTGGATTTGCCATTATGCTGGTGATTGCCCTCTATGAAGATAA
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TACCATGCAGCTTTGCATCTGTTCCTTGTACTGTATGCACATTGCTCAAAGGAAAGTCAG
TGGCTTGCACTACTTACAAGTTTCATAGATTTGAGCCTAACCACAAGAGGCTGGTGCTTA
GTACTGTTTTCCCTGCACGTAGGGGTCTTTTAAAAATATAAAGCTTGTGATAAAGAGAGG
A

Sequence 1752

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AGCCTCCGAGACCACTACCCTCAGCCCAGAGGCCACCACCTTTAATGACACCAGAATCCC
TGATGCAGCTGGTGGCACGGCCGGCGTGGGTACCATGCTTCTGTCCTTTGGGATCATCAC
GGTGATAGGCCTGGCTGTGGCCTTGGTTTTGTACATCAGGAAGAAGAAGAGGCTGGAGAA
GCTACGCCACCAGCTCATGCCCATGTACAACTTCGACCCCACGGAGGAACAAGATGAGTT
GGAGCAGGAGCTGCTGGAGCATGGGCGGGACGCCGCCTCTGTACAGGCTGCTACTTCTGT
GCAGGCCATGCAGGGCAAGACTACTCTGCCCTCCCAGGGCCCACTCCAGAGACCCAGCCG
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Sequence 1753

GTCGCCCCGCGTCCGGTGCTCTCATGTCATCTCAGAGTTCCAGCTTATCAGAGGCATGTA
GCAGGGAGGCTTATTCCAGCCATAACTGGGCTCTACCTCCAGCCTCCAGAAGTAATCCCC
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AGCCTGAGCTTATGAATGCCAACCCTTCTCCTCCACCAAGTCCTTCTCAGCAAATCAACC
TTGGCCCGTCGTCCAATCCTCATGCTAAACCATCTGACTTTCACTTCTTGAAAGTGATCG
GAAAGGGCAGTTTTGGAAAGGTTCTTCTAGCAAGACACAAGGCA

Sequence 1754

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CTTGAGAAAACCCCCAGGATCACTTCTCCTTGGCTTCCTTATTTTCTTGAGGCAGGTCGC
ACGTTCTACCTGCCCAAGACGTGTGATATCAGCTTCTCAGATCCAGACGACCTCCTCAAC
TTCAAGCTGGTCATCTTGTCCTGATGAGGGCTTCTACAAGAGTGGGAAGTTTGTGTTCAG

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TTTTAAGGTGGGCCAGGGTTACCCGCATGATCCCCCCAAGGTGAAGTGTGAGACAATGGT
CTATCACCCCAACATTGACCTNGNGGGCAACCGTCTNGCCTCAACATCCTTCAGGAGAGG
ACTGGAAAGCCAGTCCTTACNATANACTCCATAAATTTTATTGGGCCTTGCNGGTATTCT
TTTTTTNTTTGNGAGCNCCAAACCCCNNGANGGACCCCCACTTGGAACCNAAGGGAGGGC
NCGCAAGAAGGGTTCCTTGGCAAGAAACAAACCCGG

Sequence 1755
TCCGGCCCGCCCACCCGCCGCCAGCTACCATGGATGATGATATCGCCGCGCTCGTNTGTC
GACAACGGCTCCGGCATGTGCANGGCCGGCTACGCGGGCGANGATGCCCCNCGGNCCGTT
TTCCCTCATCGTGGGGCGCCCCANGCNCCAGNTGCGTGATGGTGGGCATGGGTCAGAAGG
ATTTCTATGTGGGCGACGAGGNCCAGAGCAATGAGAGGCATNCTNACCCTGNATTACCCC
ATCAGAGCACGGCATNTNTCACCAACTGGGACCGACATTGGAGAAAATCTGGCACCACAC
CTTTCTACAATGAGCTGCGTGTGGCTCCCGAGGAGCACCCCGTGCTGCTTGACCGAGGCC
CCCCTGAACCCCCAANGNCAACCCGNCGAGAANGATNACCCCAGATNCATGTTTTGAGGA
CCCTTTTCAACACCCCCAAGCCCATGGTTACCGTTTGCCT

Sequence 1756
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CGGTGCCTGGGCTCTCTCCGCTCCCTGAGGCGCCGCTGGGGAGTCGAACCCTGATGATGG
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CAGCCCACTGTTGCATAGGACTAACTACTACAAATCATGCTGAGACCGAGCTATTTTTGC
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TTGCTCTGAAAATTGGAAAACCAANAAGGTTTTGNTGTTATTGTGTGACCCCACCTGAAT
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Sequence 1757
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GAGGCTGGTTCCAGACTCTGAAGACTGCCTGGGGCCAGCAGCCTGATTTTAGCANCTAAT
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CCAAAAAAAGTTGGCCTAAAAAAATCNACAGGTTGAAATGGAAGGGTGNGAAGNCTTTTCT
GGGGTGGATTGGAAANGGGCACCCTTTTTCGGNTNGGGGGGCNTGGGT

Sequence 1758
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GCAGGTGTTAAGTACCCCTTCAGTGGCTGGTAGTGAGAATTTGTTAAAAACTGACAAAAG
AAGTA

Sequence 1759
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TCCCAGGCGACCCGGAGGTAGCATTTCCCAGGAGGCACGGGCCCCCCCAGGGGGATGGGC
ACAGCCACGCCAGATGGACGAGAAGACCAAGAAAGCAGAGGAAATGGCCCTGAGCCTCAC
CCGAGCAGTGGCGGGCGGGGATGAACAGGTGGCAATGAAGTGTGCCATCTGGCTGGCAGA
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GAAGGGAAGA

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Sequence 1760
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ACACTCCCTGCCACTGTTCTGCGCTTTAATTGTGGGAGAAGAGAGGAGAGGAGGGCTCAG
CGGTGGGGCAGCCTGTCCGGGGCGCTGACCCACCATCACCCTGCTCTGCCCAGCCTCGCG
TGACCTCAGAGAGGTGGGGATAGGGGACACCTTCAGCCTCCAGCATGTGTGGCCACTTGT
ACCCCCACCCACCCTTGGGGGGAGCATGATGGGCAGGTTGAGGGGCAGGATGGAGACCAAG
GGGAANTCAGTGAGCAGNAGGCCCTGGGGAAGTGTCCGGTCGGGGTTGGACTTGAGGGAC
AGAGGGGCCCAACACTTTCTTGCCCCTTTTG
Sequence 1761
CCGCCAGGCCCACCATCACCACCGCCTCTGGCCGNCACCCCCATCTTNCACCTGTGCCCT
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TGCCCTCCTGGACAAGGCTAACATNCCACTTAGCCAGCACCCTGCACCTGCTGACGTCCC
CACNTCCCTTGGTTGGTGGGGACATTGCTTCTCTGGGGCTTTTTGGAATTGGGGGGCGCC
CTTCTCTGCTCCTTTCACTGGTTAGNCTCTGGCTACCNATAAGCANGAGGCCNTGGGAAG
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Sequence 1762
AGTCGACCCCGCGTCCGGCAAGCGGGACCGGTAGGGGCCGGAGCATGCGGCGGCGGCGCT
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TGGTGAAAGCGGGGCCGTGAGGGGGGCAGGNGCCGGGAGCCGGACCCGCAGTAGCGGCAG
CAGCGGCGCCGCCTCCCAGAGTTCAGACCCAGGAAGCGGCCGGGAGGGCAGGAGCGAATC
GGGCCGCCGCCGCCATGGAGCTGAGAGTCGGGAACAGGTACCGGCTGGGCCGGAAGATCG
GCAGCGGCTCCTTCGGAGACATCTATCTCGGTACCGGACATTGCTGCAGGAGAAGAGGTT
GCCA
Sequence 1763
CGCGTCCGGGGTGATTTGAGCTCATCTTGTTGAGCAAGGGGAGTGAAACCACAGAAACTG
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CACACACACAATACAAGACATTTTTCCTGTTTTAGAAAATATAGCCCTTGTTTGGATTAC
TGCTGTCTGAGCACTAGAAATTTCTAATGGAAAGAGGCCTCTGAATGGCTAAGGGAACAT
CTGGAAAGGAAGGAAAATGAGCCTNAAGGTTTTTGGTGCTTGGTTTTTGGTTCTTTTTCT
TTCNTGGTTCCTTTTTTGGTTT
Sequence 1764
AGTCGACCCCGCGTCCGCGGACGCGTGGGCGGACGCGTGGGGGCCCTCCGGGAAGATGGC
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TAGGGGGTCCCTGCGCAAAACCTCCTGGGCAGAGTGGGGTCACAGGGAACTGCGACTGGG
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GCTCAGTGAGAAACAGCTAAGCCAAGCCACTGCTGCTGCCACCAACCACACCACTGATAA
TGGTGTGGGTCCTGAGGAAGAGAGCCGTGGACCCAAATCAATACTACAAAATCCCGCAGT
CAAGCAATTCATCAGCTGAAGGTCAATGGGGAA
Sequence 1765
TCACCCCGCGTCCGACTTGAATCCCGTCAGCTTAAAACTTGTGTAAGGGAATCCTGACTT
TTAAAATGTGAGGGTATTTGGATCTGTGTTGAAAGTCGTATATTTTTATCTGTGCGGTGC
TGAGTGCAGGCCACCAGCTCCTAAATAGAGGTTCCCTATATGCGCGTATGACATGGTGAA
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TCTGTGTGCTTGTGAAAGTGTCCAGGCGTGTGCACAGCCAGTGCGCCCACTTCCGGGCTC
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Sequence 1766
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TGCAGGAGAGCCTGGCCCAGGCGCGGCTGGGCTCTCGACGCCCTGCGCGCCTGCTGATGC
CTAGCCAGTTGGTAAGCCAGGTGGGCAAAGAACTACTGCGCCTGGCCTACAGCGAGCCGT
GCGGCCTGCGGGGGGCGCTGCTGGACGTCTGCGTGGAGCAGGGCAAGAGCTGCCACAGCG
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CGCCTGGACTCACGACTCTGGCCCAAGAT

Sequence 1767
CCGGAAGAGTGCTTTATTGTGAAATTATTTAAAACTGTCCTTTAAAAGAAAAAGAGGAAA
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GCAATGATTAATGCTGCAAAATGTATGGTTATGTTACCGTATATTCACAAAAGAAATATT
ATTACAAGGTTTCAGAGGTAGCCAATTGCATTCTTTTGGAAATTTACTGTACTGTTTCAA
TGTGTTAAGTGCCTTGTTGTAAAGTAAAATTTTAAGTCTAGATTCATTATTTTCCTGACA
TATATTTTTCATTATGATATCTACTGTATGCTATTGTGATAGTTTTATGAAATGCTTACA
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T

Sequence 1768
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GCCAAAAAAATACCTTTTCTTC

Sequence 1769
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AAAAAAAAGG

Sequence 1770
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ATTAATTAACTCATCAACGGCAGAACCAGTTAAAGAAGAGGCCAAAACTTCAAATCCAAC
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Sequence 1771
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GCCCGGCGGCTATGCCGAGAGCCCGGAGCGGCCGGAGGAGCAGAGGGGCCGNCGGGAGGG

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AGGAAACCTTTCTGCGAGTACGAGCCAACCGGCAGACCCGACTGAATGCTCGGATTGGGA
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AGAAGCGGATACGGGCCACCACTCTCCTGGAAGGTGGCTTCCGAGGCTCTGGCT
Sequence 1772
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AAACCCTGGTTGCCTNTTTTTGGCA
Sequence 1773
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CTGCAGAGCGGTAGAGGTGTATATTTTTCATACTGTGGGGCAAAGTATTTGTGCTGCTTT
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CTGTAGAAGGTGCCACAGTGAGACCTGGAG
Sequence 1774
CCCCGCGTCCGCTTCCGGTTGCTAACGGTTCCCAAACAGCCCCCGAAAACGCTACGTGAG
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Sequence 1775
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GGGTTGGAGCCCCCAAACAGAGTCCTTAGTGGGGTGCTGCCTAGTGGAGCTGTGAGAAGA
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Sequence 1776
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ATATATATATATATATGTATATATATACACATATATACGTATATATACATATATATGTAT
ATGGAGTCTCGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCACGATCCCAGCTCACTGCAA
CCTCCGCCTCCCGGGTTCGGGCGATTCTTCTGCCTCAGCCTCCCTGGTAGCTGGGGCTGC
AGCCATGTGCCACCAAGCCCAGCTAATTTGTATTTTTGGTGGGAGACAGGGTTTCACCAT
GTTGGTGAGGCTGGTCTGGAACTGACCTCAAGTGATCTGCCCACCTCGGCCTCCCAAGGT
GTTGGGATTAACAGGTGTGAAGCCACCACGCCTGTCCCAGTATATTGTTTAACAAGTTTA
TTTTTGGGTGAAAAATTCTCTTTAATGGGAAGA

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Sequence 1777
CCACGCGTCCGGCGCCCCCTCCCGGCCGCCATGTTGGCTGGTGTGTGGGTGTCAAACTGA
GCCAGACGCGGCGGTGGCGGCGGCTCCGCGGGCTACGGTCGCTCCCGCCTCTCGAGCGCT
GCCGGTGGCCGCAGCGGCGCACCCACGCCGGCCCGGAGGAGCAGAGTGCTAAGTGCTGGG
TGCTCACTGGTGATGAGGCAGATGAAGGTTACCAAACTTGTGGACAGGAGCCTCATATCA
GAGACGTGGACCTCACTGTAGCCTGGTCATGGCTTCCAGCTTTTCGAATCTGAGGCTCCA
AAGGAGGAAATGACCATTCAGGGATCTTACTCCAGCTTGATTACGGAGACTGAACCTTCA
TAGGGTGCGCACTTACCAAGGACAGGAAGGTTTCTCTGTTTGAAGGGCTTTAAACTTATA
ACAAAGAAAATAA
Sequence 1778
CGCGTCCGAGACAGTTCATACTGGAGACAAACCCTACAAATGTAATGAATGTGGCAAAAC
CTTTAAACGGAACTCAAGCCTCACTGCACATCATATAATCCATGCAGGAAAGAAACCATA
TACATGTGATGTATGTGGCAAGGTCTTTTATCAGAATTCACAACTTGTAAGGCACCAGAT
AATTCATACTGGAGAGACACCTTACAAATGTAATGAATGTGGCAAGGTCTTCTTTCAACG
TTCACGTCTTGCAGGGCACCGGAGAATTCATACTGGAGAGAAACCCTACAAATGTAATGA
ATGTGGCAAGGTCTTCAGTCAACATTCACATCTTGCAGTGCATCAGAGAGTTCATACTGG
AGAGAAACCTTACAAATGTAATGAATGTGGCAAAGCCTTTAATTG
Sequence 1779
NCCCCGCGTCCGCTGTTGGAGCAGTAGACTTCTCACATCTTTTTGTCACTTCATCGTTTG
ACTGGACAGTAAAGCTTTGGACAACTAAGAATAACAAGCCTTTGTATTCATTTGAAGATA
ATGCAGACTATGTTTATGATGTTATGTGGTCACCTACCCACCCAGCCCTGTTTGCCTGTG
TGGATGGCATGGGGAGATTGGATTTGTGGAATCTCAATAATGACACAGAGGTACCAACTG
CCAGCATTTCTGTGGAGGGTAATCCTGCTCTTAATCGTGTGAGATGGACCCATTCTGGCA
GAGAGATTGCTGTGGGTGATTCTGAAGGACAGATTGTTATATACCGATGTGGGAGAGATT
GCTGTTCCCCGCAATGATGAATGGGCACGGTTTGGCCGAACACTTGCAGAAATTAATGCA
AACCGAGCTGATGCAGAGGAGGAAGCAGCTACCCGAATCCTGCTTAGTTCCTGAAAAGGG
GAGTGTAACTAGTGGATTGGGAAAGGGTC
Sequence 1780
AGTAGGAACCAAGAAAACTTCTTTTGCCAACTTTACAGGATATCTGGTAAACTATTACAT
NGTCAGGCCAAACATGCTCCTTGCATTTTTGTTGGCTGAATNTGGGTACAGAGTGGTTCT
ATACGATGGTAATAACCAACTTGNAATCAAAGGAAGNATTCCAACAGAAACAGATAGGAN
AANGTCTTGAGAAGATATATNAAGGAATNTGTCACTTGTCACACNATGCCCGATCACCGG
GACACAAATTCCTGCAAGAAGGGACCACACCGGACTCTATTTTCCTACAAGNGCAGGAAA
CCTTGTTCATTCTAAGCATGGTTTCTGNTTGCCCAGGTATTCAAAAAA
Sequence 1781
ACCCACGCGTCCGGCTGCGTTGGGCTTGCGTGCGGCTCGCTAAGACTATGGCGTCCGGGC
CTCATTCGACAGCTACTGCTGCCGCAGCCGNCTCATCGGCCGCNNCAAGCGCGGGCGGCT
CCAGCTCCGGGACGACGACCACGACNACNACCACGACGGGAGGGATC
Sequence 1782
CCGCGTNCGTTTGTGTTGAATGGNTTGTATACTTCTTTACACAACCTATCCATTACTTAA
GGAATCTGCTCTTATTCTTCTACAAACTGNTCNGGAACAAANTGATATCAGAAATTNGAT
AAAAGAACTTCGAAATGNTTGAAGGAGTNGAGGAAGNTCATTGAATTNCATGTTTGGCAA
CTTNGCTGGAAGCAGAATCATTTGCCACTG
Sequence 1783
GTCGACCCCGCGTCCGGGCCCGTCTACAAGGNTTGTAGATAAAATAGAAACATACCTTCC
TTGAAAATGCAGAATAAATTTTTTAAAGGCAGGAAGGAAGTGTTTGAACCATGTGTCAAC
AAGCTTTACTGTCAAAGCAGGCTTTTGGTATGGGAAGAAAAATACTTATAAATACTNGTN
TTAATATTTGCTTTATTAAAATACATTTAAAATACAGCATTTTTAAATCTCTAAGCTCAA
CTTGAAGATATAAGAACAGTAAATTTGATAAAAATGAGAAATTACATTCCCATTTCTTTA
ACAATTTGTAAATTCCAATTATCCTGAACATTTAACACCATTTACATATTTTATTAATCA
CATTTTCTTAAACATTTGATAAGAGATTTAATATTTTGATCCAACTACCA

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Sequence 1784

GCGTCCGCGGACGCGTGGGTGTGGAGCCTGTTACCTCCGCATTTGACACGAGTCTGCTGT
GAACCCCGCAACCTCCTCCCCACCTCCCATCTCTCCTTCCAGGCCCATCCCTGGCCCAGA
GCAGGAGGGAGGGAGGGACAGATGGCGGTGGGTTTTTGTATCTGAATTTGCTGTCTTGAA
CATAAAGAATCTATCTGCTGTTGAAAAAAAAAAAAAAAAAAAGGnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnTCACAAATAAAGCAnnnnnnnnnnnnnnnnnnnnnnnnnGTTTGTCCAAACTCATC
AATGGTATCTTATCAATGTCTNGGATCCCCCGGGTACCCGANGCTCGAATTTAATTTCCT
TTTTTC

Sequence 1785

ACGCGTCCGGCTTCGTTCTCCCGTCCCTCCCCGCGCCTTGGCGCGGGGGGGTCGACTAGCC
AAGTGAGGCGGGAGGCGACTCGGACCTTTCCCTGCATTTCGTTTCGGCCAGTGCCGGGGGG
CTACCCGCCCTGGGGCCTGGGATCCTTGGGGCCCGTGAGGCCCACTCTTAGCGGCCGGGG
CCTACCGCGGCCCGCCGCTGGCCCTCATGAGGCATAGCCTGACCAAGCTGCTGGCAGCCT
CGGGCAGCAACTCCCCAACCCGCAGTGAGAGCCCGGAGCCGGCTGCAACTTGTTCGCTGC
CCTCTGACCTGACCCGGGCTGCAGCGGGGGAGGAGGAGACGGCGGCGGCNCGGATCTCCC
GGCCGCAAGCAGCAGTTTGGCGACGAAGGAGAGTTGGAAGCCGGGAGGGGGGGAAGCCCG
CGGCGGCGTGGCCGTGCGCGCGCCCTCCCCCGAGGAGATGGAGGAGGAGGCGATCGCCAG
CCTTCCGGGGGAAGAGACGGAAGGATATGGACTTTTTTTCTGGGCTGGA

Sequence 1786

ACGCGTCCGGCCAGGCAGTGATGGAATCCCGGGGTCNGCAGGAGAGAAGGGTGAACCAGG
TCTACCAGGAAGAGGATTCCCAGGGTTTCCAGGGGCCAAAGGAGACAAAGGTTCAAAGGG
TGAGGTGGGTTTCCCAGGATTAGCCGGGAGCCCAGGAATTCCTGGATCCAAAGGAGAGCA
AGGATTCATGGGTCCTCCGGGGCCCCAGGGACAGCCGGGGTTACCGGGATCCCCAGGCCA
TGCCACGGAGGGGCCCAAAGGAGACCGCGGACCTCAGGGCCAGCCTGGCCTGCCAGGACT
TCCGGGACCCATGGGGCCTCCAGGGCTTCCTGGGATTGATGGAGTTAAAGGTGACAAAGG
AAATCCAGGCTGGCCAGGAGCACCCGGTGTCCCAGGGCCCAAGGGAGACCCTGGATTCCA
GGGCATGCCTGGTATTGGTGGCTCTCCAGGAATCACAGGCTCTAAGGGTGATATGGGGCC
TCCAAGGAGTTCCAGGATTTCAAGGTCCAAAAGGTCTTCCTGGCCTCCAGGGAATTAAAG
GTGATCAAGGCGATCAAAGG

Sequence 1787

AAGCTATTGTCACACCTTTGAAACCAGTTGACAACACTTACTACAAAGAGGCAGAAAAAG
AAAATCTTGTGGAACAAGTCCATTCCGTCAAATGNTNGTTCTTCCCTGGAAGTTGAGGCA
GNCATATCAAGAAAAACTCCANCCCAGCCTCAGAGANAGATCTCTTAANGCTTTCTGCTC
AGAAGGATTTTGGAACAGAANAGAAAAGCATCATGGTAANAAATGAAAGCCAAGAGATGT
GCCCACTCCTGTTAATTCATTCGATTGAAAATTCATACCCCTTCTAAGAAAAAATGAAAA
GTTTTNTAAACAACAAAAAAGAAAGCCCNNNAGGCAAGGAAAGGGCANGTGCTTCATNAA
GNATACCTGNTGNAAAANAGGAAATGGCATCTTCCNCCAAGAAGAAAAAGCCCAANGGGT
TTGTACCATACCTGGTGCNCTTTGTATGCNCACCCTGCCAAAGGCATAAAGGTTTTCTAA
AAAAAGTTACCTTGAGNGAAGCCAANGAAGCCTGGGAGAAAANAGTANTGNAAAAAATGC
AAGCNAAAGAAGGNTGGGTGGGAAG

Sequence 1788

CCCCGCGTCCGAGCAAACATAAGAAACCTGAGTCATTTTGTCATTTAGAGTATTCTGATA
AAATCTCTTGAAAATACTGAAATCAAAAGGTTAATGATTTTTTGTTCATTCTGATTTGTC
ATTTTATTATCTGTCTAGCAGAAAAATCAAATGGGTAAATTAGCACTTTAGACAGCCAAC
ATAGTGAAACCCTCATCTCTACTAAAAGTTGGCAATTAAATCTGAATTTACAGATACAGA
TAACAGTTTATCAGAAATCATATTTTTCCTGAAGAAAATTTAAAATTAGGAGTTGTGGGC
CTGGTGCGGTGGCTTACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGAGCAGATCA
CTTGAGGTCAGGAGTTCGAGACCAGCATAGCCAACATAGTGAAACCCTCATCTCTACTAA
AAGTACAAAAATTAGCCAGGTGTGGTGGCCGTGTGCCTGTAGTCCCAGCTACTCGGGAGG

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CTGAGGCGGGAGAATCGTTTGGAACCCG
Sequence 1789
GACCACGCGTCCGGTCGGCGTCTGGGCCTCGTCCCCTTCTCTCTGTCTCCCTTGCCTCCC
CCATCACGTCCCCTGACACCGACACCCCATTGCTCCCACAGTCTCCCCAGNCTCCACTTT
GGTCCCCAGCGCTGTCTGCCCGAGGATTTGCCTGAAGGCTGCCCCCAACTCTGCACCCGC
CCCCCGAGGGCCACCGAGGACCATGACTAAGACAGATCCTGCCCCGATGGCCCCGCCACC
CCGAGGAGAGGAGGAAGAAGAGGAGGAGGAGGATGAACCCGTCCCCGAGGCCCCCAGCCC
CACCCAGGAGCGCCGGCAGAAGCCTGTTGTGCACCCCTCGGCACCTGCCCCCCTCCCTAA
GGACTACGCTTTCACCTTCTTCGATCCCAATGACCCGGCGTGCCAGGAGATCCTGTTTGA
CCCTCAGACCACCATCCCCGAGCTGTTTGCCATTGTGCGCCAGTGGGTGCCCCAA
Sequence 1790
CGGGGTCTTCTTGCTGTGAGGTCGCGTTCCCCAGTGTTACGGAGGGTCCTTGAGGCAAGG
AGTGAAAATTGGGTCTGGGGGTTAGTCCTGGGGTGGAGGTCTGGGCACGCCGGGTCGGAC
CCCCTNCATCTTCGGNTTTGCACACCCCGCTTTCCAGCGCGGAGTCCGCGGCGGGTAGGG
CNGGCGTCNCGTGCGTGACGTCATCCAGCGGCGCCTNGCGAGGCTNCAGTGGCCTTGACC
TCCCGCGGNGTGGGAGGCTGCGCGGCGATGCTGCANTTTCGTCCGGGCCGGGGCNGCGGG
CCTGGCTT
Sequence 1791
GGGTTATGAGAAGAACGCTCAGAGCAGAGCACCGAAAGTGGCCACTACCAGCATGAAGAG
CCCAACAATTCAAACTGGNAGAAGTGAGAAAAACAGAATGCAGCTTTCAAGGTTCGTTTC
AAGCAGTTGGCTTGTGGGACTCTGAGAGATGCTGCTGNCCATGACATGCGGGAATTATCA
TGATCAACTACCCAGCTTGGATTTCACCCAGTGGCCAACTAGCTTTGTGTGGGAGACGGC
AAGGGTTGGATTTTTCAAAAGAGTAAACCAGACCCGTGACCAAGGTGTNAACTAAGAAGT
GGAGTCATGCTTCACACGGNCNTATCNTGCTGGCAGCCATTCCTGGGTCTGGCTGTGGTG
TTAATCTTCATGGGATCC
Sequence 1792
GTGCTGGTTTNTCTTGCAGATGCTGCTGCTAGGGGTGGTGGGAAGCAGCCGTGGGACGCG
TGGCCGGNAGCGGNGGTGACAGCCTGGGANNNCGGGGGCTTNTCTTCCTTGTCCTCCTCC
TNTCCTGTCTATTCCCAGNGNGGGGCGTGGCTGACACTAAAGACTNTGTANNCATCAACC
CGAGTGCANNTTCNATGGAAAATGAAGGTTGCACGTTTTCAAAAAATACCTAATGGTGAA
AATGAGACAATGATTTGCTGTATTGNCANCCAAAAAAAGCAAAGGGNATTNCCANTCATT
GAAGNTGCAAGCATTCTNCAAGCTGATCTTCNAAATGGGTCTAAACAAAATGTNAAGNTA
AGTTCNTNAGGCNAGCCCTTTCATGGTTTNGAAATGAGNTTTCGNTTTTTATGTGAAAGN
TGGAGGCCNCCNTGTNGGGAAAGAAANGNGTTTNTTTTCNCCAGGTTTTNAAAA
Sequence 1793
GTCCGTTTTACAACCTAGTAATAATGTGGATAAATGTATCTACATGACACATGTCAAGAC
CAAAATAACTGTGAATGACACACCTTGCTGTAAATGAACTGTGCTAACCCTGACTGTGGG
CTTGAGAACAAAGATGAACTCTAGAACTCTAGCAGCCTAACTGCTGCTTCTCAAATAACT
GTGTGAACAGTGAGATATTACTGTTTGTTTCTAAAAATCCTACTGTGCCCAGTTTCCTTC
ACTACATGCCCTGCATTTTTTATTTAAATATTTAGCTGTAGCGCCATCAGATATGGATGC
CTTCTAACAATTGCTGTTTGTAAAATAAATCAGGATGGTAGAAAGTGATTATATGGAAAA
TTGGAACCTGGATGAGACCTTTTCGTTGAATTCTGAAGAGTAATGATGTGAAAATTGATA
CAGGGCAAGAGATGATTCTTTTGGGTTTTCTTCTACTTCATGTCCAGAAGAGTAAGAGGG
GAAAA
Sequence 1794
TNGTTGCCTGCAATACTACACTTTACAAACAATGTTAACACTGTGATTCCTTCATTGTTT
TAAGAAGTTAACCTAGGGCCGGGCATGGTGGCTCATACCTGTAATCCTAGCACTCTGGGA
GGCCGAGGCAGGAGGATCCCTTTAGCCCAGGAGTTAAAGACCAGCCTGGGCAACATAGGG
AGACCCTGTCTTTTTTTTGGGCAGCGTGGTGGGGGATAAATAAATAAAAGGAAAAAAAAC
TTAGCCTAGAATTAGAATTAATTTAATTGAATTCATCTAAAGATGTCTCTGGTGATTTTT
ATATGTTCCGCTATATAATTGATGCTTTATAGTTTTATCATAATCCAACAACTTCAGTTA

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TATTTAATTATTGGTAANGGAGTTTAAGACTNGAAAGACTAGAGTGCTTTCTAGTCCAAA
TAGAGGGTCANGTGAAACCAGCTTTTTGACATCAAGATTTTCATTTTGAGAAGGGANAAG
CCTGTGGGACTGGGCTTAAA

Sequence 1795

GTCCGGAGAAAACTGCAACTTGCCCAGNTCCTCTTCTCCACCAATAGATGCAGCATCCGC
AGAGCCCTATGGCTTCCGTGCCTCAGTGTTATTCGATACAATGCAACACCATCTAGCCTT
GAATAGAGATTTGTCCACACCTGGCCTGGAGAAGGACAGTGGAGGGAAGACACCTGGTGA
CTTTAGCTATGCCTATCAAAAGCCTGAGGAAACAACCAGGTCCCCAGATGAAGAAGATTA
TGACTTGAGTTATGAGAAGACCACCCGGACCTCAGATGTGGGTGGCTATTACTATAGAAA
ATAGAGAGAACCACAAAATCTCCAAGTGACAGTGGCTACTCCTATGAGACCATTGGGGAA
AACTACCAAGACCCCTGAAGGATGGTGACTATTCCTATGAA

Sequence 1796

CCGGCNTAGGCGGGGGGAACACGCCGCCTGCGCTCTCTTGGGACCCTAGATTTGGGGGAG
GAGGTAACGAGAGGCGGAGAGGGTGGCTCCTCAAATATACACCCCTCCTGTCCTCCGCCA
CCCCACCTTTGATTTCTCTTCCCTCAACCCAGCACTCCAGCCCCACCCCAGGGTCAATTT
TTGCCCCCTTCCATCTGAGCAGTGTTACCAGGCCCCAGGGGGACCGGAGGATCGGGGGCC
GGGTGGGGGGTCCCATGGAGTACTCCAGCACACGCAGGGGCTCCCTGCAGACAGGGGGGG
CCTTCGCCCTGGAAGCCTGGACGCCGAGATAGACTTTCTGAGCAGCACGCTGGCCGAGCT
GAATGGGGGGTCGGGGTCATGCCGTCACGGCGACCAGACCGACAGGCATATGAGCC

Sequence 1797

TCCGATTNNGCCNAGGGTTGCAGTTTGTAGACCCCTGATCTAGACCCTTAAGTAGCCTTG
TTTGTGCCTGAAGTTTACAGATGATCCCCAACTTATTTTTATTTTATTTTTTTGAGATGG
AGTCTCTCTCTGGAGCCCAGGTTGGAGTACAGTGGCAAGATCTTGGCTCACTGCAACCTC
CACATTCCGGGTTCAAGTAATTCTCCCGCCTCAGCTTCCTGAGTAGCTGGGATTACAGGC
GTGTGCCACCATGCCAGCTTTTTTGTATTTTGTATGTTAGCCATGTTGGCAAGGCTGGCC
TCAACCCCTGACCTCAAGTGATCTGCCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGG
AGTGAGCCACCATGCCCGAACCCCAACTTATGTTTGACTTACAATGTTTGGACTTTATGG
ATGGTGCAAATGTTATATGCATTTCAGNAGAAACTGGGCTTCAAAATTTTGAATTTTTGA
ATCTTTTTATTTT

Sequence 1798

TCCGCTGCCGAAGTCAGTTCCTTGTGGAGCCGGAGCTGGGCGCGGATTCGCCGAGGCACC
GAGGCACTCAGAGGAGGTGAGAGAGCGGCGGCAGACNACAGGGGACCCCGGGCCGGCGGC
CCAGAGCCGAGCCAAGCGTGCCCGCGTGTGTCCCTGCGTGTCCGCGAGGATGCGTGTTCG
CGGGTGTGTGCTGCGTTCACAGGTGTTTCTGCGGCAGGCGCCATGTCAGAACCGGCTGGG
GATGTCCGTCAGAACCCATGCGGCAGCAAGGCCTGCCGCCGCCTCTTCGGCCCAGTGGAC
AGCGAGCAGCTGAGCCGCGACTGTGATGCGCTAATGGCGGGCTGCATCCANGAGGCCCCG
TGAGCGATGGAACTTCGACTTTGTCACCGAGACACCACTGGGAGGGTGAACTTTTNCCTT
GGAANCGTTTTGCGGGGGCCTTGGCCTGCCCAAGCTNTACCTTTTCCAACGGGGCCCCGG
CGAG

Sequence 1799

GGCGNAGCTCGNCTTCCTCCNCGCCCAAGTTCCGGCGCCGCTCTTGCGGGAGCGTGCCGC
ATCACCCCGGGGGCCCCTACGCGAGGATCTCCGGGGCCGTTGGCAGCAGCCTG

Sequence 1800

TCACCCCGCGTCCGGGCGGGCGTGGGGCGGTGGGAGGTAGTGAAGAAGGGTCGGCGGCCT
GGGGTCGGCGCCGGCGCCGGCGGCCGAGGAGGCGGTAGGAACCGCAGGGCGCTCGGGGAA
GCAAACNGAGTGTGGAAATACNACCTGACCCCTGCAATCCAGACCACAAGCACCCTTTAT
NAGCGGNGCTTTNAGAATATCATNAAGNGGNTTTAATAAGGAGCAGGTCCCACCCCCTGC
TGTGGAA

Sequence 1801

GTCGACCCACGCGTCCGGGAGCAGAGTCGACTGGGAGCGACCGAGCGGGCCGCCGCCGCC
GCCATGAACCCCGAATATGACTACCTGTTTAAGCTGCTTTTGATTGGCGACTCAGGCGTG

TABLE 1
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GGCAAGTCATGCCTGCTCCTGCGGTTTGCTGATGACACGTACACAGAGAGCTACATCAGC
ACCATCGGGGTGGACTTCAAGATCCGAACCATCGAGCTGGATGGCAAAACTATCAAACTT
CAGATCTGGGACACAGCGGGCCAGGAACGGTTCCGGACCATCACTTCCAGCTACTACCGG
GGGGCTCATGGCATCATCGTGGTGTATGACGTCACTGACCAGGAATCCTACGCCAACGTG
AAAGCAGTGGCTGCAGGAGATTGACCGCTATGCCAGCCGAGAACGTCAATAAAGCTCCTG
GTGGGGCAACAAAGAGCGGACCCTCACCACCAAAGAAGGTNNGTGGGACCAACACCACAA
GCCAAGGGAGGTTTGGCAAGACTTCTTTTGGGGCATTC

Sequence 1802

NCCCCGCGTCCGCGGACGCGTGGGCGGAGCTGCTGTGCAGTGGAACGCGCTGGGCCGCGG
GCAGCGTCGCCTCACGCGGAGCAGAGCTGAGCTGAAGCGGGACCCGGAGCCCGAGCAGCC
GCCGCCATGGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGTCATCCTGCCGGAA
ATTCAGAAGCCAGAGAGGAAGATTCAGTTTAAGGAGAAAGTGCTGTGGACCGCTATCACC
CTCTTTATCTTCTTAGTGTGCTGCCAGATTCCCCTGTTTGGGATCATGTCTTCAGATTCA
GCTGACCCTTTCTATTGGATGAGAGTGATTCTAGCCTCTAACAGAGGCACATTGATGGAG
CTAGGGATCTCTCCTATTGTCACGTCTGGCCTTATAATGCAACTCTTGGCTGGCGCCAAG
ATAATTGAAGTTGGTGACACCCCAAAAGACCGAGCTCTTCTTCAACGGAGCCCAAAAGTT
ATTTGGCATGATCA

Sequence 1803

CGCGTCCGCGCTTCTGTTACGGCCAGTGCAACTCTTTCTACATCCCCAGGCACATCCGGA
AGGAGGAAGGTTCCTTTCAGTCCTGCTCCTTCTGCAAGCCCAAGAAATTCACTACCATGA
TGGTCACACTCAACTGCCCTGAACTACAGCCACCTACCAAGAAGAAGAGAGTCACACGTG
TGAAGCAGTGTCGTTGCATATCCATCGATTTGGATTAAGCCAAATCCAGGTGCACCCAGC
ATGTCCTAGGAATGCAGCCCCAGGAAGTCCCAGACCTAAAACAACCAGATTCTTACTTGG
CTTAAACCTAGAGGCCAGAAGAACCCCCAGCTGCCTCCTGGCAGGAGCCTGCTTGTGCCG
TAGTTCGTGTGCATGAAGTGTGGATGGGTGCCTGTGGGGGTGGTTTTTAGGACACCAGAA
GAAAACACAGTCTCTTGCTAGAGAGCACTCCCTATTTTGTAAACATATCTGCTTTAAGGG
GGATGTACCAGAAACCCACCTTACCCC

Sequence 1804

CCCGCGTCCGTAGATTAAATTATGCAAGTTGCAAGAATGTAGTAACTCTGATCAGCTACA
AGGAAAGGAGGAAAGAGTAAATGAAGAAAGTCATCTAACTGAAAAGGAATATATAGAACA
TTGTAACACCCCTACAACTGATTCTGATTCATCTATAGCAGTTAAAGCACTACAAATAGA
TAGCTTTGGTTTAGTTACATGCTTTCAACAAGAGTCTCTTGATGTTTCTCAAATGATACT
TGGAAAATCTCAGCAACCTGAGTCAAAAATGCAATCTGAATTTATAAAAGAAAAAAGTGC
TACTTGTTCAAATGAGGAAAAAGGTAACTTAAACGAGGTCAGTAATAACTGAAGAGAAAG
AAACAGATGGGAGATCACCCTATCTTCATTACTGAACCAAAACTACCNGTTCACAATATA
CCTGGATTCGACAGCATAAAAGAAACC

Sequence 1805

GCGTCCGGCAGCTGAAAGGGGATTTGGGCCCGGAAGATCCGAGTCCATCCGCGGCGGGGA
GAGGGCAAGCGGGACCGGTAGGGGCCGGAGCAGCGGCGGCGGCGCTCGGACTGTCCCATC
CGCCCCGTATTGAGGCGCTGGGAGCGGCGGGGCGACAGGAAAGCGATGGTGAAAGCGGGG
CCGTGAGGGGGGCGGAGCCGGGAGCCGGACCCGCAGTAGCGGCAGCAGCGGCGCCGCCTC
CCAGAGTTCAGACCCAGGAAGCGGCCGGGAGGGCAGGAGCGAATCGGGCCGCCGCCGCCA
TGGAGCTGAGAGTCGGGAACAGGTACCCGGCTGGGCCGGAAGATCGGCAGCGGCTC

Sequence 1806

GTCGCCCCGCGTCCGCACAGTTGATTCTGAATTTTTAAGGCTTTCCTAATAGGCTGATCA
CAGAGAATAATCCATTTTGAAGGTATAAAACTGCACTGTATGTCTGTCACTTGTAGCTGA
ACTGATTCACATTTTGACAAAAGAGAGAAAATACAAAAATGAGTTTTGCAAATGTAATAA
CTTTTTCTGCATATAGAACTAAATAATTGAAAAATATGGGCTATAGTTCTCAAAGGTAGA
TAGTAAAATCACTGGCTTTTTCCAGCTGTATGTTTTTCCACTGTGCGTGTACACACACAC
TGGAAAATAATTAGGCTGATTTTGCAGGTCTTCATTGTTAGAGATTCTGAAGTATTTACT
GTCAATTCATAGGTTTCAGTTTATTTAGGAAATTAGTGTTTGACAGCTTTTTTTAAATTA

TABLE 1
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TTTCACTGAAGCTGAGATTATTAGTGATCAAAGTTAAAATTTCAATATTTAATTTCTCTA
TATATTATTAATATTAAAATGGTTT
Sequence 1807
GTCGACCCCGCGTCCGGTACTACATCCCCTGAAGAAACATGTGCCCAGGTGATTCGTGAA
GCTAAGAGAACAGCACCAAGTATAGTGTATGTTCCTCATATCCACGTGTGGTGGGAAATA
GTTGGACCGACACTTAAAGCCACATTTACCACATTATTACAGAATATTCCTTCATTTGCT
CCAGTTTTACTACTTGCAACTTCTGACAAACCCCATTCCGCTTTGCCAGAAGAGGTGCAA
GAATTGTTTATCCGTGATTATGGAGAGATTTTTAATGTCCAGTTACCGGATAAAGAAGAA
CGGACAAAATTTTTTGAAGATTTAATTCTAAAACAAGCTGCTAAGCCTCCTATATCAAAA
AAGAAAGCAGTTTTGCAGGCTTTGGGAGGTACTCCCAGTAGCACCACCACCTG
Sequence 1808
CCCCGCGTCCGGCCTTTAAAAGAAGACTTGAATTCCTATGGAACAATAAAGACACAGCAG
AAAACAGGGATTCTCCTGTTTCAGAGGAAATAAAAATGACCTGTCAACAATTTATCCATT
ATCACCGTGACCTCTGTATCCGAAACATTGTCAAAGAAAGAAGGTGTGGTGCAAAGACTT
CTGCTGGAACTTTCTGTGGCTGTGACCTGGTGAGCTGGCTAATTGAAGTCGGCCTTGCCT
CCGACCGTGGTGAAGCTGTGATATACGGAGACAGGCTGGTACAAGGGGGAGTCATCCAAC
ATATTACCAACGAGTATGAATTCCGGGATGAGTACTTGTTTTACAGATTTCTTCAAAAGA
GTCCTGAACAGAGTCCTCCTGCTATTAATGCAAACACTCTCCAACAGGAAAGATATAAAG
AAATTGAGCATTCATCCCCACCCTCACATTCCCCTAAGACCTAAATTATGCAGGGGAGAA
CCCTACATGGAATCAT
Sequence 1809
CGCGTCCGCTGGAGTGCTGCTGAGGAGCGANGGGCCCATCTGGGGTCTCTGGAAGTCGGT
GCCCAGGCCTGAAGGATAGCCCCCCTTGCGCTTCCCTGGGCTGCGGCCGGCCTTCTCAGA
ACGAAGGGCAGTCCTTCCACCCCGCGGCGCAGGTGACCGCTGCCATGGCTTTTCCCCATC
GGCCGGACGCCCCTGAGCTGCCTGACTTCTCCATGCTGAAGAGGCTGGCTCGAGACCAGC
TCATCTATCTGCTGGAGCAGCTTCCTGGAAAAAAGGATTTATTCATTGAGGCAGATCTCA
TGAGCCCTTTGGATCGAATTGCCAATGTCTCCATCCTGAAGCAACACGAAGTAGACAAGC
TATACAAGGTGGAGAACAAGCCAGCCCTCAGCTCCAATGAACAATTGTGCTTCTTGGTCA
GACCCCGCATCAAGAATATGCGATACATTGCCAGTCTTGTCAATGCTGACAAATTGGCTG
GCCGAA
Sequence 1810
CGCGTCCGGTGCATCTGAGGACTGGTGGGAAGGCANGGCACAACGGGATTGACGGGCTGG
TGCCTCACCAGTATATAGTGGTGCAGGATATGGATGATACGTTTTCAGACACTCTGAGCC
AAAAAGCCGACAGTGAGGCCAGCAGTGGGCCAGTCACGGAAGACAAGTCCTCATCCAAGG
ACATGAACTCCCCGACAGACCGTCATCCTGACGGCTATTTAGCCAGGCAACGAAAAAGAG
GAGAGCCACCCCCTCCAGTAAGGCGTCCTGGCAGGACCAGTGAT
Sequence 1811
TCAGGAGTCGACCCCGCGTCCGGAAGGCCGATGCTGTGGGGGTGGGCGTGGAGAGAATTC
TTCTGTGGGTCCTCTGGTGTTGAGTGGTCGGCTTGGTGTGGTGTGCGGAGGAGCTCCAGG
CCCGTCGGCGCGGAGTGGTCTCACGTGTGAAACATGGCTACAGATTGGCTGGGAAGTATT
GTGTCCATCAATTGTGGAGATAGCTTGGGTGTCTATCAGGGAAGAGTGTCAGCTGTGGAT
CAGGTCAGCCAGACCATTTCTCTCACCCGGCCTTTCCATAATGGAGTGAAGTGTCTTGTT
CCAGAAGTCACCTTCAGGGCAGGTGACATTACGGAGTTAAAAATTCTGGAGATACCAGGA
CCTGGAGACAACCAACATTTTGGAGACCTTCATCAAACAGAATTAGGCCCCTCTGGTGCT
GGCTGCCAAGTGGGCATCAATCAGAATGGCACAGGCAAGTTTGTCAAG
Sequence 1812
CCGCGTCCGCCCAGTCCNAGTGCTGGCTTTCCCTGTATCTGCCTCTGCCAGGCAACACTT
ATCATGGCTCCCAATCAGCAGGAGCCTCCATGCTCCACTTTGAACAGCCTCTATGCTCCA
GCAATGGGGCATTTGTGAAGAGTGACTTGATTAACTTTTCTGACCATGGGTATAATACAG
TTGCTTCAGAGGGCAGTGGTTCTGGGTGTGATTTTTACACTGTAACATTGTATACAGTGT
CATGGATAATTACTATTTTTTTCTGGTCATTAACACTCACCTACTCTAGTACTAGGATTT

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CAGACCAAGGTCCTCATGACGCCTGGATATTTTAGTATCTATATCCAATAATCTTTTCTC
TCCTACTGAATATCCAGGCAAAGATGAAATCGTTTTCTTTAAAACTGTCAAATTCTGTAA
AACTCAGGAGCCAGTTCAAGGGAACAAGCATCTTCACAATAGATGGAATCAAGAGTTAAA
TGTTATAGTGGCAAGCTTGTCTACTGGGCAACAGAC

Sequence 1813

CGCGTCCGCCGCCGCGTCCGCTCCCGGTCCCTGGCCCCTCAGCGGCATGGCGTGCGGGGC
GACGCTGAAGCGGCCCATGGAGTTCGAGGCGGCGCTGCTGAGCCCCGGCTCCCCGAAGCG
GCGGCGCTGCGCCCCTCTGCCCGGCCCCACTCCGGGCCTCAGGCCCCCGGACGCCGAGCC
GCCGCCGCCGTTTCAGACGCAGACCCCACCGCAGAGTCTGCAGCAGCCCGCCCCGCCCGG
CAGCGAGCGGCGCCTTCCAACTCCGGAGCAAATTTTTCAGAACATAAAACAAGAATATAG
TCGTTATCAAGAGGTGGAGACATTTAGAAGTTGTTCTTAATCAGAGTGAAGGCTTGTGCT
TCGGGAAAGTCAACCTCACTCCTCAGCACTCACAGCACCTAGCTCTTCCAGGTTCCTCAT
GGATGAAGAAGGACCAGCCCACATTTACC

Sequence 1814

CGCGTCCGTTGAAGAATAATATTGTATGTGCATTTTATCCATTAATGTTTCATACTTTCT
GAGAGTATAATACCCTTTTAAAAGATATTTGGTATACCAATACTTTTCCTGGATTGAAAA
CTTTTTTTAAACTTTTTAAAATTTGGGCCACTCTGTATGCATATGTTTGGTCTTGTTAAA
GAGGAAGAAAGGATGTGTGTTATACTGTACCTGTGAATGTTGATACAGTTACAATTTATT
TGACAAGGTTGTAATTCTAGAATATGCTTAATAAAATGAAAACTGGCCATGACTACAGCC
AGAACTGTTATGAGATTAACATTTCTATTGAGAAGCTTTTGAGTAAAGTACTGTATTTGT
TCATGAAGATGACTGAGATGGTAACACTTTCGTGTAGCTTAAGGAAATGGGGCAGAATTT
CGTAAATGCCTGTTGTGCAGATGTGTTTTCCCTGAATGCTTTCGTATTAGTGGCGACCAG
T

Sequence 1815

GTCGCCCCGCGTCCGATTTAAACTGGGTCTTTATAAAAGTAAAATGGCCAACATTTAATT
ATTTTGCAAAGCAACCTAAGAGCTAAAGATGTAATTTTTCTTGCNATTGTAAATCTTTTG
TGTCTCCTGAAGACTTCCCTTAAAATTAGCTCTGAGTGAAAAATCAAAAGAGACAAANGA
CNTNTTCGANTCCANNTTTAAGGCTGGGGGAAANTGGGTTTTTTAGCNCAACCNTTNCAA
AAGTTTTNTTTNGGGGATTCATAACANCNCCACCNAATTGNTTTTTTGTTGCCANACATT
CATTTCAATACTAGTTATATTNANNAGGAGTNGGTAGAGAGGAAACATTTGACTTATCTG
GNAAAAGCAAACTTGTACTTAAGAATAAGAATAACATGGNCCATT

Sequence 1816

TCGACCCCGCGTCCGCTCTGCTCCTTGTCTCCNTCTNCCTTTTTCTGTCTTTGCCGGGTC
TCTGGGTCTCTGACCCCCATCCGGCCCTCATGGCTTTGGGTCNGGAGCTNTTGAAGCAAT
GTTCATCAT

Sequence 1817

CCACGCGTCCGGGGGAGCCGGACGCCAGAGTCCCCTCTCCACGCCGTGCAGCTGCGCTGG
GGCCCCCGGCGCCGACCCCCGCTGCTGCCGCTGCTGTTGCTGCTGCTGCCGCCGCCACCC
AGGGTCGGGGGCTTCAACTTAGACGCGGAGGCCCCAGCAGTACTCTCGGGGCCCCCGGGC
TCCTTCTTCGGATTCTCAGTGGAGTTTTACCGGCCGGGAACAGACTGGGGTCAGTGTGCT
GGTGGGAGCACCCAAGGCTAATACCAGCCAGCCAGGAGTGCTGCAGGGTGGTGCTGTCTA
CCTCTGTCCTTTGGGGGTGCCAGCCCCACACAGTGCACCCCCATTGAATTTGACAGCAAA
GGCTCTCGGCTCCTGGAGTCCTTACTGTCCAGCTCAGAGGGAGAGGAGCCTGTGGAGTAC
AAGTCTTTGCAAGTGGTTTCGGGGCCAACAGTTCGAGC

Sequence 1818

TCGACCCACGCGTCCGGTGAAACACAAAACCAAGGAGTACATTAAGAAGTACATGCAGAA
GTTTGGGGCTGTTTACAAACCCAAAGAGGACACTGAATTAGAGNGACTGTTGGGCCAGGG
TGGGAGGATGGGTGGTCAGGTAANGACAAGACTCTAGGGNAGAAGGAAANCCTGTGGGCC
TTTNTGTCCCACCCCTGTCAGCACTGGTGCTACTGATTGATACATNACCCTGGGGGGNAA
TTNAACCCTGCCAGNATGTCAACNTGGAANGGCCACAAAGAAGTGGAACCTCCCATCTAC
AAAANNGAGTTTACNCTTANATTTTGTAGAAGCCTNGTTTGGCCATTGTTGCNNNTAGAN

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AGTCCATNNANTAGGNGGCAAGGGGGCCTNTANTAAAAATGAACCCCTGGNACAGAACCT
TGNACTTNCACATTCTTTAAAANCCCTGGGAGATGNTTTGCTTTCTNTGGGNCGNGTTGN
TTTGNTTCAAGCTGCTACNAAGTAACTCTCAATGGCCGGCAATTATCCCCAACTCNCACN
AAACTCCNTTTTTAACCCCTGGCANGGAATCCTTGCAAATTTAATAATTTTTTAAATGGG

Sequence 1819
GTCCGGCTTTAGTGAATTCTTAATAGATNGTATATATAAAAGTACATTTTAATAGAAAGC
CAGGGTTTTAAGGAATTTCACATGTATAAGGTGGCTCCATAGCTTTATTTGTAAGTAGGC
TGGATAAATGGTGCTTAAATGGTAATGTACTCCACTTCTTCCTATTGGAAGATTAACATT
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CAAATTCATAACTGGAAAGCAAAGAGAAGAACAAGTATGATTTGGATGATAAAGCATTGT
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CAANTGGGGGTTTTTAGGTAGGTCAGTGGCCCTAAGTTCCTAAAGCCCACAGATTAGGGA
TCTGTTAAACTGAATGGTCTGTTGGAAAGGTTTTGTTTTAACTGCTTGGGAGGCTTTCCT
TTTAAG
Sequence 1820
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ATTCATTGTATAAAAATAAAGAGATTTTCCTGAGAGNACTGATTTCAAATGCTTCTGATG
CTTTAGATAAGATAAGGCTAATATCACTGGACTGATGAAAAATTGCTCTTTNTTGGAAAT
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CCACCAGGGAAAGATGGCTCAGTTCAAACTTTTTTGGAATNTGGATTGGGCCCAGTTATG
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CTTCCAAATG
Sequence 1821
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GTAATTTTTAAAAAAATCCATCTATCTAGGATATGTTGGATACAAAGTCTGCTTTTGCTA
TTCTTTTTGCTTAAATACTCCTATCATTTTCTGAATTACTTGGTATTTAGAACTCCTAGC
ACCACGGGGAAGAATAGAGGTATCATCAAACGTGGCAAATTTTCTTTCAGGAATAATAAA
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TTCTCATCACAGGAATGTAGCCCAGGCCAATTTATAACTAAATCTCTATTTTGTTCGGAT
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TGATTAGCTCAATTGCTTCTGGGAGTTTTAATCCTGTGGATATGTCAT
Sequence 1822
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GTAACCAGTGGGAAAACTTTAGAGGGTACTTAAACCCCAGAAAATTCTGAAACCGGGCTC
TTGAGCCGCTATCCTCGGGCCTGCTCCCACCCTGTGGAGTGCACTTTCGTTTTCAATAAA
TCTCTGCTTTTGTTGCTTCATTCTTTCCTTGCTTTGTTTGTGTGTTTGTCCAGTTCTTTG
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GAGAAAAGAATTTCTGCTTGGACACTGCATAGCTGCTGGGAAAATGAACATCAGTGTTGA
TTTGGAAACGAATTATGCCGAGNTTGGTTCTAGATGTGGGAAGAGTCACTCTTGGAGAGA
ACAGTANGAAAAAAATGAAGGATTGTAAACTGAGAAAAAAGCAGATGAAAGTGTCTCACG
AGCTATGTGTGCTCTGCTCAATTCTGGG
Sequence 1823
CCCCGCGTCCGGTCCTTTGGCACTGTCATNTGTGTCCCTCGAGTGAGCNTCACCAGAGCT
GCAGTAANNGNGCACCTACTACNGGCTCTGNGCTGAGTCCTTCCAGTGNGCCTCTCACTG
AATNCTCACCCCACTGNCATGAGGTTTNCCCCATTTGACTGATGAGGGTGNAGAGCCAGG

TABLE 1
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GAGCCTTGNTCACTGGTTCATTGANTACATTTACAAATATTATTNACAGAGTGGGAGAAG
AGCCGTATAGGGNCTTAATGCCATGGTNGGGACTTTGGAATTTAATTCAAGTGATGTGGG
AGTACCTGCCAGATGGATGGAGGGTGAAATAATGCTTAAGCCCTCAGCC
Sequence 1824
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GGCCGGTAGAGCNCAGCNTGAAGCAGGNTNTGAGGAGCTGGNTCCCTGNGNATNGGNNGA
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TTTNAA
Sequence 1825
CGCGTCCGGCTGAAGGCTCCCCTGGGNTTNCTGGCCTCCTGGGGCAGAANGGGAGAGAAA
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GGGCCCCCAGGGCCAAAGGGAGAAGCAGGTGTCCGATGGCCAGGTTGGCCCCCCAGGGCA
GCCAGGAGACAAGGGGGAGCGTGGAGCAGCTGGAGAACAGGGACCAGATGGCCCCAAGGG
CTCCAAGGGAGAACCAGGGAAAGGAGAGATGGTGGATTACAATGGAAACATCAATGAGGC
TCTCCAGGAGATCCGGACGCTGGCCTTGATGGGGCCTCCTGGTCTTCCTGGGCAAATTGG
CCCACCTGGAGCTCCAGGGATTNCAGGCCAGAAGGGGGAGATTTGACTGCCANGGCCTTT
CAGGACACGATGGGGAAA
Sequence 1826
GTCGACCACGCGTCCGGTTTTTTTTTTTTTTGAGACAGAGTTTTGCTCTTGTTGCCCAGG
CTGGAGTGTGATGGCTCGATCTTGGCTCACCACAACCTCTGCCTCCTGGGTTCAAGCAAT
TCTCCTGCCTCAGCCTCTTGAGTAGCTTGGTTTATAGGCGCATGCCACCATGCCTGGCTA
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CAACCTCAGGTGATCTGCCCTCCTTGGCCTCCCAGAGTGCTGGGATTACAGGTGTGAGCC
ACTGTGCCGGGCCCGTCCCCTCCTTTTTTAGGCCTGAATACAAAGTAGAAGATCACTTTC
CTTCACTGTGCTGAGAATTTCTAGATACTACAGTTCTTACTCCTCTCTTCCCTTTGTTAT
TCAAGTGTGACCAGGATGGCGGGAGGGGGATCTGTGTCACTGTAGGTACTGTGCCCAGGA
AGGC
Sequence 1827
CGACCNCGCGTCCGGCACTCTGTTCTTCCGCCGCTCCGCCGTCGCGTTTCTCTGCCGGTG
AGCGCCCCGCCCCGGGGCCTGAGCTGGACGTCGCAGGCCTGCGCCCCCCGACCCCGGCTG
GCCCCGCTTCCAGCTGCCGAGGCCTCGTCGCGCCTTCCCCGGGAACAAAAGGCGGGGTCG
CAATGGAAGAAGAGATCGCCGCGCTGGTCATTGACAATGGCTCCGGCATGTGCAAAGCTG
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ACCAGGGCGTCATGGTGGGCATGGNCCAGAAGGACTCCTACGTGGGCGAC
Sequence 1828
CNCCACGCGTCCGGACCGGGGAAGACGCCTCTTCGCCGCCTCCGAAAACCGAGGCAGCGA
GCGACCCCCAGCATCCCGCGGCCTCCGAAGGGGCCGACGCCGCCGCCGCCTCGCCGCCAC
TGCTGCGCTGCCTAGTGCTCACCGGCTTTGGAGGCTACGACAAGGTGAAGCTGCAGAGCC
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GGCTCAACTTCGCAGACCTCATGGCTAGGCAGGGGCTGTACGACCGTCTCCCGCCGCTGC
CTGTCACTCCGGGCATTGGAGGGCGCCGGGGTGTTNTGATCCGCAGTGGGCGAGGGGAGT
CAGCGACCGCAAGGCAGGAGACCGGNTGATGGTGTTGAAC
Sequence 1829
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GATTTTCACAAAGATATATTGCTGGTAATATATTTTATTGTGTAGTCTTATAATTTACTT
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GCTGTGATGACCAATTTTGTGAATAAAATGTTTTTATGTATTTCAGATTATTCCCTTAGG

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ATAGTCTCTCAGTGCCAAGTTGTCAAAAACATCTCTATTTTGCTTATCTTCCTGCTCTCT
TGCTGCCTTAGGGGGTAGTAAACTGAAACATAAAGTAAACATGCATACAAATAAAAAACA
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AATTCTTGCCCGGCGCGGTGGGCTCACGCCCTGTAATCCCAGCA

Sequence 1830

CGCGTCCGGTAAACCAGCCGGAGCGGCGCGGNAGCGGCAGGACCGCCGTGGCGCCTAGAG
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GTCTGGAAAGNCTGCTTTGACTGTACCAATTTTGTTCAAGGAATTTTTGTAGAAAAATAC
NGATCCTACCGATAGGAAGATTCTTATAGAAAGCAAGTTTGAAAGTAAGATGCACAACCA
GTGTATGCTTTGAAAAATCTTTGGATACCTGCCAGGNAACCGGGAGCCAATTTACANCCA
ATGGAGGGGGATTTATAACATGNAAAAAAATGGGACAAAGGGATTTTGCATTTAGTTTAA
TTNCAATCACCAGACACAAGTTCCCACCAATTTTAAAACGAATTTTACCAAAGAACCCTG
GAGGAGNAACCAAGAANTTCTTTNNGAAGGTTTAAAAAGGAACCACCTTGAATTGGAATG
GTTTCCCAAATG

Sequence 1831

CCAATTATAGACTATATAGGGGGAAGAGCACTGGATTTGGAGTCAAGAAACCTGGACACT
TGGCTCCACACTTCCTTAGCTGGGTAACTTTGGGCAAACCGCTTGGTCTCTCAAGCCTAA
GGTTCTTCAGCTATAAAATGGGAATAATACTTCACTAACTACCTCACAGAGTTGTGGTAA
GAATATAATCAGATAACTGGATAAAAACACTATATAAACTGGAAAGCGCCGTACAAATGT
GAGAGATCAGTTTTATTATCAAATCACTGTTTTCCACTGCCTCTTGAATCGGCTTTATTC
TAACCAACCATTACATCTTTCTCATCTTTTGGAGTATGGGTAATTGAGGCTTGGGTGTGT
CATCAGGGACTGGGAAGTTATTTCAGCTCCCATGTAAAAGGTGGGAGAGGTGGTTTGTGG
GNGCAG

Sequence 1832

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AACTCCTCCCCCACCATACAGTGCCTTCCAGCTACAGCAGCAGCAGCTGCTGCCTCCACA
GTGTGGCCCTGCAGGTGGCAGTCCCCCGGGCATCGATCCCACCAGGGGATCCCAGGGGGC
ACAGAGCAGCCCCTTGTCTGAGCCCAGCAGAAGCAGCACAAGACCCCCAAGCATCGCTGA
CCCTGATCCCTCTGACCTACCAGTTGACCGAGCAGCCACCAAAGCCCCAGGGATGGAGCC
CAGTGGCTCTGTGGCTGGCCTGGGGGAGCTGGACCCGGGGGCCTTCCTGGACAAAGATGC
AGAAATGTAGGGAGGAGCTGCT

Sequence 1833

GCCNCGCGTCCGTGAAACGCAAAAGAAGGAGCTCGGAATATAAGAACGTCAGAACGAGTG
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AATACAATGTTGGGCAGGATGTTTGGATCTGGCCGAGAACATAACTTTACACGACCCAAT
GAGAAAGGAGAGTATGAGGTGGCAGAGGGAATTGGTTCCACTGTGTTTCGAGCGATTCTG
GATTACTATAAAACAGGAATAATCCGTTGTCCTGATGGCATATCTATTCCTGAACTGAGA
GAAGCATGTGACTATCTTTGTATCTCTTTTGAATATAGCACTATTAAATGTAGAGATCTC
AGTGCCCTAATGCATGAGTTATCAAATGATGGTGCTCGTAGACAATTTGAATTTTATCTG
GAAGAAATGATCCTCCCTCTCATGGTAGCTAGTGCCCAGAGTGGGGAACGG

Sequence 1834

CCNCGCGTCCGCTTTAACCACCATAAGAAATCAGAAAACGCAAGATAAAGTTCAGCACAC
AGTATGTATGGATTGCAGTAGCTACAGTACATACTGTTATCGCTGTGATGATTTTGTGGT
TAATGACACCAAGCTGGGACTGGTACAGAAAGTCAGAGAACACTTACAGAACTTGGAAAA
CTCAGCTTTCACAGCTGACAGGCATAAGAAAAGAAAACTTTTGGAAAACTCAACACTAAA
CAGCAAGTTATTAAAAGTAAATGGAAGCACCACTGCCATTTGTGCCACAGGCCTTCGGAA
TTTGGGGAACACATGTTTCATGAATGCCATCCTTCAGTCACTCAGTAACATTGAGCAGTT
TTGGCTGTTATTTCAAAGAACTGCCCCGCCGTGGAGTTAAGGAATGGGAAAACAGCAGGA
AGGCGGACATACCACACCAGGAGCCAAGGGGATAACAATGTGTCTTTGGTAGAAAG

Sequence 1835

TABLE 1

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TTACTGGGCACCCANCTCCATGTGCANGACTTTTCCCAACACAGCCTTGGCCAGTCAGAT
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GGGCTGGGGCTCATAANGGACTCAAANGAGGCACCTTGCCC

Sequence 1836

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TCCCGGGGAAGTCATTCATCTGAATGTGGGAGGCAAGAGATTCAGTACCTCTCGCCAGAC
TCTCACCTGGATCCCAGACTCCTTCTTCTCCAGTCTTCTGAGCGGACGCATCTCGACGCT
GAAAGATGAGACCGGAGCAATCTTCATCGACAGGGACCCTACAGTCTTCGCCCCCATCCT
CAACTTCCTGCGCACCAAAGAGTTGGATCCCAGGGGTGTCCACGGTTCCAGCCTCCTCCA
TGAAGCCCAGTTCTATGGGCTCACTCCTCTGGTTCGTCGCCTGCAGCTTCGAGAGGAGTT
GGATCGATCTTCTTGTGGAAACGTCCTCTTCAATGGTTACCTGCCGCCACCAGTGTTCCC
AGTGAAGCGGCGGAACCGGCACAGCCTAGTGGGGCCTCAGCAGCTAGGAGGACGGNCAGC
CCCTGTCCGACGGAGCAACACGATGCCCCC

Sequence 1837

CGCGTCCGTTCTAGATCGCGAGCGGCCGCCCTTTTTTTTTTTTTTTATCTTTCTGTTTTTC
CACTAAAAGCTCCGTTTTTCCATCTTCCCATTACTCTCCCTTTCCTGTGNACACTCCTGA
AGACAGGCATCCTCATAAGGTGTTCTGAATTAACTTTAGGGNGTTCTCCAGGTACTTTGC
ATCTTTTTATATTTCTTGTAAATTGNTAATTTCTAAGCTCCATGATTAAAGAGAATTCAC
CACTAAAAAAAAAAAAAAAGG

Sequence 1838

CGCGTCCGGGCTGGCGAGCGCCGNCGCCGGCGGAGACCGACNCTNGGCCAGAGCCNGCCC
GCGGCGCCCGGGCCTGGCCGGCTGCTTCCCGCCTCAGCNNGGCGCCCCNGCCTCCGTGCG
CCGCAGACTTTGCCTAGGCGGGCNGAAGCTGAACAAGAGGTCCCTCGGCCCTGCACGGTC
CGGCCGCGGTCCGGAGCCGANGCGCATGAGATTCCCCAGGAAGCCATCACACTCCTTCCC
ACTGTGGTTTNGGGAGCATGAAGGCGTTG

Sequence 1839

GCCCCGCGTCCGTTTTATTTTGCACTTTTATGGGTGACAGTTTTTACGCATAACCTTTGA
TAAAATACACTCAAGTGACTTGGACTTAGATGCTTATCCTTACGTCCTTGGTACCTTTTT
TGTATTAACAAACACTGCAATTTATAGATTACATTTGTAGGAAGTTATGCTTTTTTCTGG
TTTTTGTTTTACTTTCAACCTAGGTTATAAGACTGTTATTCTATAGCTCCAACTTAAGGT
GCCTTTTTAATTCCCTACAGTTTTATGGGTGTTATCAGTGCTGGAGAATCATGTAGTTAA
TCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCCAGCCTACATTCACTTCTAAA
GTCTATGTAATGGTGGTCATTTTTTCCCTTTTAGAATACATTAAATGGTTGATTTGGGGA
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GCAAAAGTGGAACATACAAAATAAGACTAAATTTTTNAGAGGTAACTCAAGTAATTTC

Sequence 1840

GTCCGGCCAGCTGATGCCGGGAGCTAACTACCGCGCCGGGGCCGGGGCCGGGGCCGGGGC
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CGTGGCCCGCGACCTATTGAGGGGCACATCTAACATGTCATTTGAGGAGCTGTTGGAATT
GCAGAGCCAAGTGGGGACTAANACNTACAAACAATTGGTAGCTGGAAATAGTCCTAAGAA
ACAAGCTTCTAGACCACCTATCCAAAATGCATGTGTTGCANATAAGCACAGGCCTCTGGA
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AGC

Sequence 1841

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AGGAGTATCAGGTAGGGCNAGCTTTACTCTGTTTGCAAGAAGCTTTGTAATGAATTGAGA
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AAAAGGGACAGTTTACGCACAAAATCTATCACCTAAAGAGCAAAGTTGCCTGCATTCTGT
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TACCCCTACTGTAGNAACAATTNTNAACCGAAATGGAATATATTGAAANGAATGATTTTC

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CTTCAATTNAAAANTCCGAAAACAATNGGCANCCAAAACCCATNACTTTGGGGAACCATN
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CTTG

Sequence 1842

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ACAGGCCCTTATCATAAATTGCTTACCCAGATAATATCACTCCTGACACTTGAAGATCCA
GTAACCAANAACCCTATGATTCATTGGCACCAATAAATGTTGTTTGGAAGTTGGGCTGGT
TTATTCCCAAAGGCCCATTGAAAGATGGGGGAGGATAAAATAAATGGTCATTTGAAATCA
AAAAGTCAATTATTGTTAGGCCAGAAAATGGTAAATATTTGGACCAAGTTGGCTTGCATT
CATTTGGGNGGGCTTTGGTTGCAACCTTAAANTACATTTTGTAAGTTCATCCCCTGGAGA
ATACCNGGTGGAATCCTTAAT

Sequence 1843

CGACCNCGCGTCCGGGGGATCTGTGCCTGGCATGGGGACGAGTTCTGGCCTCCTTAGGGT
ACGGGGAGAGCTTGGACTTTGGTCCTGACGTGGTGGACGACACACCTTCGAAGAGTGGAC
GTTACCTCAGTTGTCTGTTGTTAGAGTTTAATCGATCACTCCTCTGTTTTGTTGTGTTCT
TTCCCAGAAATAACTTTACCAAAGGAAAGCTATTTTGCGAACTATCTTCTCCAGCGGAGA
TGGCCAATGTGCTTTGTAACAGAGCCAGACTGGTTTCCTATCTCCCAGGATTTTGCTCTT
TAGTTAAAAGGGTTGTCAATCCCAAAGCCTTTTCGACTGCAGGATCATCAGGTTCGGATG
AGTCTCATGTGGCTGCTGCACCTCCAGATATATGCTCTCGAACAGTGTGGCCTGATGAAA
CTATGGGACCCTTTGGAC

Sequence 1844

GGGACAGAGCCCCCGATCCGCCAGCACCACCTGAGGATTNNGAAACCGCCCCAGCGATGG
AAGAGGGNCAGGAGCTGGAGAGGAAAGCAATAGANGAACTGCTTAAGGAGGCAAAACGTG
GGAAAACTAGAGCTGAAACAATGGGACCCATGGGTTGCTTATTACAGGGACAAGATACAA
ACTAAAATCAGCCAAAATAAGACACAAAGATTAAAGCCA

Sequence 1845

CGTNCGGGACCCGNCAACATGGGCCGCGTTCGCACCAAAACCCGTGAAGAAGGCGGCCCG
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GTGCGAGGAGATCGCCATTATCCCCAGCAAAAAGCTCCNCAACAAGATAGCAGGTTTATG
TCACGCATCTTGATGAAGCGAATTTCAGAGAAGGCCCANTTAAGGAGGTATCTTCCATCA
AAGCTGCAGGNAGGAGTGANGAGAGNAAAGGAGTAGACAATTATGTTTCCTGAAGGTCTC
AGCCTTGGGATCAAGNGAGAATTATTNGAAAGNTAGATCCCTGNACAACTAAAGGAAATG
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Sequence 1846

GTCGACCCCGCGTCCGCAGCCTGGCCTGTGAGACCCTCGTGGACAACAACCTGCGGGTCA
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GCTGCTCCCCCAACGACTTCAAGCCACAGGACTTCCTCCGGCTGCAGCAAGTCTCCAGAC
CCACCTTCTTCGCCCGGAAGTTCGAGTCGACTGTGAACCAGGAGGTGCTGGAAATCCTGG
ACTTCCACCTGTATGGCAGCTACCCCCCCGGCACGCCAGCCCTCAAGGCCTACTGGGAGA
ACACCTACGACGCGGCTGATGGCCCCAGTGGGCTCAGTGATGTCATGCTCACTGCTTACA
CAGCCTTCGCCCGCCTCAAGCCTGCACCATGCCGCCACTGCTGCACCCCCAATGGGCACC
CCACTCTGCAGGTTTGAGCCCAGGGGCTTTGCCGTCCAAGCGTGCACCTGTATTTCTATG
ACGACCATTTC

Sequence 1847

TCCGCAAGAGTTATGCTTAAGACCAGCCAGCCTTGATAGTGGCAGAACATCCACTAGCAA
TAGCAATAATAATGCTTCACTACATGAAGTCAAAGCAGGTGCAGTTAATAACCAAAGCAG
GCCACAAAGCCACAGCAGTGGAGAATTTAGCCTGCTTCATGACCATGAGGCTTGGTCCAG

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CAGTGGTAGCAGTCCAATCCAGTACTTGAAAAGACAGACCAGATCAAGCCCAGTGCTCCA
GCACAAAATATCTGAAACACTGGAGAGTCGACATCACAAGATCAAAACTGGTTCCCCTGG
AAGTGAAAGTTGTTACTCTACAACAGTTTTTGGAAGAAAGCAATAAGCTTACCTCAAGTA
CAGATAAAGTCCTCAAGTCAAGAGAATCTTTTAGATGAAGTAATGAAAAGTTTGGCTGNC
TCTTCTGACTTTTTGGGAAAAG

Sequence 1848

GCGTCCGCGCCGGGCCGCTCTAGCCGGTGAGGCCGGCGGGCTCTCTGTGGCTGCGGCTGG
GAAACCGCGCGGAGGAGGTGCCCGGCCGGGGACCAGCCCTGGTCCAGCGCCTCCCTCTCT
CAGCATGGACGAGGAGAGCCTGGAGTCGGCCTTGCAGACCTACCGTGCGCAGCTGCAGCA
GGTGGAGCTGGCCTTGGGCGCCGGCCTGGATTCGTCTGAGCAGGCTGACCTGCGCCAGCT
GCAGGGGGACCTGAAGGAGCTCATCGAGCTCACCGAGGCCAGCCTGGTGTCTGTCAGGAA
GAGCAGGTTGTTGGCCGCGCTGGACGAAGAGCGCCCGGGCCCGCCAGGAAGATGCTGA

Sequence 1849

AGTCACCACGCGTCCGGGTTGCACTCTTCCTATAGCCCAGAGGGCGAGAGGGCCTGTGGC
CTGGGGGGAAGGAGGACGAGGTTCTGCCTGGATCCCAGCAGTAGGACGCTGTGCCATTTGG
GAACAAAGGAATAGTCTGCCTGGAATCCCTGCAGATCTTGGGGCCGGAGGCCAGTCCAAC
CCTTGGAGCAGGAAGAAACGCAAAGTTGTCAAGAACCAAGTCGAGCTGCCTCAGAGCCGG
CCCGCAGTAGCTGCAGACTCCGCCCGCGACGTGTGCGCGCTTCTCTGGGCCAGAGCGAGC
CTGTTTTGTGCTCGGGTTAAGAGATTTGTCCCAGCTATACCATGGGCCCGCACTCGGNAA
AGCTGGCTTGCGTGGCCGCTGGTGTGGTTATCGGGGCTGGTGCCTGCTACTGTGTATACA
GACTGCTTGGGGAAG

Sequence 1850

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GAGTAAAAAGGGCTGAGTTATGCCTTTAAGNGCTGTCAAGAATTCACTTGGGTTTGGGAC
ATTTGCTGGTGTAATGCTAGATGCCCACAGCANCATAATATTGNNCTTTGTCAAAGGTNG
GTAAATNCTNTGNTTNTCANCANCCCTTTCCCCA

Sequence 1851

AGTCACCACGCGTCCGCGGCTGGTGGTGGGCTCGGGCCGCTCGCCTTGCCCGTCTTCGCT
TCCGGAGGTCGCTACTGCCGCCTCAGCGGCCCCGGAGCGGGGGCGCCCGGGGGTCCTTCG
CCCCCGGCCACGGTCCCCGCGCCGGGGCTTCGCCGCCCCCAGTGTCCGAGCTGGATCGTG
CGGACGCCTGGCTCCTCCGAAAAGCGCACGAGACAGCCTTCCTCTCCTGGTTCCGCAATG
GCCTCCTGGCATCGGGCATCGGGGTCATCTCCTTCATGCAGAGTGACATGGGTCGGGAAG
CAGCATATGACCATCCCCCGACCTTGGCCCTGTTGCTACCCTGCCTCTNCCGCAGGCTTC
TTNCTGCTGGGCGGCCTGTGCGTGGTGTGGGGCAAGCGCCTTGTACCCGTGGGCCTGGCG
GCGCTTNGAGGACCCATGCAGCTGACCTGGGGGGGCCGGCCTGGG

Sequence 1852

GCGTCCGCTCGCTGCAGCCCCGCCTGGGCCACGGCACCCTCGAGCGCCAGCCCCGCGCCC
CACCCGGGAGCAGCGAGCCACCGGCGCGCTCCCCAGGAGCCCCTGCAGGCGCCGGCCCTG
GTCCAGCGCCTCCCTCTCTCAGCATGGACGAGGAGAGCCTGGAGTCGGCCTTGCAGACCT
ACCGTGCGCAGCTGCAGCAGGTGGAGCTGCCTTGGGCGCCGGCCTGGATTCGTCTGAGCA
GGCTGACCTGCGCCAGCTGCAGGGGGACCTGAAGGAGCTCATCGAGCTCACCGAGGCCAG
CCTGGTGTCTGTCAGGAAGAGCAGGTTGTTGGCCGCGCTGGACGAAGAGCGCCCGGGCCG
CCAGGAAGATGCTGAGTACCAGGCTTTCCGGGAGGCCATCACTGAGGCGGTGGAGGCACC
AGCAGCGGCCCGTG

Sequence 1853

GCGCCCCGCGTCCGGAAATTGACCCCTAGAGAAAATCCCATTAACTTGTTAAATTAGTGG
AATTAACAACAAATAAAGCATGTTTGAGACCTGGCAAAAATTCCTCTGGTAGTATTTATA
AATAGAGCTGCATGCCTCTAGTATGAAAACCGTATCAGTTGCAAGTGCCACTTCTACAAG
TTACTCAGTTTACTCTTTGTATCAGTAACTTTAAAGGTTGGATGATCCTTGCTGGTTAAA
GCTAAATCTCAACCTAGCAACTAAATGAAAATATTTAGAATCATCAGAATCTGAACAGAC
TAAAATTATCAGCGATAAGCAGAATCAAGCAGGGTATAAGTTTTATCTCAATTATTTGAA

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ATTGACTGGAGTTTTCTTAAAGTGTAAAGCTGAAATTTGCTAACCATGTTTTTGATGAAC
CCACAGTGCAGCATTGGGTTGGGGTTTTAGATTTGAATGACTCTCTGCTATAATTATCAT
GACTTTGAAA

Sequence 1854

TGTCGACCCCGCGTCCGAACCTTTGGGAGACTCCAAGACAGCATGCTCCGAGGTCGGCGG
GGGTCTGGGTGGCCATGGAGGAGCCCCCTGTGCGAGAAGAGGAAGAGGAGGAGGGAGAGG
AGGACNAGGAGAGGGACGAGGTTGGGCCCGAGGGGGCGCTGGGCAAGAGCCCCTTCCAGC
TGACCGCCGAGGACGTGTATGACATCTCCTACCTGTTGGGCCGNGAGCTTATGGCCCTGG
GCAGCGACCCCCGGGTGACGCAGCTGCAGTTCAAAGTCGTCCGCGTCCTGGAGATGCTGG
AGGCGCTGGTGAATGAGGGCAGCCTGGCGCTGGAGGAGCTGAAGATGGATAGGGACCACC
TNANGAAGGAGGTGGAGGGGCTGCGGAGACAGAGCCCTCCGGCCAGCGGGGAGGTTGAAC
CTGGGCCCAAACAAAATGGTGGTT

Sequence 1855

TGTCTGCCGAACAACTGAAAACTATGCAGGTTATATCATTCCACCAGCACCACCAAGACC
TGATTTTTTGATGCTTCAAGGGGAGAAAACTACATGAAGCTTGGNGAAGNGAGAAGGGTC
AAGTGACCGAANNGCAAGNAATTTCACAAANAGAATGAAACNAGGCAACTGGAAAGCTCG
AAATANTTTTGGCAATTATTTCAGAGGANAGCACCAGATTTGCCGTATTGCATNGGAANT
TGNTACCCNGTAGTTCCNTGTTGGANATGTCAACANTCCCCTANTNTTTTGNACGAAACT
AAGGAATTNTAGAAATTTTTGCAATNGTTCCTTTACTTGGGGGAAAATTATTNNAATTCC
AAAGGAATCTTTNAGAGNTTGNNTNGCCGTAANGGCAAGAGAGAGNCNATNNTNGAAACT
NAGGAAGCGGAAACCTTTTGNAAANAACTTTTCTTTTTTA

Sequence 1856

GAGTCGACCNCGCGTCCGGCGGCGAGCGGGACTGGCCATTGGAGTGCTCCGCTGCGGAGG
GAGGGGACCCCGACTCGAGTAAGTTTGCGAGAGCACTACGCAGTCAGTCGGGGGCAGCAG
CAAGATGCGAAGCGAGCCGTACAGATCCCGGGCTCTCCGAACGCAACTTCGCCCTGCTTG
AGCGAGGCTGCGGTTTCCGAGGCCCTCTCCAGCCAAGGAAAAGCTACACAAAAAGCCTGG
ATCACTCATNGAACCACCCCTGAAGCCAGTGAAGGCTCTCTCGCCTCGCCCTCTAGCGTT
CGTNTTGGAGTAGCGCCACCCCGGCTTCCTGGGGACACAGGTTTGGCACCATGGGGCCCA
CCAGCGNCCCGCTGGGCAAGGCCCACCGCAGGCTCGGTCTNTGACTACGNCAACTATGAT
ATTCATTCGTCCGGCATTACAACTACACGGGGAAAGCTGAATATCAG

Sequence 1857

CGTACGCCGAGCGCCGCTCCGGCTGCACCGCGCTCGCTCCGAGTTTCAGGCTCGTGCTAA
GCTAGCGCCGTCGTCGTCTCCCTTCAGTCGCCATCATGATTATCTACCGGGACCTCATCA
GCCACGATGAGATGTTCTCCGACATCTACAAGATCCGGGAGATCGCGGACGGGTTGTGCC
TGGAGGTGGAGGGGAAGATGGTCAGTAGGACAGAAAGGTAACATTGATTGACTCGCTTCA
ATTGGGNGGGAAATGCCTCCGCTGAAAGGCCCCCGAGGGCGAAAGGGTACCCGAAAGNCA
CCANGTAATCACTTGGGTGTTCCGAATATTGGTTNATTGAAANCCATTCAACCCTTGCNA
GGGAAAAACAAAGGTTTTTTCNAACAAAAAAAGAAAAGCCCTTACAANGGAAAAGGTTAC
CATTCANANAAGAATTTAACATTTGGAAAATTTCAAATTCTAAATAGGGGGGAAAAACCT
TTTGGAAAGGAAACCAGGANGTACCCCAGGANAAAGGAAGGTAAAAAA

Sequence 1858

GNGTCGACCCCGCGTCCGGTGGAGGGTCAGGAGCTGCCCCGGATCCTCTCCATGTAGTTG
CGAAGCTCCTCAGGGTCCTTCAGCCCCATGTCCTCACACACCCAGCGGATGTCCTCCTCG
CCTGCCACAAGGATGGACTGCACAGCAGGGGCCCCTACAGGCTCCTCAGGTGACTGGGCT
GGAGGGGCTGGCGCAAATGTCACAAACTCTACTCGCTTCCGCCGCCCCCCAGCCTCCTTT
CGGGCCAGGGTGCTTGAGGAGCTGGTGGTGCCCCCAGGAGGGCCAGGGGCCAGGGTAGGG
GCCTCCCCTCCTCCCCCCACTCTCACAGGGGCAGCTCCCCTCCCCCTTGGGCGGGCCAGGG
GACTGCCGGTCCAGCTGGCGGCTCAGTTCCTCCTGGTCAGTGCCCAGCCAGACCCAGTTG
TGGGGCTGGGGGAGGTTGGGG

Sequence 1859

GCGCCCCGCGTCCGGCGGCGGCGGCGGCGGCAGCGGCAGCCAGAGGACTCCCAGCGGCTG

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GAGCAGAAGTGTTAGCCGGCCAGAGCTCCCAGACCCCTACCCACAGCCAGGCGGGACGCG
CACAGTCCCTCCACGCGGAAAGAAGTACCTTCGCCGGTCACCGGCTCCTGCAGGGTTGCA
NATATATACAGAGCTTCATAATCAGCCCAAGACCACATAGAGCAAACATGAATGATATTT
CCCAAAAGGCTGAGATTAAAGAAATGCTTGCTTCTGATGATGAGGANGATGTATCTTCTA
AAGTNGAAAAGGCTTATGTTCCAAAA
Sequence 1860
CGACCCCGCGTCCGACCCACTGAAGACGTCTGCGTGAGAATAGAGACCACCGAGGCCGAC
TCGCGGGCCGTTGCACCCACCGCCAAGGACAAAAGGAGCCCAGCGCTACTAGCTGCACCC
GATTCCTCCCANTGCTTANCATGAAGAAGGCCGAAATGGGACGATTCAGTATTTCCCCGG
ATGAAGACAGCAGCAGCNTACAGTTTCCAACAGCGACTTCAACTACTTCCTACCCTCACC
AAGNCAAGCTTGCTCTGAAAAGCCCANTTATGCCANAATGTAGGATCCTGAAAACCAAGA
AACTTTTTTACTTGAAATT
Sequence 1861
GCGTACGGCCTGTTGGGCTGTCTGGGGGGGTGGCCATTTAGGGATCGTGGGGACGGGGTCC
ACCCCANNCAAGAAAGAACAGGCCCGTCCACAGGCCCGGCTCTGGGCCACAGTGCCCCGG
AAGCAGGTGTGTCCAGAGTCANGCTTGAATGGCTCTCCCCACAACCACCCAGCNAGGCGC
TGGTGCNTCCTTCTGCCTCATGGGACCAGTCCAGCTTNCAGCCGCTCTGGGCTCGAGGGT
NGGTACTGACCACTTTCCTTCTTGAGNTGGGAGCATTCTCTTGGGGGAGNCTCTTCCAGT
GGGCACCTGCCTGGGACNCTTGCCCACCGGTTTTCTTGTAAAAATCAGGAATACCGGTGG
CTTTTAGTAAAAGGCAAGACCANAGNCGCCTTNCGTTGGGCAGGGGAAAAGCCAAGCGTG
CCGGNGGGNAAGGTCACTGGAAAAAGGTGGCTTGCCCTAAGGGGGAAGTTTGGGAAAATA
GTCCCCCTGTTCCAAGAANTGCCTTTGAATTTTTAAAAACATTTTTGGCT
Sequence 1862
CAATNTACAACGCCATGTNCACCCANATGTTCCAGACTAAGCGCTGNTTTCGACTGGCCC
CCACCTTNAGCAACCTGCTCCTGCAGCCNACCACCAACCCTCATACCTCGGNCAGCCACA
GGCCTTGCGGTCAATGGGGATGTAGACAAGCCTTCAGAGCCAGCCTCTGAGGAGGGCTCT
GAGTNGGAGGGGAGTGAGTCCAGTGGACGCTCCTGTCNGAATGAGCGCAGCATCCANGAG
AAGCTTNAGGTCCTGATGGCCNAAGGNNTGCTNCCTTGCTGTGAAAGTCTTNCTGGACTG
GCTTCNGACCAAC
Sequence 1863
NGGAGTCGACCCACGCGTCCGGCCGCCAGAACACAGGTGTCGTGAAAACTACCCCTAAAA
GCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTTCGTCATTGGACACGTAGATTC
GGGCAAGTCCACCACTACTGGCCATCTGATCTATAAATGCGGTGGCATCCGACAAAAGAA
CCATTGAAAAATTTGAGAAGGAGGCTGCTGANATGGGAAAGGGCTCCTTCAAGNTATGCC
TGGGTCTTGGATAAACTTGAAAGCNTGAGCCGTGAAACCGTTGGGTATCACCATCTGGAT
ATTCTTCCTTTGTGGGGAAATTTTGGAGNACCAGGCAAGTTACCTATTGGTGGACTTATT
CATTTGGATGGCCNCCAAGGGACCACCAGGAGGACCTTTTATCAAAAAAAACANTGATTA
CAGGNGGACATCCTNNAGGCCTGGACTGGTGGCTGGTCCTGNATTGGTTGCTGGCTGGGT
GGTTTGGATGGAATTTTGAAGGCCTGGGNTATNCTTCCCAAAAGAAAT
Sequence 1864
GCGTCCGATGGCGTGNTGTCTCACAGAAAGTTCTCCGCTCCCAGACATGGGTCCCTCGGC
TTCCTGCCTCGGAAGCGCAGCAGCAGGCATCGTGGGAAGGTGAAGAGCTTCCCTAAGGAT
GACCCATCCAAGCCGGTNCACCTCACAAGCCTTCCTGGGATACAAGGCTGGCATGACTCA
CATCGTGCGGGAAGTCGACAGGCCGGGATCCAAGGTGAACAAGAAGGAGGTGGTGGAGGC
CTGTGACCATTTGTAAGAGACACCACCCATGGTTGGGTTGTGNGGCAATTGGTGGGCCTA
CCGTTGGGAAAACCCCTCGAGGCNCTCCGGTACCTTCAAGACTTGTCTTTTGCTGGAGCA
CAATCAGTTGAATGAAATGGCAAGAAGGGCGGTTTNTTATTAAAGTAATTTGGCCATTAA
AAATTCTAANGAAAGGAAAGGGCCTTTACCAAAGTTACCTGCAAGGAAAATGG
Sequence 1865
CCGGCCGGGCTGGGTCCCAGCACNTGACCCCAGCTGCACTGCTGTACAGGGCTGCNCGTC
ACCCGAAGTCAGAAACGTGGCATCTCATCGGAAGAGGAGGAAGGAGAGGTAGACAGTGAA

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GTAGAGCTGACATCNAGCCAGAGGTTGGCCTCAGAGCCTGAACATGCGCCAGTCACTATC
TACCTTCAGCTCAGNAGAATCCATCAGATGGGGAGGAAGGCACAGCTAGTGAACCCTTCC
CCCAGTGGCCACACCTGGAAGTTGGCTAGCACCAACACNTGATGAGTCCGGGCNCAGNAT
GAAGCNGNGTTCTGATGAACATGTTGACTCCCAAGGGGCTCAAGAAAATCCCCACNTGGG
ACNCCACTCTCCTTCAGGAGGGTCATACCCTGGGCCCTGGAACCCAGCTCCCTGGCCCA

Sequence 1866

TTGCGCCCCCGCCGGTGAGCGCGGGGAGCGCCGCAAGCCCAACGCCGGGGGCAGCCCCGN
TCCGGTGCGCCGCCGGCCGGAGGCCTCGCCGGTGCAGAAAAAGGAGAAGAAGGACAAGGA
GCGGGAAAACGAGAAGGAGAAGAGTGCCCTAGCCCGGGAGCGCAGCCTCAAGAAGCGCCA
GTCGCTGCCCGCCTCCCCACGTGCCCGCCTCTCTGCCAGCACCGCCTCTGAGCTCAGCCC
CAAATCCAAGGCCAGGCCATCCTCTCCCTCCACATCCTGGCACAGGCCTGCCTCCCCCTG
CCCCAGCCCAGGGCCAGGCCACACTCTGCCTCCAAAGCCACCGTCCCCCCGAGGCACCAC
TGCATCCCCCAAGGGGCGGGTTCGGAGGAAGGAGGAGGCAAAGGAGAGCCCCAGCGCCGC
AGGGCCCGAGGACAAGAGCCAGAGCAAGCGCAGGGCCAGTAACGAGAAGGAGTCAGCAGG
CCCAGCCTTACCGGCACCTTTGGCGGNGCCTTGGCCAACCCAAGCCCGGCCCAAAAGGAG
CAAGCCCCCGNGGAGACCCCTTACAGACCTGGTTTCTTTGACTTAACCCCAAGCCCTTGT
TCCCCGGTGGACCCTAGCAAANCAATGGGCCGGNACCACAAGANCGAGAAGAAGCCCCTT
GGNTNTTGGCTTGAAAGCGGCGCCAGGNCCCGGGAACAACCGGAAGCCCCANGAGCAAGA
ACCGANGCTTTANGCAAAAAAGGACAAAGCCAATTGCAAAAGGACAACTTGCACCGGAAG
GCCCAGGC

Sequence 1867

CCCCGCGTCCGTTTAAGAGTTGCATATTTTACTTTATTTTTATTAAATTAAAAGCTACAG
TCTGGCAGCGATTCCAGAACAGGGTAAGGAGGTTCCTCACAGGGGTCAGAGAAGAGCGGA
GAAAGACAGACTGACGGAGACTGAGACACAGGAGAGAAAGGACAAGGTTAAGGGAGAACT
GTATCTGATGAACACACACAGCCGGCTCCATGGCGGGTGACGGGGAGCTCACATCAGCCC
AATTTCTCCTCCCCGGCACCCGAAGTTCAGCGGTGGAGCAGTATGTGGGGGCGGTTAGGA
ATCAAGAGACCCTCCCTTCCCCACCCTAGGTCCTTTCTCGGCTTGGTCGTGGAGCACAGC
ACATACCAGAAAAAGCCAAGGGCAATGGAGGGGCAGGGAAACCGGGAGTATATGTACACG
GGGAGGGGAGAACAGAGCCTTGGAGGTCGGCCTCTGCCAGAAGGGAAGTGGCTCACACTT
GCATTTGNAACACTTGGCCAGTGGGGGATGGGGGAAAGGAATTGCCCCTTCCTTTTGG

Sequence 1868

CCCNCGCGTCCGCACACCCTTCCTGTACTCAGTCCTCAGTTTGCCTGGTGAGAGAGCAGC
CTCCTCCCGTGTGCTCTGCCAGCTGGACCCAGACTGGCCATATTACCAGTGAGACCAAAA
AGATGGAGGTGGGGAGGTAGCTCTGAGGTCTGGGAAACCATTCCAGCTCCTGCCAGTTTT
AACTTGTGTTTAATTCCTGGCACAGTTGTCCTGGAAATGCCTTTTTCTCTTGCCTGGGAA
CCACTAGAAGGGGATGTTGTCTGTGTTGGCCAGGGCCATGCAAATTCAACATCTTGTTTC
TGCCCTTCCCCCGTGTAGCTGAGGCTAGGTGTTGGCATTACCCAGTGCTTGTTCTTCAGA
GAGCAAAAGCACTGCTCGTCATGTCTGAAATTTAGTGAGTGAGCTCACCCACTAGGCTGG
TGTTTCCTGCCCGTGGCTGCACATTGGAAGCACCGGGGCACTTTGAGAACTACAGATGCC
TGGGTCCCAGAGCATCTAAGGTGCTCTAGGGTGTGTCCAGGACACAAGCCCTGGTTGAGG
ACCACTGCTATATTGTATGGCCTCTTTTAAAAAAGTTAATTTTACTTGGAAATGATTTCA
AAGCTACAGAAAAGTTGCAAGAATAAAAACTGTACAAATGAGGCTTAAATATTCTTTGGC
CAAATCACCTATTAACATTTCGTTCCAAAAAAAAAAAAAA

Sequence 1869

GGGCAGCGCCTCCGACATGAAGGCTGAGCTGTCGCAACTTATTAGCGACCTGGGCGAGCT
CAGCTTCGGCAACGACGTGCGCACCCTGCAGGCCGACTTGCGGGTGACGCGCCTGCTGTC
AGGCGACAGCACGGGCAGCGAGAGCTCCATCGAGGGCGGGGGCCCTGACGCCACCTCCGC
CACCGCCGGGGACTCGTCCCGCCAGGCCGACGGCGCCAGTGCAGACGAGCCCCACTCGGG
CTGAGCTCCTCCGCGCGTCGCCGGCGCTCCACCGTGGCTACCCATCCGTGGTCCCGACAA
CCTCCCTGTCCCTTGCCCGCCCCCAGGAAGGGGGAAATGGGGCATTTGGGGCCCAGACCT
ACACTTGGAGCCCAGGTCCAAGCGTTCCCCGACCGCTTTCCCTACTNCCGGNCCCCGCTC

TABLE 1

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CCGCCCCAAGAACTTTTGGCTTTTTTGCGCGTGGGGATGCGGGGAGATTTGAGANGGGNA
AACCCCCGCCAGGAAGGAAGAGAAGAGGCACCCCTTTGGGAATGCCGGTGAAGGGAAGGT
TGGCTGAAGTTCCTAAGTTTAAGGCCTAAGGTGCCTTGGNCAGGTTTCCTGTTTGTGGGG
GAAACTTGGGNCTTGAGGAGGANGGGGTTAAATTTCTTCTTCCAACCCCTGGGAAGCGGG
CCTTGCCTTGGANNTGAAATTTAANTNAAAAAAAAAAAAA

Sequence 1870

TCTTCATCATGGGTGCCAGCATCCACCTGGTGGGTGACTCTGTCAACCACCGCCTGCTCT
TCAGTGGCTACNAGCACCACCTGTCTGTCCGTGAGAACCCCATCATCAAGAATCTCAAGC
CGGAGACGCTGATCGACTCCTTTGAGCTGCTCTACTATTATGATGAGTACCTGGGTCACT
GCATGTGGTACATCCCCTTCTTCCTCATCCTCTTCATGTACTTCAGCGGCTGCTTTACTG
CCTCTAAAGCTGAGAGCTTGATTCCAGGGCCTGCCCTGCTCCTGGTGGCACCCAGTGGCC
TGTACTACTGGTACCTGGTCACCGAGGGCCAGATCTTCATCCTCTTCATCTTCACCTTCT
TCGCCATGCTGGCCCTCGTCCTGCACCAGAAGCGCAAGCGCCTCTTCCTGGACAGCAACG
GCCTCTTCCTCTTCTCCTCCTTCGCACTGACCCTCTTGCTTGTGGCGCTCTGGGTCGCCT
GGCTGTGGAATGACCCTGTTCTCAAGAAGAAAGTACCCGGGTGTCATCTACGTCCTGAGC
CCTG

Sequence 1871

CCGCGTCCGGTTTGTTCGTTATAGGTTTAATAAGTCTATTGAGGAAGACCTACTCCTGTG
TGAATCTTTGCAAAGTAATGCTACCGGTGAAGAAATATTCAACTGNATCAACAGTTTTAT
GCAGAAACATGAAATTGAATGGGAAAAATGTGTTGATGTTTGTAGTGATGCTTCTAGGGC
AGTGGATGGGAAAATTGCCGAAGCTGTCACCTTAATAAAATATGTGGCTCCCGAAAGCAC
CAGTAGTCACTGCCTATTATACAGACATGCACTGGCAGTTAAAATAATGCCTACATCTCT
AAAAAATGTGCTAGACCAGGCAGTACAAATCATCAATTATATTAAAGCTCGACCACATCA
ATCCAGACTATTAAAAATTTTATGTGAGGAAATGGGTGCTCAGCACACAGCACTTCTTCT
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TCGTGAACTTTTGGTTTTCATGGATTCTGGCTTTTCGACTATCTTGATTGGTTAACAAAA
TTCATCTTGGCTGCTAAGACTTGCATATCTTGCAGATATTTTTACTAAATTAAAATGAAA
GTTAATTTGTCAATGCCAAGGNAAAAATGTGACCCGTTTTACNAGTATTTGATAAAATGT
CGTCATTGGTAAGAAAATTGGAAT

Sequence 1872

TCGACCCACGCGTCCGCGGACGCGTGGGTGTGACTGGCACCCAATGCCATGCCTTTATGG
TCACTTGGTAGTATAAAGGCATGGCATTTGTTGTGACTGGCACCCAATGTTTGATTTTTT
TTTTAAAACTATCCAATTAAAATTAAGGTCTGGGAGTGTTCTGTTTCCCATTCTTTAATA
CTCACCTCCTCCCAGACTTTCTACACCTGTTGCACCTCAGGCAGAGGATGTTCTGGACCT
CCCCCTCTTGGTCCCTACTAGAGACCTCTCAACAGATCTGTGGGCCCAGTCATTGGGTTT
TATCAGTGCTTAATGTGAACTAAGTTTTTTACTTCCACAGAATACAAGCCACTACCTTCT
GACCTCCCCACCCCCCACCAACCCCCATCTTTTAATATGCTGTGGGGCATAGAACTCCGG
AATGACCAGCATGATATTTTCAGAGTCTTGTCCCCGGGGTATTAGCACCTCTTTTTGAAC
AGGGAATTGATTCAAGATTGGACATGGTCTCCTCTGATTATCAGGTACTGGGGCTGAGGG
CATTAAAAATAGTAAGCCTCCCTCTCGTCCCCTGCCTCAAGAAATTGCCTCTTATTTATC
AACATCTTTTTCCTC

Sequence 1873

CCNCGCGTCCGGTGTTCCTCCCTGAGAATTAGTGGTCAGACATTGCAGAGGGCATCAGAA
GCGGGTAGATGAAATAGCGAAAGGAAACAGGCTAGCAGACCAAAGAGCTAAGTCAGCAGT
AAGAAGGCCCCAAGGTCCCAAAACACTTGAGGCCCCTCTGATTTGGGAGGGCTACATAAG
GGAAATAAAGCCTCAGTATTCCCCTACAGAGATAGAATGGGCCACCTCTCGAGGTATACT
TTTCAACCCTCAGGATGGTTACAATCAGAAGATTGCAAAGTACGCTTGCCAGCCTCCAGC
CAATGGAAGATTCTTAAAATCCTCCACTGAGCCTTTCACTTAGGAAAGCATAAGACATCA
GTGCATCCAAAGATTGTTCTCAGGAGAAAATCTACTAAAAATGGTCAAATAGGTTGTTAA
TACTCGTGAAACCCTCTTAAAAATAATCCCTTTAACAGATGACTTCTTCCCCACCACAAT
CAAAGGA

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Sequence 1874
ACGCGTCCGATGACCAGGCTGCCCCGCCTCCTGGTTCTGCCCAAGTTCTCCCTGGAGACT
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CAGGCTGACTTCACGAGTCTTTCAGACCAAGAGCCTCTCCACGTCGCGCAGGCGCTGCAG
AAAGTGAAGATCGAGGTGAACGAGAGTGGCACGGTGGCCTCCTCATCCACAGCTGTCATA
GTCTCAGCCCGCATGGCCCCCGAGGAGATCATCATGGACAGACCCTTCCTCTTTGTGGTC
CGGCACAACCCCACAGGTGAGCCTGGAACCCATCACGTTCCACATCCTCCCACCCATTCT
TTCTCTCAGGAACTAGTCCCGACAGATGCAGACATCCCTCTATCCCTGAGAGGGCTCTGG
GCAGGGAACCCATAACCCTACCCTGCTTCCTGTCCCAAGAGGAGGC
Sequence 1875
AGTCGACCCACGCGTCCGCCCACGCGTCCGCCTTCTTCTGGGCACTGACTGCCCTTCTGG
TCGCTTCAGCTGCTGCCTTCCAGGGTCTTCTGCTGCTGTTGCCGCCACCACCATCTGTAC
CCACAGGGGAGTTAGGATCAGGCCTCCAGGTGGGAGCCCCAGGAGCAGAGGAAGAGGTGG
AAGAGTCCTCACCACTGCAAGAGCCACCAAGCCAGGCAGCAGGCACCACCCCTGGTCCAG
ACCCTAAGGCCTATCAGCTTCTATCAGCCCGCAGTGCCTGCCTGCTGGGCCTGTTGGCCG
CCACCAACGCGCTGACCAATGGCGTGCTGCCTGCCGTGCAGAGCTTTTCCTGCTTACCCT
ACGGGCGTCTGGCCTACCACCTGGCTGTGGTGCTGGGCAGTGCTGCCAATCCCCTGGCCT
GCTTCCTGGCCATGGGTGTGCTGTGCAGGTACACAAGGACCCCCAGCCCCTGTGCGGGTG
GAACTCA
Sequence 1876
TCGACCNCGCGTCCGGTCTTCGCAGGTGGCCCTCGGGCCCGCAGCCGCTGGGTAAGGGTG
ATGCCTAGCCTGGCTTATTGCACCTTCCTTTTGGCGGTTGGCTTGGNGCGAATCTTCATC
TTAGCACATTTCCCTCACCAGGTGCTGGCTGGCCTAATAACTGGCGCTGTCCTGGGCTGG
CTGATGACTCCCCGAGTGCCTATGGAGCGGGAGCTAAGCTTCTATGGGTTGACTGCACTG
GCCCTCATGCTAGGCACCAGCCTCATCTATTGGACCCTCTTTACACTGGGCCTGGATCTT
TCTTGGTCCATCAGCCTAGCCTTCAAGTGGTGTGAGCGGCCTGAGTGGATACACGTGGAT
AGCCGGCCCTTTGCCTCCCTGAGCCGTGACTCAGGGGCTGCCCTGGGCCTGGGCATTGCC
TTGCACTCTCCCTGCTATGCCCAGGTGCCGTCGGGCACAGCTGGGGAA
Sequence 1877
ACCCCGCGTCCGCCCTTAAGAGACAATGATTGAGAAAGAGCCATGTGGCTTGGCTCTAGA
AACGTCATTATCATTAGGACCATCAGATTTTAGATTAAGCTGCTATTGAATTAATAAAAT
CCCAATGAAGCAGAGTTATAGGGATAGATTTATAGCTGGCAGAGTGGTATCAAAGGAGAA
AAACAGTGAAAAAGCCAATTTCACTGGTTCGTTCAATCCAGCTTGTTGCTAATATTAGTT
ACCCTTGTTTTAATGACAGAGAGTGGCTGGAATCTGTAGCTAGGGGAGGGGCAACACTGT
TAGATGTGAGGAAAGGAAGTGCCAAAAATGCCTGGACAGATGGCTTGTCCCAAGGCCAGG
ACACACACTTTAAAATCCAACATTCACCTAAGCAAGTAATTCTTAAAGATCTTACAGAAA
CGCAGAGTCAATTCAGGTTTATAAAGGAAGGCTTNAGGGGAGAGAGGAAGGCCTGGGGGG
CCTGGACGAAAGAGGCCTAGGACCTGAAGAGACTCCAGCGAGTCTTCGGGAAGC
Sequence 1878
AGTCGACCACGCGTCCGCAGCATCGTCCGAGACTTCCCAGACTCCCGGCCAGCCATCGAG
GACCTCAAGTACTGCCTGGAGAGGACGGACCAGAGGCAGCAGCTGCTCGTGTCCCTCAAG
GCTGCCCTGGAGACTCGGCTCCTGCATCCAGGCGTCAACACGTGTGACATCATCACCCTC
TATATCTCTGCCATCAAGGCGCTGCGCGTGCTGGACCCTTCCATGGTCATCCTGGAGGTG
GCCTGTGAGCCTATCCGCCGCTACCTGAGGACGCGGGAGGACACAGTGCGGCAGATTGTG
GCTGGGCTGACGGGGGACTCGGACGGGACAGGGGACTGGGCTGTTGAAGCTGTCCAAGAC
CGACCCGGCGAGCCTGGAGACAGGCCAGGACAGTGAGGGATGACTCAGGCGAGCCAGAGG
ACCTGGGGTCCCGGACCCTGTGGATGCCCGATCAGGGGAAAGTCGAGCTCCAGCC
Sequence 1879
GTCCGCACAATTGAAAACTGGGAAAAATAATCTCGTGGTTCGGTTTGTTAGTTTGAGACG
CAGTCTCACTCTGTCGCCCAGGCTAGAGTACGGTGGCCCAATCTCAGCTCACTGCAACCT
CCAACCTCCCAGGTTCAAGCAATTCTCTTGCCTCAGCCTCCCGGGGTAACTGGGGATTAC

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AGGCGCGCACCACCACGCCCAGCTAATTTTTGTGTTTTTAGTAGAGATGAGATTTTGCCA
TGTTGGCCAGGTTGGTCTTGAACTCCTGACCTCAAGTGATCCACCCACCTCGGCCTCCCA
AAGTGCTGGGATTACAGGTGTGAGCCACCGTATCTGGCTCTCATATTTTTTATATACAGA
TTGAATATCCCTAATTTGAAAACCTGAAATCTGAAATCTTCCAAAATCCAAAACTTTTTG
AGCAGTTACATGATATTTGAATGAACTGCTCATAAGAA

Sequence 1880

GAGGAAACCAAAGTGCTCTGTATCCTCCAGTCTCCGCGCCTNCACCCAGCTCAGGAACCC
GCGAACCCTCTCTTGACCACTATGAGCCTCCCGTCCAGCCGCGCGGCCCGTGNNCCGGGT
CCTTCGGGCTCCTTGTTGCGCGCTGNTCGCGCTGCTGCTCCTGCTTGACGCCGCCGGGGG
CCCCTCGCCAGCTGCTGGGTCCTGTCTCTGCTGTGCTGACAGAGCTGCGNTGCACNTTGT
TAACGCGTTTACGCTGAGAGTAAAACCCCAAAACCGATTGGTAAACTGCAGGTTGTTTCC
CCGCAGGCCTCGCAGTGCTCCAAGGTGGGAAAGATGGTANGCTCTCCCTTGAAAGAACCG
GGTAAGCANAGTTTATGTCTGNNACCCCGGGAANGCCCCCTTTTTTCTTAAAGGAAAAGG
TGCATCCCAANNAAAAATTTTGGGACCAGNTGGGGAAAACCAAGGAAAAAAA

Sequence 1881

GCGTCCGCCCTGGCTCCTCCAGCAAGACCTCGTCTTTGCTTGTCCTGCTCAGATGCTGGT
CATCCTGGGCATGTCCCCAGTGTGGACTCTGGACTGGGAAGGGGGCAGGCCCCTTTGGAC
CTGCAGTTGGCCTCAGCAGAAGGCCTTGCCTTGTGTATGTGACTCCATATCCCGGGAGCA
GTTGACCTTTGCCAAACACTTTACAGTTCTGGAGGAGGAGGTAACATAGATGCCTGGGCC
TGATGGTGGGGCCATACCCATGTGTCGCCTCTCACTCTGGCAGCCTCAGAGGCCCCTTGC
TGCTGGCTCCCATCTCCCTCCCATTTGCAGACCAGGAAGGAAGAGCAAGCTGTACAAAGG
GAAGCAGAGCCTGGGGTGGGGTGTGAGCAGGGTGACCCCTCATCTGAAAGGCCCAAACCA
GGGGGGAAGCACCAGCCTTAGTGCAGCCCCCTCTGACCCCACCTTAGAATGGAAAGCCTT
CACCTGCAGCCCAGGCCTTCCTCCCCGG

Sequence 1882

AGTCGCCCCGCGTCCGGTGATTCCAGGGTGCAGAAGGGATTCATATTCCCAGAACGCTTT
AAGTGTACACCTGCAGGATAAAGAGATACCGGTTACATTATTAAATGATTCTAGGGATTC
ACTGGGGGATATTTTTGTTGCTTTTACTTTCATGGTTAGAGCTACAAAGAACAAGTGATT
TTTTTTTTTTTCTCCCTTCCCCATTCAGAAACATTATACATTGGGCCATTTTTCTTTCTC
CCAAAGAAGATTCATGGATAGTCAGACTGAACTGTGTGCAACAGGAAAAGTCAAAAGGGA
AAAGGCAGCTGATGAGGTTCATGGTTACATGTTCTACATCATGCAGAGTAGCTTGAAATC
TAGTCTGGAGAAAACTGGATCAAGATTCTAGCCCACTGGAGTTGCAAGGAATGAGAGGCA
AAAATTCTAAAGATTTGGGTTATATTTTCAACTTGGGGGACAGAGAGAAATGGAGAGCAG
GAATTACAGTTCCAACAAACATCATGATAGTC

Sequence 1883

CCACGCGTCCGACTAGTTCTAGATCGCGAGCGGCGCCCTTTTTTTNTTTTTNNCACGCTT
AATTCACTTTATTTTTCTTGNATAAAAACCCTATGTTGTAGNCACAGNTGGGGCCTGAGT
CCGNTGCACGGAGACTCTGGTGTGGGTCTTGACGAGGTGGTCAAGAGNAACTCCTNGATA
GGGAGACTTGGGTGAATACANTNTCCTTCCANAGGTCCGGGGGNGTTCATGGTATGCTGTA
NGGTCCTTAAAAAAATGGG

Sequence 1884

GTCCGAAAAAATGATAATGTGCATAAAATTCAACCCAGCTTTCAAAGTCCAGTCAAAATA
TCAGAAATCATGAGGTCCAATGGATTTTGTTTAGCAAATACCGAAACAATAGTTATTGAC
CACAGTATACCAAATGGAAGAGACCAGCACCTGGGCGTGGACCCAACAGAGCATTTATTT
GAGAATGGCAGTGAGTTTCCCTCAGAGCTGGAGGACGGGGACGACCCAGCAGCCTACGTC
ACCAACCTGTCATATTACCACCTGGTCCCCTTCGAGACAGACATTTGGGACTGAACCTCT
CTATCAGGCCTCCCCCGCCTCAAGCTGTTCACTGCC

Sequence 1885

CGCGTCCGCACAACAAGACACTCCAATTGTGATTTGAGTTGAGGATCTCTGCCTGCCTTC
CTGCCGTCCTTCCTTCTTCCCCGATCCATGCTACTTTTAGGGGCTGCGGAGAGCAGCAGC
AGAGCTGAGTAATGATACAGGGCACCACGGAGAGAAAGTAGAACCATTTCACTCCTGGGA

TABLE 1
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AGATGGGGTATTTCCCACTTCCAGCAACGAAATAACAAATGAAAAGTTGCATACTTATTG
ATGTATTGTATGAGCCAGTAGCATTTTATGTACAAAACAGAAGTCAATGCAACAGTATGT
ATGTGTGCCTGTGTGTGTATAAAAATAACCATTGAAGCTAACTTGCTAATGTACTTAGGC
AAGCCACTTCCCATCTCTGGGCCTCGTCTTTCCTCCCTCTAAAATCAAAGAGCTGAATTA
TGTGATCCTTGAGGTCTCTTCCACTTATAATACCAACTGTCTTGTCAGACTGGCAAATTA
TATTGGCCTCTCCTTATGTGGTGGGTTTTTTTGGGAGGGNCATAGTTNCTTATACACAGG
ACACCTGCATNATCNAAGGGCTTTTTTTTCTAAAAAAAAAAAAAATG

Sequence 1886
CGTCCGCTCCTGAGTAGCTGGGATGACAGGCGTGCACCTGGCAGCTTTTTCAAAGTGTTG
ATGGTAATCTGAGGCAATCTAAGGGAGTCATTTTTTAAGTGACTTTATACAGAAAGATTG
GTAAGAGCCAAGGGGTAGAAGTGGCATAAATGTCTAAAGCAGGGAAGTGACAGGGACTTT
CATTGTTCTTGGCTGAGGAGAAGCGGGAGTGGCTGATGGAAGCACCTAAATGATGCCTTT
GTCTGTGGGAAGGCAAATGATGCCCCAGAGCTCTAACCAAAGGTTTTGCAGCCGCCGAAA
AACAGGAAAGTTGGGAAGCGGGGGTAGGACTACACTGAATCATTAACAGTGCTGTAAACT
ACCCATGTGGCCATTAACAATGGACCTTTGGGGGAGTTTTCCTAAACGATCACTCTGGA

Sequence 1887
CGTCAAACACCCGCAGGCTGTCGATTTCATCATCAAAGAAATCAAGACGATAAGGGCAGC
TCACTCCCCATCGGGAAGAGATCCAGCAACGCGCCGCGCGTGGCGTATTCGCCGTGCTCC
ATCACCTGGTCAACATGGCGATAACCGGCGCTGTCCAGTTGGGTTCGTAATGCATCTCGT
GACAGGCGCTGACCTTTTTTCATCACCAGCGCATGACCGTGGAGAAAACTGTGTGGGCAA
ACGCGCTGCATAAGCGTATTCACCGGAACAATCAGTACGCCACGCTGCATCGTCGGTAGC
TGGTAAAGGGTGGAAAGGCGCGAGGAGATAATGTCCTGATGAGGCGAAAAACTGTCGTAG
GGAAGAGTTTCCCAGTCCGCCAGATTCATCACCATTTGATCGGTAAACTGGCTGATTTCA
TCATGCAAACGCAGAGCATTTTGCATATCTGGTGCAATGAGTACCACCGGACCGGCGTGA
CGTTCGGCA

Sequence 1888
CGCGTCCGTTTATTTTTATGCCCCTTTTTGTGGATAAGATTCTTTAGATAAAATCTAAAG
AATTTTAAGTGACTTTCTCCAGGTCATGAAGATTCAATGGGTAGAATTGAATCAGAATTG
AAATGTTCCAGATTCATATTCTTGTGTGTGTTTGATAAAATTCATGGCTTCCAAAGTAAC
TGAACACTTCCTTTGGGCCCTTGGAGGGAAAATCCATATTTTTACTAATTACACTTTTTT
TTTTAGACATCTGGCAGTTCTTTGAACTTAAACATATTCTCATGGCCATAGTTCCAAATT
AAGCCCGACGCAGTTGCTAAAAATCTTGCTGCACTGTTGAATACTAATAATGCAACATTT
ATTGGATGTTTTTGCATTTTGATGACCTTCATGATTCATTTATAAGTCTTTGTAAGTGCT
TAAGTGACCCCCTCACTAGTGAAAATAATAAATGTTCTATATCATTTATTATTATTTGTG
TATTCTCTACATGATATATTTTTTT

Sequence 1889
CCGCGTCCGGGAGGATGGACGTACTGGTGTCTGAGTGCTCCGCGCGGCTGCTGCAGCAGG
AAGAAGAGATTAAATCTCTGACTGCTGAAATTGACCCGGTTGAAAAACTGTGGCTGTTTA
GGAGCTTCTCCAAATTTGGAGCAGTTACAAGAAGAAAATTTAAAATAAAGTATCGACTGA
ATATTCTTCGAAAGAGTCTTCAGGCAGAAAGGAACAAACCAACTAAAAATATGATTAACA
TTATTAGCCGCCTACAAGAGGTCTTTGGTCATGCAATTAAGGCTGCATATCCAGATTTGG
AAAATCCTCCTCTGCTAGTGACACCAAGTCAGCAGGCCAAGTTTGGGGACTATCAGTGTA
ATAGTGCTATGGGTATTTCTCAGATGCTCAAAACCAAGGAACAGAAAGTTAATCCAAGAG
AAATTGCTGAAAACATTACCAAACACCTCCCAGACAATGAATGTATTGAAAAAGTTGAAA
TTGCTGGTCCTGGTTTTATTAATGTCCACTTAAGAAAGGA

Sequence 1890
CGCCCCGCGTCCGCTAATTATAAGCTTTACAAGTATTTATTTTATAAGGCTTAGACAGAA
TTATTGGAGTTTTAAATTAAGTGTATTGGAAAAGAAAGGATGGTATGTGTATGAAATGTT
AAGATCCTACGCAACACTGCTATTTTTTTCCTTTAATATTTGTGCTGCATAACAAAAGCC
ACTAGACTGTTACTGTCTTGTCTGTCCATGTGTTAACAGCATTTCTTAATGATGTATATA
TGGAGTGGTCTTCAATCATAGTGAAGAATTTAAAGAGAAAGTCAATTGTATTGGCATTTT

TABLE 1

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TAATAAGAACAAAATTAGTTCGTCTAAGGGGACTGGCTGGCCACATATTTGTTCCTTGCC
CATATGCTTTCTACTTCTTGTTCTTATTATGAAATTATGAATTTGAAGCCTCTGAAATGG
TGATCAGTTTTCAACATCTTTCAAAAACAAAATTACTA

Sequence 1891

GCGTCCGCGGCTGCTGTGTGTGAGCAGTGGACACGTGAGGGGGGGGTGGGTGAGAGAGAC
AGGCAGCTCGGATTCAACTACCTTAGATAATATTTCTGAAAACCTACCAGCCAGAGGGTA
GGGCACAAAGATGGATGTAATGCACTTTGGGAGGCCAAGGCGGGAGGATTGCTTTGAGCC
CAGGAGTTCAAGACCAGCCTGGGCAACATACCAAGACCCCCGTCTCTTTAAAAATATATA
TATTTTAAATATACTTAAATATATATTTCTAATATCTTTAAATATATATATATATTTTAA
AGACCAATTTATGGGAGAATTGCACACAGATGTGAAATGAATGTAATCTAATAGAAGCCT
AATCAGCCCCCATGTTCTCCACTGAAAAATCCTCTTTTTTGGGGGGTTTTCTTTCTTTCT
TTTTTGAATTTGCACTGGACGGNGGACCGTCAGCCATGTNCAAGGATCCCCAGGGGGGGG
GNNGTCAAAATGGCTATTGGAAAATTGGGGTGGAAATGNATGCCTTTTTCACTTTTTGGA
TAAATAAAACATGTAAAAAAATGNTTTCAAAAAAAATTAATTAAAATTAAATTAAATTCC
NNAAAAAAAAAAAAAAA

Sequence 1892

AGAGGATTCCCAGGGTTTCCAGGGGGCCAAAGGAGACAAAGGTTCAAAGGGTGAGGTGGG
TTTCCCAGGATTAGCCGGGAGCCCAGGAATTCCTGGATCCAAAGGAGAGCAAGGATTCAT
GGGTCCTCCGGGGCCCCAGGGACAGCCCGGGGTTACCGGGATCCCCAGGCCATGCCACGG
AGGGGCCCAAAGGAGACCGCGGACCTCANGGCCAGCCTGGCCTGCCAGGACTTCCGGGAC
CCATGGGGCCTCCAGGGCTTCCTGGGATTGATGGAGTTAAAAGGTGACAAAGGAAATCCA

Sequence 1893

TCCGCCCCGCGTCCGCTTTTTCCNAACAAGGAGCATCCAAAGACACAGTGACTTGAGCTA
TAGATAGTAAAAATCATACGAGAGTTGAACTGAGTCAGGTTTAGGAAGCAAGTTTGGTTG
CATCAATTAAGCAGGCTCTTTTCAATTGACTGATGCTGGGGCCTTCAGTTTTATTCTCAG
TATAGATTGCCAGTATTGTTAAGAGTATCCAAAGGCCTTTCTAGATGGAGACAGAATAAC
TGACTTGAACATACAGTGTGCCTGTAAGTGTCCAGGCTCAGAGCTGGTGAAAACCCTTCT
GTTGGGCGTGTGCAGGGTTAAACTCCTGAAGTAACTTGTGAGGACTTCAGTGCTTGCTGG
TGTCCTGGGCAGCACCATGAATGCCTTTACCAAGACATGCCAAGTTGGATCCCCCGAATG
AAGCAAGAGTGGCTTGTGGGTGTGACCCTTGCTCCCTGCTACACAGAAGCATCGCAAGGG
CTGCCTGTGTNGGTTTCCAGATGAAGGGTCTTGGGTCCCGGAAGCTTTGTGGTTGAGAGC
TCAAGTGGGACC

Sequence 1894

GTCACCACGCGTCCGCGGACGCGTGGGCGCACGCCGGCGGCGCGGAGGCCGGCTCTGCGC
TTCGGGCCGCCCCCTCCCCCCACCCCGCTCACACCCGGCACTTACTTCGGCTGTCTCCGC
TGCCCTCCAGCGGAGACGCAGCTCCTCAGGCGCCCGGCGGTATTTGTTGGGTCGGCGGCG
TCAGGGATTCGCAGTGGCCTGTGGTCGGCGTCGTCCGGCCACTGGTGCGCCCCCGCGGCA
GGCAGAGCTCACGCTCCTGTCCCCCGGCTGGTCCGGGGTCTGGGCGCCGCGTCGACGGCG
GCTCCGCAGGACGCGCAGACCGGGCCGCAGCCCATGCC

Sequence 1895

NCCCCGCGTCCGATTTAAATGCCCTAAATTTTAAATTCATACCTTTCCATGATTCAAAAT
TCAAAAGATCCCATGGGAGATGGTTGGAAAATCTCCACTTCATCCTCCAAGCCATTCAAG
TTTCCTTTCCAGAAGCAACTGCTACTGCCTTTCATTCATATGTTCTTCTAAAGATAGTCT
ACATTTGGAAATGTATGTTAAAAGCACGTATTTTTAAAATTTTTTTCCTAAATAGTAACA
CATTGTATGTCTGCTGTGTACTTTGCTATTTTTATTTATTTTAGTGTTTCTTATATAGCA
GATGGAATGAATTTGAAGTTCCCAGGGCTGAGGATCCATGCCTTCTTTGTTTCTAAGTTA
TCTTTCCCATAGCTTTTCATTATCTTTC

Sequence 1896

CGACCCACGCGTCCGCCCNGCGTCCGAGGGGCAACAGCAGAGCCTACAGCAGGGGGCACA
CTCCACCGGNTCCAGCCGCCTGCACGACCTCTACTGGCAGGCCATGAAAACCCTGGGAGT

TABLE 1

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CCAGCGCCCCAAGTTGGAGAAGAAGGATGCCAAGGAGATCCCCAGTGCCACCCAGAGCCC
CATCAGTAAGAAGCGGAAGAAAAAGGGATTCTTGCCAGAGACGAAGAAGCGCAAGAAACG
CAAGTCAGAGGATGGCACGCCAGCGGAGGATGGCACACCTGCAGCCACCGGCGGGAGCCA
GCCCCCCAGCATGGGCAGGAAGAAGAGGAACAGGACAAAGGCTAAGGTCCCAGCCCAGGC
AAACGGGACGCCAACCACCAAGAGTCCAGCCCCTGGCGCCCCCAC

Sequence 1897

ATTATATACTTCTGAATGGCACCTTACTTTTTGGAAACAAATCTTCTGTTATTTACAAAA
TAATAATTTTTAAAAAACATAAAAAAAAAATCCAAAGCTGCTCTCGATAATAGTCAACAT
TTGCATATATATGGAATTTCTTACTTTTTTTCTCCCAAACTCTATTTAATAAACTTATTT
TAATGTTTGTGTATTTCATGTATAATTGTGATCTCAATTATAAAAGTTTAATTCAGCATG
TCTTTGAGCCAATATAATTACTGCACACCCACTAAATTGGGATCAGCCATTATAAATAAT
GTAGTTTTAGAATAATAAAACATGACACATATATATATATATAAATATATAGTATATATT
GGCACATCGGTGAAAGTTTAATATGTGCAGGAAGGTTTTTTTCTTTCTTCAAGTTAAAAA
TTATTTTTTGCCATATGTAATTTTGGTGTTGCAGGCTGGTCGAGAGGATAAAAAATGGAT
TTTAAATCTGGGTACCGGATGGATCTTTCNGGNGGTTAAGAAACACAGGGGNTGNGGACC
TTCCTTTTT

Sequence 1898

CCGCGTCCGAATATAGTATTTTTTAATTTTTGTGGGGATGGATTCTCAAATACTTGTGAT
TTTAAAAGATTCTAAAGCTAAAACACAACTTGATTTTAAAAAGAATGATTCTCCTTACAC
AATTATAAATATTTGCAGTAAATATTTTCCTTATAATACTGTTTTGACCCCATTTAAAAA
GTATTAGATTATATTCCTTTGATCCAATGAAAACTGAACCTTATAAATGGTTAGCTGAAA
GTAGACCTTATTCTTGTCCTTCTTTAGAAGAGTAAAGATTTGTCCTAGGGAAGATGGCTG
ACTTCGGTTCCCAACATGCCGTATGCATTTAGACTGTAGCTCCTCAGCCCTGTGGACACA
AAATTTGGACAGCTTATTAGGNTACCGTTAGCAATGCTGGACCGGTTTCTTCAACACTAA
AGANTTTCACCGTTGNAACAGATTTCCTGGTTCGTCTNATGGGGNCTGGTAAAAATGGT

Sequence 1899

GCCCTGGAGGCTACTTGTAAATCCTTAGAAGAAAAGCTGGATCTGGTCACGAACAAGCAG
CACAGCCCCATCCAGGTTCCCATGGTGGCCGGCTCCCCTCTCGGGGCAACCCAGACGTGC
AACAAAGTGCGATGCGCTGTGCCTGGGCGTCGGCAGAACACCATTGTGGTGAAGGTGCCG
GGCCAAGAAGACAGNCACCACGAGGACGGGGAGAGCGGCTCGGAGGCCAGCGACTCTGTG
TCCAGCTGTGGGCAGGCGGGCAGTCAGAGCATNGGGAGCAACGTCACGCTCATCACCCTG
AACTCGGAAGAGGACTACCCCAATGGCACCTGGCTGGGCGACGAGAACAACCCC

Sequence 1900

NCCACGCGTCCGCCCCGCGTCCGGGCCCGGCGCGCCTGCTCTGGGCTCTCCGCGTGCCGC
ATCGCTTTCTTTTCTTCCTCTGGAGCAGCTATGGCGGCGGCGAAGACCCTGAACCCCAAG
GCCAAGGTGGCCGGAGCGCAGGCGGCGCTGGCGTTCAACATTAGCGGGGCGCGGGGTCTG
CAGGACGTGCTGAGGACCAACCTGGGGCCCAAAGGGACCATAAAGATGGCCTTCATCCCA
GAATAATCACTGAAGGATTTGAAGCTGTGAAGGAAAAGCCCTTCATTTTTTGGAAGAAGT
CAAAGTAAGCAGAGAGATGGACAAGGAAAC

Sequence 1901

CCACGCGTCCGCCCCGCGTCCGAAACATGAGGTTCTCTCTACTGGTCCTCTTAACTGTGG
TGTTGAGGCTTATATTTGTGTAATTTTTGGTGGGTGAAAGGAATTTTGCTAAGTAAATCT
CTTCTGTGTTTGAACTGAAGTCTGTATTGTAACTATGTTTAAAGTAATTGTTCCAGAGAC
AAATATTTCTAGACACTTTTTCTTTACAAACAAAAGCATTCGGAGGGAGGGGGATGGTGA
CTGAGATGAGAGGGGAGAGCTGAACAGA

Sequence 1902

GTCGCCCCGCGTCCGCCCTCCCTGGCAAATAATATAATAACCCGTGAATTTTCAGGAATT
TAAAAATTANGCTTTTTTCCACTTAAAGGAGAAAAATATTTGGGACTAGCAGCAGAGGCA
GTAAGAGATGTGAACCTTGGTGAGCTCTGATACAGTGAGAAGAGATTATACTCATGAAAG
AGAATGTTAGTGTTACAGAGAAGCAGCCGATAGCAAATCGACTGTAGAGACTTGGCGGCG
GTGGCATTGCCCCAGGTCGTCAGCAGTGTGGTATTATCTATGAGAACTTGAGCGACAGAG

TABLE 1

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TATTTCTTGATGAATTTATAGATCATTTGAGATGTTGAGTTACTTTAGTTTAGTTTTGTT
TTGTTTTTTCAAATAAGTAGAGACTATTTGTAAAAAACGAGGAAAGGGAAATGAAATGGG
GCGTGTTTGATAGCAATAAATTTGGTTTCTTTTTAAAGAATTCTAAAAAGGGTCTGAGAC
CCTGNTAGCATTAATTTTTTGAGTGCCCTTCCTTTTTNCCCTTCCCCTCCCTTTTTNTTT
TTCTCT

Sequence 1903

GCGTCCGCCCCGCGTCCGGGAAACCCCCTTCGATGACCTCCAGAGCCTCCCAAACGACGT
GATCTCTTCCCTGAAGAACAGGCTGAAAAAGGTCTCCACAACCACTGGGGATGGTGTGGC
CAGAGCGTTCCTCAAGGCCCAGGCTGCTTTCTTCGGTAGCTACCGAAACGCTCTGAAAAT
CGAGCCGGAGGAGCCGATCACTTTCTGTGAGGAAGCCTTCGTGTCCCACTACCGCTCCGG
AGCCATGAGGCAGTTCCTGCAGAACGCCACACAGCTGCAGCTCTTCAAGCAGTTTATTGA
TGGTCGATTAGATCTTCTCAATTCCGGCGAAGGTTTCAGTGATGTTTTTGAAGAGGAAAT
CAACATGGGCGAGTACGCTGGCAGTGACAAACTGTACCATCAGTGGCTCTCCACTGTCCG
GAAAGGGAAGTGGAGCAATTCTGAATACTGTAAAGACCAAAGCAA

Sequence 1904

CGTACGGGGTGCGGTTGGCGGCGGCGGCTGGGCCGGGGGCTGCCGGCTGCGCTCGGGCCG
TGCGCGGCGGCCGTGCGGNCACGCCATGGACTTCAACATGAAGAAGCTGGCGTCGGACGC
GGGCATCTTCTTCACCCNGGCGGNGCAGTTNACGGAGGAGAAATTTGGCCAGNCTGAGAA
GACTGAGCTTGATGCCCACTTTGAAAACCTTCTGGCCCGGGCAGACAGNACCAAGAACTG
GACAGAGAAGATCTTGAGGCAGACAGAGGTTCTGCTGNAGCCCAACCCCAGTGCCACGAG
TGGAGGAGTTCCTGTATGAGAAGCTGGACAGGAAGGNCCCCTCAAGGGTCACCAACGG

Sequence 1905

CNCGCGTCCGGTGCATCTTGCCCATTGATTTCTAAATGTATTAACTACTTAAATTAATCC
TGAATCTTTTCCCAGGCTTAAGTGGGATAATGTTTTATTGTAGATGCATATTTCCTGGCT
CTACCCAGTCTTTCTTTGAAGACTTTATCATCCTATTTTCTGAATCCAGTGGCTGACTTT
AATCTTCTCTGGAGGAACTAGATAATTTCTAGACTAATGCTTACACTCATGATCCAGATT
GTAATTTCTGAACTCCTTCTTCCAAATAGAATCAAAACAAGAAAGGGGAAAGCCTCTCAA
AGCAACTGTGCGTTAATAATGAAACACTCTTTTTTTCTAATCCAAGGAGGGTTTCATACT
TTTTCTTAGTTTCTTGCCCTCTTCCCTTCTGATCAATAATTGTAATAGGGAAATTTGCAA
TTGTGCCAATACTCAGATTCAATACTGAACTACTTTCTTGCATTGGAATTCAAATTCCAA
GGTTAACAACTAGCTGTATGTTTCCAAAACAATCTTATTGGATATGGATTTTCTTAGGGG
GAAGGTTCCAGAAATGATTT

Sequence 1906

GANCAGGCTCAAGAGCAACATGGAGGTCTGCACTTAATCGCTCCTCTCCGGGGGCGGCCA
TACCGAGGAGGCGTCTCTTCCGTGCAGGCAGGCTCTCCTGGGGACCTCAGAGATTCTCTC
CAGCGGCAGCGGAAAACGGACAATGGGTGGATTCGGGTCCAGATTCTGGTAGGAGGGAGT
TTGGGATCGAGATCTGGAAAAAAGCACTAGACTGGAAGAGGACGCGATGGAGTCGGAGCC
GCTGGCGGGGACAAAAACCAGAGGCCGGGGAAGGCGCCGGTGGGAGGCAAGGCACGGATG
GACTTTACCTGCGCACGCGTCGCAGCCATCTCCGCGCACAGTGGTGGCCACCGCGACTGG
TGCTGAAGTGTTGGCCGCGTGCCGGGCGCTCCGCTGGGACCCGGGTTGCTGGCCCTGAGT
CTCAGCTTTCTCATCTGTACGGTTGGGACAAGTACAGTAACCCTCTCCCGTCAAGACGGG
CC

Sequence 1907

GTCGACCNCGCGTCCGAACATCGTCAACTACGGCATCCCAGCCCACCGTGACATCGACGA
GTGCATGTTGTTCGGGTCGGAGATTTGCAAGGAGGGCAAGTGCGTGAACACGCAGCCTGG
CTACGAGTGCTACTGCAAGCAGGGCTTCTACTACGACGGGAACCTGCTGGAATGCGTGGA
CGTGGACGAGTGCCTGGACGAGTCCAACTGCCGGAACGGAGTGTGTGAGAACACGCGCGG
CGGCTACCGCTGTGCCTGCACGCCCCCTGCCGAGTACAGTCCCGCGCAGCGCCAGTGCCT
GAGCCCGGAAGAGATGGGACGTGGACGAGTGCCAGGACCCGGCAGCCTGCCGCCCTGGCC
GCTGCGTCAACCTGCCGGGCTCCTACCGTGNGAAGTGTCGCCCGCCTTGGGTGCCCGGGC
CCTCCGGCCGNGATTGCCAGCTCCCGAGAGCCCGGCCGAGCGTGCCCCGGAGCGGGCCGA

TABLE 1

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ACGTGTGCTGGAACCACGCGGAAGAGGACGGNATGTGCCCTTGCCCCCTGGCCCGGGCC

Sequence 1908

ACCACGCGTCCGGGCGGCCCGGCCAGGCCCCCGGCACTTCCTCGTCCTCGGCCCGGGTGC
CCTGCCCCCGTCCAGGAGCCCTAGGAGTGCTACGGGGGGCCGGAGCCTTGCCCGGGCCGC
TGCCCCGTCCCTGGATTCGGGGCTGGACGCAGCAAGCAGGNGCGCTGTGTCCCCAAGCTC
CCCGTCCTCGGGGGAGCTTTTGGAAGAGTCCCAGATGGAAGCGACCAGGCTCCGGCAGAA
GGCAGAGGAGCTAGTGAAGGACAACGAGCTGCTCCCACCACCTTNTCCCTCCTTGGGCTC
CTTCGACCCCCTGGCTGANCTCACAGGAAAGGACTCAAATGTCACAGCATCTCCCACAGN
CCCTGCATGCC

Sequence 1909

ACGCGTCCGGAAGGGTGTTACATGTGTCTCTTCAATACCTTTGGTTTTGGGAAGATCTCA
GGAACGGCCTGCCTCACCGTCTATGTACAGCCCATAGTATCCCTTCACTACAAATTCTCT
GAAGACCACCTAAATATCACTTGCTCTGCCACTGCCCGCCCAGCCCCCATGGTCTTCTGG
AAGGTCCCTCGGTCAGGGATTGAAAATAGTACAGTGACTCTGTCTCACCCAAATGGGACC
ACGTCTGTTACCAGCATCCTCCATATCAAAGACCCTAAGAATCAGGTGGGGAAGGAGGTG
ATCTGCCAGGTGCTGCACCTGGGGACTGTGACCGACTTTAAGCAAACCGTCAACAAAGGC
TATTGGTTTTCAGTTCCGCTATTGCTAAGCATTGTTTCCCTGGTAATTCTTCTCGTCCTA
ATCTCAATCTTACTGTACTGGGAAACGTCACCGGAATCAGGACCGAGAGCCCTAAATAAG
TCACACAGCACCCTTGAAAGGGGATTCCTGGNCTACTTGGATTTGGCACAAGAGAAAAAG
CAGGAGGGAAAGG

Sequence 1910

GCGTCCGCTAGTTCTAGATCGCGAGCGGCTGCCCTTTTTTCTTTTCTTTTTTTTTTTTTT
TGAGACACAGTCTCACTCTGTCACCAGGCTAGAGTGCAGTGGCACGATCTCAGCTCACTG
CAACCTCTGCCTCCCAGGTTCAAGTAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGAC
TACAGGCACGTGCCACCACGCCCAGCTAATTTTTGTATTTTTAGCAGAGATGGGGTTTCA
CCACATTGGCCAGGATGGTCTCGATCTCAACCTCGTGATCCACCCACCTCGGTCTCCCAA
AGCGCTGGGATTACAGGCGTGAGCCACCGCGCCAAGCCAAGGTCTGCATTTTTCTTTAGA
ACTCAGAACACCCAATAGTCCTAGGCCCCCATCCTCGCATGGCAGCAAGCTAAATAAGCA
TNTTCCCACTGCGAGTTGGGG

Sequence 1911

GTCCGCTGAGAATGGATAATCTCACTGCAGGTATTCCATAATAGGCTTGGATTAAAACCA
GGGACAATGGGCAGCAATAGGCCATAGGTTAAGCAGCAGCAACTAGTCACCACTGGACTG
TCTTCTTCTCCCCTTCCCCATATCCCACATTCTCCTAAACATGATGTACGTGTAGCAACA
GTCTTTTAAAGTCAGATGGTCAGACTAATTATTTTTACAATTTAAGTGTAAGTGATGTAC
ATGAATGGACTCTGTGAATCGGAAAACTTACGTAACAGCAGAGAATACGTATGTTATATG
GAATAACCTGAGTTGAAGGTACAATTTTTTTTTCCAGCTCTTTTATTCCTTTAACTGCTTA
ACAAAAGAAAGAGTCTCCAAAGTTTAAAAAACCTTTGAAAAATATACAGCTTGATATTAT
TTACATAAAATATGAATCCAGGTTCCAATATCAAACAAACATTGCTATGTCAGAAACACA
GTGGAAGGCAGGAACGTAACTCACTGCCTTTTAGAT

Sequence 1912

CCCGCGTCCGCTCTTTTCTTCTCTNTAAAGTGAATTATTCCTTTTTTTTTGTTTTATGTAA
CGTGTATATATTCTTAGTTTTTCTTGAAATCATTGTAATGTTAACTTTGTTGTTTCAAAT
ATCTTGGTGATTGCTTCATTATCTCTTCAACAAAAAAAAACCTTTAATTTTGCCATTGAAA
CTGTAGAACTATGCCATGCTTTTATTAGAAGCAGTGCTCTGTGTTAACAACAAGAATGGT
GTAATTAGAATTGGGATGTGGATATTTACTGTATGACAACACATTTACAGTTCTGTAATG
CAAGGATGCAGTTTAAAAATGTGAAGTAGTGATGGTTTTTGAAATAAGCTTTAAAATATA
GGGGATCTTGAAGGCTCCCTGGGGTAACTATTTTATAACTTAGATAAAATGGCTAGTCAT
ATCTGTGTGGTTTGNAAAGGTTATTTTTTTAATATTTTAAGATTACAATTTTACAAATGT
AGAAATGAGCCCAACTATTTAAATTTTAAAACAGTAAAAACAAA

Sequence 1913

CGACCCACGCGTCCGCTTTGAAGCAGGAAAAGACACGTCTCTAGAGCAACATGGAAAGGA

TABLE 1

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TCCAGTATTTGTTTTCAGGCAAAAGCAAGCCTCCAAAAGCCCCTTGGTTCTTCTCTGTGT
GTCTCGCCCCTTCTGCCTTGTACACCAGACTGCCGGCAAGCAAGCGGGGAGGTGGCGAAC
AGCTGGGATCCTCCAGTGAAAAGTTTGCTCAGCGCGAGAGATGTCAAGAGGCTGGGATTG
TCGCCTATCGGGAGGTGGGGAGCTCTCTCACTCACACTTCCTGGGAAATGAAGGAGAACT
AATAGGCAGCCCGCATTTGCAGCCAGCCAACCTGGGTGGTATTCCTTGAAGTGAAGCGCT
CATAAATCCCTTCTGGGGCCAGAGCCGGTTTCACAAGCTGCAGGATTTGGGTGGCCTGCC
TGCTCTTTGGGAGCGGGCTTGGGAAGCTGAAGAAATTGAATCAGGACCTCAGGCCCTTTA
CAGACTCCC

Sequence 1914

CGCGTCCGCCCCGCGTCCGCTCAGAAACCCCTGCCCTTTCCCTTCAGAAAACGATGGCAG
GCATTCCTCTGAGTTTACAAGCAGAGACTCACTCCAACCCAAACTAGCTGGGAGTTCAGA
ACCATGGTGGAATAAAGAAATGTGCATCTGGTCTCTTCTGTTGTTTTTATTTCATATCAG
ATTAAATTTCTTTACCATGTTGGCTAAGTCTAAATATTAGAGATGAGGCTGTGCCTACTC
CCTGGCCAGCTCTGCTGATAGCCTATGATGGGTTCCAATGGGAAATGACTCTTTACTATT
AAAAGACAAGGAAAGCTCTGACTTCGTACTTCTCTGATGAATGGCAATGTAAATGAACAA
GGCTCCATGTGACTGGAGCATGGAAGTGAATGCTACTTTCTTAATTTAATCTGCCCTGTC
CTACCTGCTCCTCTGATTGTTAGCCATCACATAACTTATTGAATGCTTGCCATGTGCCAG
GCACTGTGCTGAGTGCCATACATACATTTCATTTAATTATCCAATAATCCTACTTACTA

Sequence 1915

CCGCGTCCGATTCTNTAACATCTCTGTGAGGAAGGAATTTTTATCCTTATTTTACAGATG
AGGAAGCTGTTTGGAGATAATTTAAGTGACTTGCCTGGGGAATCTAGCCAGTAGTAGAGT
ACTGATTAATCAGGTGCTGACATCTGCTCTGCTTTGTGTATGTAATTCAGCAGTGCTTCA
AAGATCCAAGAAGCTGTAGCAGATCTCAATACACTCTCCTATAAAATTAGTGAATAATCA
CCATGACAAAATTGGTATGGCGGAACAGTCATTATACATTATTTAGACTCATTCCTTCTT
CCAGTGCCCTTATGATTATTTCCTACCTTTACCATTGG

Sequence 1916

CCNCGCGTCCGCCCCGCGTCCGCCCCGCGTCCGATATTGCTTCAGAAAACTGAATGTGTA
TGTCGGTCATATTGCCTTTATAACCATGCTAATATCTATGCTTTATACATACTCAAACTT
GCCTTGCCTTAAAAAAATACATACTACATACTTAAATCAGGAATTCTAGCCATCTCACAG
AATACCAACTAAAACTAAGTGCATTGAGATCTGAGATTGGTAAACCCAGATTCATTTACC
ACAGCTGTAATTAAGTTTTTAGAAACTATTCTCTTTTTGGGGAAATCCATTGAAGTTAAT
TTCTGTTATCTTATTAGAAGAAAATGATGTTGATATGTGTTTCAGATTTTCCATTTGAAA
TCTTATAATTAATTTGATTTATTTACTGTAAGTAGGAGGTATNAATGACACTCTTAAATT
GGAAGGAGGGGTGTTTTAGTGTCTGTNTTAGGTCAAAATTAGTGATTCTATTTTTATCAA
AAGTTTTATCCTGAAGTTTCAGGACCACTCTTCCTTAATNAACTTGTTAATGGGAAGCGA
GCCTTATGAACATTTAAAAAT

Sequence 1917

CGCGTCCGCAGCAGTAATCCTTTAATAACTGGCACGAGCACTTTATTCTTCTGGTGAGCT
CCCTGAATATTTATTTTTCTGATTATAAATTTTCTATATTAGTAGCATTTTTTAATTATT
ACTTCTTCACTATAGAGCATTTACTTTTAGTCTCTAGATGTATATTTTGGAATGCTGTAC
TTGGCATAACATAGATTAAAATCATAATGCATGACTAAAAACTCCTTGGATTTATTTCCC
ATTTTAAAATTTTTAGCGGTAAGTTCAGATTTATAATCTTTCTCTAGACTTCCATGGTCT
GAATGTTGCCTGCTGAAGTAGCAACCTAAAAAGTATCCCCTGCTTATGCTTCTCCAGTTG
GCCCTCCATGTCCATAGGCTTCGCATCTGTGATTCAGCCCACTGTGGGTCAAAAATATTT
GGGGAAAA

Sequence 1918

GCCCGCGTCCGCATCCCTTGTATACCATCGTAGACTTCATACTGGAGAGAAACCTTACAA
ATGTGAAGAATGTGATGAAGCTTTCAGTTTCAAATCGAACCTTGAAAGACATAGGAGAAT
TCATACTGGAGAGAAACCTTACAAGTGTAATGATTGTGGCAAGACCTTCAGTCAGACATC
ATCCCTTGTATACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATG
TGATGAAGCTTTCAGTTTCAAATCAAACCTTGAAAGACATAGGATAATTCATACTGGAGA

TABLE 1

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GAAACTTTACAAGTGTAATGAATGTGGCAAGACCTTTAGTCGGAAGTC

Sequence 1919

NGACCNCGCGTCCGCGCTCCGCTGCCNGGGGCGGGAGGGAGGAATGGTTGCTTCACGCCC
CGGGGGAAGAGACNGGAAGCTCGGCTCTGGGTTGCGGGCCCCGGGGTCTCCGCGTGGGGC
GCACCGTCCGACCCGCCCCTCCCGGTGTGCAGCGCCCCGCACCGCCCCGCCTTGCCTGGG
AGAAGCCCGGCGGGACGCGCCGGGCTGGAGTGGGCGGTTATAGGCTTTGAGCTAGGCCGC
TTCCGGGAGGCGGAGCTCACACCCCATTTCCTTT

Sequence 1920

GTCCGTTCCTTGATTCCTGGAAGTCCAGTGGGTTCTGCAGCTGAAAAAGCCCTGGGTCCC
AGCAGCAGAGAGACAGGACAGAGGGGATGCTTGGGCGGGGAGGGACGGTAACCTGCAGAA
CAGATTCCATTTTTATAGAACGAGTACACGTTTGCTAAAACAGTCCTGCTTTCCCAGACT
GGATTCCCACCACAGGGACAGTCGGAACTCAGGACTAGCTCCAGCGACATCTTTCCTCCG
AATTCAAGCCTTCTATCACAATGTCAAAACAGCTATTTATAAAGCCATTTTCATTGTACT
TGATAACAGCACGAGTCCCAAAACTTTTAGAAATAAAATAGGACATTGGCTTGATTGAAA
AGAGGGACTTTTTAAAAATTGTTCTTTCGTCAGAAAGCCTTTTGGATGACT

Sequence 1921

GCGTCCGAAAAAAATAGCATTATACCTCTTCCTTGTCTCAACCGCCATGAAAATTCTGAA
CACTCCAAATTCAGTTGAATAATCCAAAACAAAATTTATAAGTATAAAATAATTTTACTT
CTTATAGTAATAGTATACTTTAAAAAGCCTCAGGGTATATTATCTTCTAAACAGCTACAA
TTCAGTGCAGCTACATTAACCAACTATGTTCTCTAGTTGAGAACAACTAGGCCTATTTCA
CTGCTGTGTAGCCTCAGTGCCTAACATGGGTGCCAAATAAATATTCGTAGAATTACACTG
AATTGTAAAAACCATTCGTTTTTGTTTACAATTGCCAAAAATCTCAAAAGGCCCTGTATT
TATGTAATTCTTTGAAATTATTATTTTATTTTGATTTCTCAGTTATTGACTGGTGGGGTG
TGACTTAGTCATAAGTACTCAATATTATAAAAACCTCAAATAATTGACTTGGATTTTACA
CAACATCCTTCCCTTTTCTACAAGTTAAATTTTTTTACC

Sequence 1922

TTGGTATTCTTGGCTAATTTCTTAGCTACTTGAAGGTTAATTTGCAAGACTTTTAAAACC
TTAGAAAAGTTTTAAGGTTGCAAAGTTATCAACACTGGGGCAGAGGGTGGAGAGGCCAAT
GCGGGTAGAAGGAGGCAGTTATGTTTATATTGAAGGTGAAATTTTTCTTTCATTTAGAAT
GGAAAACATCCCCAAATGTATCATTATAAACTAGTCAGCCTTGACTACACAAAATTGACC
TTTAAGTTGCTTGAGAAAAACACAATGCAAATCGTTCAGAAGGGTCAACATCCTTTGGTG
CTAAAATCTTGTGTATGTTTTCAGAATGGCTTTTTCTGTATGTTATAGAATAATCACTAA
AGGAAAGGTAGTTGAATTTAAAGTCATGAAGCAAGACTCTTTAATTCAGTTATTTTAAAC
AAGAATTAAAACCCCAAACATCCTTGGCAGGCTTTGAAGCACACAGAATTTTCTAGNATT
TCTTATTA

Sequence 1923

CNCCGCCGGAACAACAACAGAAAGCTGTGTTTGTCTTTTTTCTCTCAAATATATCTCCCG
TATGAGATTTCAGGTCCCCATGTTTTCACCAAGCAATCTGCTATGTCAGCCAACCCANCA
TCACTTTCTACAGGAGGTTATGATTTTTGCCATTTACTAGAGGAAGATGTTTTATGAAAT
CAAGTTGGGGTTTGAATTCAGGTGCAGTCATCAGTTCTTTAGGGGCTGCAATGTTTTAAA
AAAAAATAAGTCATCAGATTTTAAGAAAAAAGTGATGATTTCTTATTGATATTTTTGTAA
CAGAATATAGGCTCTTAACTGAAAATCCAGAACCAGAAACATAAATCTTGAGTTTCTTTT
CATGTACATAAAAAGCAATAGCCGTTTTAGTATAGGATAGCCCTGAGCCCAAAAAGTAAT
AGAAATTTTCTCTAGATATTTTAATACAGAGAGTGTATAGACTGACTCTAAGTTAATAAA
TGTGCAAAAATATCTTAAAACCATNCCCTNCCCTTTATTTCAAC

Sequence 1924

CCNCAAAAAGGAACCAGAGGCCACTTGTATATATATGGTCTCTTCAGCATTTATTGGTGG
CAGAAGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCCGAACAGCTGA
GAATTGCACTGCAACCATGAGTGAGAACAATAAGAATTCCTTGGAGAGCAGCCTACGGCA
ACTAAAATGCCATTTCACCTGGAACTTGATGGAGGGAGAAAACTCCTTGGATGATTTTGA
AAGACAAAGTATTTTACCGGACTGAGTTTCAGAATCGTGAATTCAAAGCCACAATGTGCA

TABLE 1

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ACCTACTGGCCTATCTAAAGCACCTCAAAGGGCAAAACGAGGCAACCCTGGAATGCTTCG
TAAAGCTGAAGAGTTAATCCAGCAAGAGCATGCTGNCCAGGCAGAAATCAAGAANTCTGG
TCACCTGGGGAAACTAT

Sequence 1925

CCACGCGTCCGTCCGCCTCCAGCAGCATCCGCTTCAGCAAGGCCTGCCTGAAGAACGTCT
TCTCGGTCCTACTCATCTTCATCTACCTGCTGCTCATGGCTGTGGCCGTCTTCCTGGTCT
ACCGGACCATCACAGACTTTCGTGAGAAACTCAAGCACCCTGTCATGTCTGTGTCTTACA
AGGAAGTGGATCGCTATGATGCCCCAGGTATTGCCTTGTACCCCGNTCAGGCCCAAGTTG
CTCAAGCTGTAAGCACCATTTACGAGGTCATTCCTCCTCTGACAAGCCCTGGCCAGCCGG
GTGACATGAATTGCACCACCCAGAGGATCAACTACACGGACCCCTTCTCCAATCAGACTG
TGAAATCTGCCCTGATTGTCCAGGGGCCCCGGGAAGTGAAAAAGCGGGAGCTGGTCTTNC
TCCAGTTCCGCCTGAACAAGAATAGTGAGGACTTTNAGCCGCCATTGAT

Sequence 1926

GCGTCCGGTAAGTATTTTGGAATTCAACCCTCGAATTATTTTTTCTCATTTCAGCATAGT
GATAGGGGATGCAATGAGGCTTCATTATTTTTTATGACCTGCCCCTCATTTGCTCTGATG
TTCCCTAAATTCTGTAATCATATCATAACTTTTGTTATGAATAGAGAGGAATGGGCTCAC
TGAAACCTGACACTAGAAATTGGTGGGTGATGCTCATAACTGCAAACACTTAGCTTATTG
AAGTGCCTCTATTTACATGTTCTTTAGTTATAATATGTATTTTTCTAACAGAAATACACG
TCTGTAATTGGTATATATTATACTTTGTATGTGTCACAACAAAAGCTAAACAGAGGCTAA
AGTCTTTAGCAGAGAAGAATGAATTN

Sequence 1927

AACTGTTTGGGAAAATACGTTGAGGGAGAGAAGACCTTGGGCCAAGATGCTAAATGGGAA
TGCAAAAGCTTGAGCTGCTCTGCAAGAGAAAATAAGCANGACAGAGGGATTTGCTCTGGA
CAGANATGGAAGAGCCNGGGAACAGAGAAGTGTGGGGAAGAGATAGGAACCAGCANGATG
GCAGGGGCAAAGGGCTCAAGGGTGAGGAANGCCNGTGGGACCCCACAGANTATGGGGAGA
TAAAGGACATTGCTTTGCTTTTGGTGGCACCGTAAGCTCCTTGACTGTCTNCAGCACCCA
GAATCTCATTAAAAGCTTATTTATTGTACCTCCAACCGGCTTGTGTGCAATGGGGGTCTT
TTTGTGGAAAATCAANGAGCANACAGGTTTTCATGTGTACTGTCACCACGTGGGATGNGA
ACCAGATNGCATGGAANCAAGACGCTAAATGNAAGAGGGCCATAANGGNTGGGATTTCCC
AGGCNCCTTAAGAACAGCTTGTCTTTTTTTTTTTTCCTTTCCAAAAAA

Sequence 1928

CCGCCGGTAAGTTAAAGACTTTAAGGACATTCAAAGTTTAAAATAGTGTTCAAATTGCAA
AATTTGGCAATCTTCATATAAATTGGTTTCTTTTCTAACTTTTCAAAAACTAACATTAAA
TGTCAATTATAGGAAAACATAGTTGGAAATGTAATCATCCAAAGATCATTTTTAAAATGA
AATTTAATTAGCACATATTGAACATTTGACTTAATTGTTAAACCCCAGTTTTGTTTTGTT
TTTTTAATCAGATTTTTGCACACTGATTAGTTTTTGTGTTGTGGCTTTTGTTGCTTTATT
ATTCAAGGTTTTTTTTTTTTTTTCTTCCCCATGGGGGAGATTGTCTTCCAATGTTTAACTA
CGTTTAAATAAATAAAAATTGAATTTTATTGNTCATTTATATAAAATCTGATCCTTGATG
TAATTTCCAATACAGTTCCAATTTTATGGCTTTATAATTACAATGATATTTTCTTCTATA
ATAAAAACCAAAGTAAACATTTAAATGGGGAAACTGATATTTTTCATTTATATGAAGTAT
NAAGCCCTCTACTGGGGTCNTTATTGGNGAATCATNCTGCCTTCAAANTGGTTTCAAAAN
TGGGTAGAAANAAAACCTTTTTTTTTG

Sequence 1929

CCGCACACCCTAAAGAAAATAAGTATCCCAGTCGACATCAGTGACAGTGATATGATGCTG
AACATCATCAACAGCTCTATTACTACCAAAGCCATCAAGTCGGNGGTCATCTTTGGCTTG
CAACATTGCCCTGGATGCTNGTCAAGATGGTACAAGTTTGAGGAGAATGGTCGGAAAGAG
ATTGACATAAAAAAAAATATGCAAAGAGTGGAAAAAGATACCTGGGAGGCAATCATTGGA
ANGACTTCCTGTGTCTTGCGTGGAGTCATGATTAACAAGGATGTGACCCATCCACGTATG
CGGCGCTATATCAAGAACCCTCGCATTGTGCTGCTAGGATTCTTCTCTGGAATACCAANG
AAAGGAGAAAGCCAGGACTGACATTTGAGATTACACGAGAGGAGGGACCTTCACCCCGAA
TTCTCNCAGAATGGAGNGAAGGAAGTACATCCCAGCAGCTNTGTGAGGGACCATTATCCC

TABLE 1

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AACCTGGAAAGCCCGATGTTGGTCANTCACTTGGAAAA

Sequence 1930

TTTTTTTTTTACAACTCAAAAAAAGAAATCTTTTAATAAAAATTACTCATAAAAATCCTA
ATAAATTTTAAAGAGCAGNGATATTCCTTATTACATTTATAAAAGAACATTTGGNCCTTT
TACAAAAAGATCCCTTTTAATTNAAATACNTTTCTTATTTACAGATTAAACATAAAATAT
CATNTACAGTTGCAAAGCATATTGCACATTACAGAGCAAAGCATTNGNGTATTTCCGNAA
GTTTTCCCAGAGTTCCCAACTCTATACTTTTTTTTGTAAAAAGATTTACCCTTGCTTATG
CAAAAATAAAATAAGAAATGCNANCTGNCGGTTTTGCTATTTAAAAACTANAANCCAAAA
TAAACCTNTTAAAAATATTATTCCTCTGCCTTGCANAAAAGGAAAGTGAAGAGGGGTNTT
ANAAATCAGNGGGGGTTNCCACCAGNGTCNCTTGATAATTTT

Sequence 1931

CGTCCGGGGAAACTTTATATGGTTGGGGATAAGAATTGAATGCAAATTAATGAACTAGAT
TTGCATTTATGGAGTTACCTCATCATGGAGTTACCTTGGTCTGTCCCACGTCAATTAATC
TTGNTTCCTTATTTTCATAGACCATCCTCTAGAACAGTGTTTTCACACTGTGTATCATGA
TCCTATAATGCAGGGGTGTCCAAGCTTTTGTCTTCCCTTGGCTACACTGGTNGAAGAATT
GTCTTGGGCCACACATAAAATATACTAACACTAATGATAGCTGATAAGCTAAACAAACAA
AAAAATCACAAAAAATCTCATAATGTTTTTTTGAGATTGTGCTGTTTTTTTAGTTGTGTT
TTCAATGGAGAAATAC

Sequence 1932

CGTCCGGCGCGTTCGTGCGTCCTAGTTCCAGTACATGCGTGGAGGGTTTACGGCAGCGTG
TTCTGATTCTTTGCGGGACGGCGAGCGCATTTGTGCTTTGCCCGCCGCGGCCTANGAGGC
CTTTTGAGGCCGCGTAGTCGGTGTTTTTGAACTGACTCTACAGCTTCTGGCAGGCCGTGC
GGCGCCCTGACCCGGCCTCACCATGTTGGTGCTGTTTGAAACGTCTGTGGGTTACGCCAT
CTTTAAGGTTCTAAATGAGAAGAAACTTCAAGAGGTTGATAGTTTATGGAAAGAATTTGA
AACTCCAGAGAAAGCAAACAAAATAGTAAAGCTAAAACATTTTGAGAAATTTCAGGATAC
AGCAGAAGCATTAGCAGCATTCACAGCTCTGATGGAGGGCAAAATCAATAAGCAGCTGAA
AAAAGTTCTGAAGAAAATAGTAAAAGAAGCCCATGAACCGCTGGCAGTAGCTGATGCTAA
ACTAGGAGGGGTCATAAAGGAAA

Sequence 1933

AGGGAGCCGCCCCGCGTCCGCCCCGCGTCCGCGGACGCGTGGGCTAAAACCCATCAGGCA
AGATCACCACGCATTGANATATTTTCATATCAAGATAAAGTCGCACATTTTCCACAATAC
ATTGCTAAAATAAAGAGGAGAAAGGCTTAGGAAGTTTTTTTGCAGAGAGTGCTGGTAAAG
AATTGAGCAAGTTTGCTATTGTATTGNAATGTTTCTCTCAGGTTTGNTCTTCCTATCATG
GNNGGTATTCCATGAATAATTGAGATCAGCCCTATGTAAGGTAAGATCATAATATGGGGG
ACAAATGG

Sequence 1934

GCGGACGCGTGGGCTCCATCTGAGCTCTTGGGTGACCAGGGTGCATTGTCAATGAGGGTA
ATATTTTGAAAGACATCTTTATTATGAGCAGTAGGTCTCAACAGTGGGCTTAAAATGTGC
AGTAAATCATGCTGTAAACAGATGTGTTGTCATCCAGGTTTTGTGCCATGTCTAGAGCAC
AGGCTGAGTAGATTTAGCATAATTCTGAAGGACCCCAGGATTTTCAGAATGATAAATGTG
CATTCGCTTCCACTTACAGTCACCAGCTGCATTAACCCCTAACAAGAATCAGCCTGTCCT
TTGTAGCTTTGGAGGCAGGCATGAACTTCTCCTAGATGGCATCTTCCAAGAGGGCTATTT
TTGTCTACATTGAAATTCTGCTTAGTGTAGCCACCTGCTTCAATGATCCTA

Sequence 1935

TNGACCACGCGTCCGGGCGCCNTCTCCCAGCAATCAAGTCTTGCTCCCTGGCCTGCCCTC
CGGCACCCTGGAGCCCCGCTTTCCACACAGCCTTGCTCCTCCCGGCCTGGCTTGCTGCCT
GCAGGCCTCTCAGGGTCCTTCACCGTCTCTCCAGTCTCGGATCCGGACCCGTGGATCTCA
GCCTCAGACCCTCCTCTGGCCCCGGCCTTGCCCTCGGGCACGGCCCCTTTCCTCTTCAGC
CCTGGGGTCCTGCTCCCCGAGCCAGAATATTGTCCTCCTTGGAGGTCCCCAAAGAAGGAG
TCTCCCAAGATCTCCCAACGTTGGAGGGGAAGTCCAAGCCCAGGGGGAACTTGACATACC
ACCAGGTACATGCCCCCAGAGCCGAGAAGGATNCGGGGGGCAAGACCCCCANGCCGTAGG

TABLE 1

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GNGTCCTCCCTTGGGTCCTCCTGGGCCATCTCTGTGGGGAAGGGACAANACTCGCAACAA
NCCACATTCTAANGATGANGGCCCTTTTNCCCT
Sequence 1936
CCNCGCGTCCGGAAAATATCCNAGGTTGTACGCAGCAGTGGAAGTTGCTCTCAAGGGAGT
GGTATTTTACACTATGCTCATGGCGACAGTCAGCAAACTCACCTGTTGAAGCAAGGAAGA
AGCTCCATGGGCACTGGTCTCAGTGGTGGGAAACGTCCTAGTCAGGAAGAGGACACACAG
AGTATTGGTCCTAAAGNCCAGAGACAGAGCACTAATTAGGTAAATATTTTAGAGCTGTAT
TTCTTGCTTTAGAAGAGTATATAATTAACATAAATTAAGATAATTTCAAAAATGGAGCAA
ATCTCTATTTTCAAACCAGAAAATCTTGAGGCATTAATTTTTAAGCAATTTTTACAAACT
CAGTTAATTTTTGGTCAAGAGACATGCATCTGTACTGGAGAAATTGTTGCACCAAGTTTT
ATATTCATCTGAACCAATGC
Sequence 1937
CCCCGCGTCCGCCCCTTTNCTCCCTGAGGACTCCACAGAAGATGGTATATTATGGGAAAC
CTTCTTGTAAAAACAACTATGAGAATTATATTGACATAGTGAAATATGTGTTCAGCGCTT
ACAAGAGAGAGTCCCCTCTCATCGTCAACACTATGGGATGGGTTTCAGACCAGGGGCTCC
TGCTTCTCATTGATCTGATCCGATTGCTGTCTCCCAGCCACGTGGTTCAGTTCCGCTCTG
ACCACAGTAAATATATGCCAGACCTTACCCCGCAGTATGTAGATGACATGGATGGCTTGT
ACACAAAAAGCAAGACCAAGATGAGAAATCGACGTTTCAGACTCGCAGCATTTGCAGATG
CTTTGGAATTTGCTGATGAAGAAAAAGAGAGTCCAGTTGAGTTCACTGGACATAAACTGA
TAGGTGTTTATACAAGACTTTGCATTCAGAATAACTCCAAGAAATAGGTAACTAACCCTC
ATTTGGCTGAAGAATTATTTTTCCTTCCGTCGAAAAAGACCTGCCATTCTCA
Sequence 1938
GTCGACCCACGCGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCTCTCGC
ACTCTGTTCTTCCGCCGCTCCGCCGTCGCGTTTCTCTGCCGGTCGCAATGGNAGAAGAGA
TCGCCGCGCTGGTCATTGACAATGGCTCC
Sequence 1939
ACCACGCGTCCGGGCGCCAGGCTAGGGCGGCCTGGCCACTGAGCCGGGGTGCAGTGGCAG
CGGGAGAGTACCTGGCGATGGCGATATGAGCGGTGCGGGGGTGGCGGCTGGGACGCGGCC
CCCCAGCTCGCCGACCCCGGGCTCTCGGCGCCGGCGCCAGCGCCCCTCTGTGGGCGTCCA
GTCCTTGAGGCCGCAGAGCCCGCAGCTCAGGCAGAGCGACCCGCAGAAACGGAACCTGGA
CCTGGAGAAAAGCCTGCAGTTCCTGCAGCAGCAGCACTCGGAGATGCTGGCCAAGCTCCA
TGAGGAGATCGAGCATCTGAAGCGGGAAAACAAGGGTGAGCCGGCGCGGGGCCCTAGGCC
GGCCCTGCCTCCCCAGGCACACTCAACACTGCCGCTCCCGCAGCACAGAAACACAGCCAT
TCAACTCCAGCACACGCCTGGGCTCAGGGGGAACACAGGACGATCTCCATTACAAGCTCA
TAATGAATCAGACATCACAGAAGAA
Sequence 1940
CGCGTCCGTGAAGGCCAGACCGAGAGGTGCCAGAAGAGAACAAACCTCCATCCAGACACG
CGGGCGGAAAGGCTCCAGGGGTCCAGGGCCAGATGGCGCCGCCTCTGCCCGACTCAGAAA
GAGAGAAACAAGAGCCGGAGCAGGGAGAGGTTGGGAAGAGGCCTNGACAGGCCCCANGCC
TTTGGAGGAGGCGGGTGATCTTCCTGAAGATCCCCAGAAAGTTCCAGAAGCAGATGGTCA
GCCAGCTGTCCAGCCTGCAAAGGAGGACCTGGGGCCAGGAGACAGGGGCCTGCATCCTCG
GCCCCAGGCAGTGCTGTCTGAGCAGCANAACGGCTTGGCGGTGGGTGGAGGGGAAAAAGG
CCAAGGGGGGACCGCCGCCAGGCAACTCCGCCGGNGACACAGGGCAGCCCGCANAGGACA
GCNACCACGGTGGGGAAGCCTTCCCTCCAGCGGAGAAGCCGGCTTCAGG
Sequence 1941
CCGCGTCCGCAGAAACATATGTGTAGTGTGCTGCAGCATAAGATGGAAGAACTTAAAGAA
GGCCTGCGGCAAAGAGATGAGCTTATTGAGAAACATGGCTTAGTTATAATCCCCGATGGC
ACTCCCAATGGTGATGTCAGTCATGAACCAGTGGCTGGAGCCATCACTGNTGTGTCTCAA
GGAAGCTGCTCAGGTCTTGGAGTCAGCAGGAGAAGGGCCATTAGATGTAAGGCTACGAAA
ACTTGCTGGAGAGAAGGAAGAACTACTGTCACAGATTAGAAAACTGAAGCTTCAGTTAGA
GGAGGAACGACAGAAATGCTCCAGGAATGATGGCACAGTGGGTGACCTGGCAGGACTGCA

TABLE 1

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GAATGGCTCAGACTTGCAGTTCATCGAAATGCAGAGAGATGCCAATAGACAAATTAGCCG
AATACCAATTT
Sequence 1942
CCGCGTCCGCTCGCCTGCCCCGGTGCACCCAGTCCGCTCACCCAGCCCAGTCCGTCCGGT
CCTCACCGCCTGCCGGCCGGCCCACCCCCCACCCGCAGCCATGGACGCCATCAAGAAGAA
GATGCAGATGCTGAAGCTGGACAAGGAGAACGCCATCGACCGCGCCNAGNNAGGGCCGAA
TCCGACANGAAGCAANGCNTGAGGACCGCTTGCAAGCANGCTGGAGGAGGAGCAGCAGGC
CCTCCAGAAGAAGCTGAAGGGGACAGAGGATGAGGTGGAAAAGTATTCTGAATCCGTGAA
GGAGGCCCAGGAGAAACTGGAGCAGGCCGAGAAGAAGGCCACTGATGCTGAGGCAGATGT
GGCCTCCCTTNACCGCCGCATTAGCTGGTTTGAGGAGGAGCTGGACCGGGCCCAAGGANC
GCCTGGCTACAAGNCCTGCANAAACTTGTANGANGCCNNNNAANGCCGGCCTNATNATTN
GCCNNGAAGAGGGAATTNAAANGTTNTTNNAAAAACC
Sequence 1943
GTCCGCTTAGTTTCTGCATTATNAGTNAGCATAAATAATAAATCCAGAAAACGTGCTGTA
TTTGTTGTTGTTTCCTCCATGGGCTTTCCCGCCATCTAATTTGATATAGACTTCATCTCC
CGGCTCCAAATGAAGAACCACACTGTTACTGGCATAGTCGTAATTCTGATCAGCATCTTG
GGCAATTGCACTAGCACGCACCTACGTGAAACAGACAAGAATTAGGATGCGTAAATGAGA
ATTCTCAAGTTTTCTTTTTTGCCATTCATGTAGCATCACAAGCTGACTTGCTGCCATAGT
ACAGAATTTAGCATAGCAAAG
Sequence 1944
GCGTCCGGCTGCGGGCGGTCGGGGCTCCGGGCCGGGGCGGCGGCGCCATCTTGTGCCCGG
GGCCGGTGGGGAGGCCGGGGAGGGGGCCCCGGGGGGGCGCAGGGGACTACGGGAACGGCCT
GGAGTCTGAGGAACTGGAGCCTGAGGAGCCCCCGGCAGCCAAGAGGAGGAGGAGGAGCCG
GGACTGGTCGAGGGTGACCCGGGGGACGGCGCCATTGAGGACCCGGAGCTGGAAGCTATC
AAAGCTCGAGTCAGGGAGATGGAGGAAGAAGCTGAGAAGCTAAAGGAGCTACAGAACGAG
GTAGAGAAGCAGATGAATATGAGTCCACCTCCAGGCAATGCTGGCCCGGTGATCATGTCC
ATTGAGGAGAAGATGGAGGCTGATGCCCGTTCCATCTATGTTGGCAATGTGGACTATGGT
GCAACAGCAGAAGAGCTGGA
Sequence 1945
CCCACGCGTCCGGCAAACCGGGAAAGGAGAGGATCCCGGAGCCGGTGAGAATTCTCTGTT
TTTTCTCTACCATCCTTTCCAGGCCTTTTCCTCACCTAATGAGTCGTAGAGACGAGGGCC
CAAAAAGTCTGTAAAGGTGGCTGGTGAAAGATTAAGTGNTCCAAGGGCCCTACATTCCNG
GANGNGGTTCGGGATAAAAGAGAACTAGTCNTGGGAACAATGTAAGTGGGAACNTNAAGG
NANNGGNAAAGCGGCCNATAAAGGNGNNCGGAGGNCCCAATGGNANTAAAGCGGACCCTG
TGTAGGTATAGAGTTGAGTCAAGTGGAGTCACTGCCTCTTGTCCCTCTTGGTCAGCGTGA
TGGCCAGAGGCCTGGGGGCCCCCCACTGGGTGGGCCGTGGGGACTGCTGANCCTGGGCCN
ACTTGG
Sequence 1946
ACGCGTCCGGCCGGGAGTGGTGGTGGGCACCTGTAATCCCAGTTACTCGGGAGGCTGAGG
CAAGAGAATCTCTTGAGCTCAGGAGGCAGAGGTTGCAGTGAGCTGAGATTGCGCCACTGC
ACTCCAGCCTGGGTGACAGAGGGAGACTCCGTCCCAAAAAAAAGAAAAAGAGAAACAGCT
GTCACCTCCCGCAGGACCCAAATCCTCTCTCTGAGCACCGTCATCCACCACATGGCTNGG
CCTNGNTTCCAAGANCNAGTCNANCCTTTNNNGNCTTANTTNNAGGTNGANNCCGCNNNT
TTCNNCCCAAAGGAGACAGCCCCTGCTCCTAGATGCCCTTGGCCTCCGCAGTGCAGCCCC
CAGGTGTCCTGACTGAAGCANAGGCCNTAGCCCCAT
Sequence 1947
NCGCGTCCGAAGTGGATGAAAATTGGTACCATGGGGAAGTCAATGGAATCCATGGCTTTT
TCCCCACCAACTTTGTGCAGATTATTAAACCGTTACCTCAGCCCCCACCTCAGTGCAAAG
CACTTTATGACTTTGAAGTGAAAGACAAGGAAGCAGACAAAGATTGCCTTCCATTTGCAA
AGGATGATGTTCTGACTGTGATCCGAAGAGTGGATGAAAACTGGGCTGAAGGAATGCTGG
CAGACAAAATAGGAATATTTCCAATTTCATATGTTGAGTTTAACTCGGCTGCTAAGCAGC

TABLE 1

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TGATAGAATGGGATAAGCCTCCTGTGCCAGGAGTTGATGCTGGAGAATGTTCCTCGGCAG
CAGCCCAGAGCAGCACTGCCCCAAAGCACTCCGACACCAAGAAGAACACCA

Sequence 1948

CGCGTCCGAGTATTTGAAGTGATGCTGGCTCAGACCGCTCCCACTATGCAAAATGTAACC
CATACATGGATTCTCCACAATCAATAGGTTTTGCTGAACTGCTGAGCCTTGGCAGTGGGC
GCCTTTGAGGCTTAGAAGTGCCNNAAGNNTCTNNCANNCNGNTNNCATGCTTTNTTTTTT
TGNCGCACTNTTANCAGTCANCAAANAAAATCCNGGGGNGNTNNTNANCCCCNAAGGCNC
NNGNTNCCACNGTTCAGTGAAACTTGCTTCAGAGGCAGAAAGAAGCAGGTTTCCAAGCAA
CAATCAGTGCTCCACACATGCATGCATATGCGCTAGAACTTCTATTTGATCAGTTGCATG
AAGGAGCTAAAGCTCTTGATGTAGGATCTGGGAAGTGGAATC

Sequence 1949

CCACGCGTCCGGAGAGAATGGGCCGCGCGCGCCCGCGGCCGGGGAAAGCCTGTCGGGAAC
CCGGGAGAGCCTGGCCCAGGGCCCCGACGCCGCAACCACCGACGAACTCAGCTCTCTCGG
GTCTGACTCGGAGGCCAACGGCTTCGCCGAGCGCCGCATCGACAAGTTCGGCTTCATCGT
GGGCTCGCAGGGCGCCGAGGGCGCGCTGGAGGAAGTACCCCTGGAGGTGCTGAGGCAGAG
GGAGTCCAAGTGGCTGGACATGCTCAACAACTGGGACAAATGGATGGCCAAGAAGCACAA
AAAGATTCGTCTGCGGTGCCAAAAGGGCATCCCGCCTTCTCTGCGGGGCCGTGCTTGGCA
GTACCTGTCAGGAGGCAAGGTGAAGTTACAGCAGAACCCTGGAAAGTTTGACGAGCTGGA
CATGTCCCCTGGGGACCCCAAGTGNTTGGACGTGATGGAACCGTGACCTGCNCCGGCAGT
TNCCATTCATGAAGAGTTTTTGTGTCCGGGGGGGG

Sequence 1950

NGCGTCCGGCTTTACAACGGGCAAATACTGGAAACCATCGGAGGCAAACAGCTCANAGTC
TTCGTATATCGTACAGCTGTCTGCATTGAAAATTCATGCATGGNGAAAGGGAGTAAGCAA
GGGAGAAACGGTGCGATTCACATATACCGCGAGATCATCAAGCCAGCNNANAAATCCCTC
CATNGAAAAGTTAAAACAAGGATAAGCGCTTTAGCACCTTTCTCAGCCTNCTTGAAGCTT
GCANAACTTGAAAAGAAGCTTCCTGACACAACNCTGGAGACTGGGACATTATTTGTGCCA
ACCAAATNGATGCTTTTAAAGGGGAATGACCTAGTTGAANNAAAAAAGGAAATTTCTTGA
TACNGGGACCAAAAAAATGGCTCNTTTCAAAAAACAATTCCATTTCCTTTATTTNACCCC
TGGACCACCCCAAGGGAAGTTTTTTTCAATTTGGGGAAAAAAGNGGAATTTTTGG

Sequence 1951

CAATNCTTGAACCAGGAAGGCGGAGGTTGTCGGGGGCTGAGATTGCACCACTGTGCTCCA
GCCTGGGCGACAGAGGGAGTCCCTTTCTCAAAAAAATAATAATAAAAATAAAGATGGCAG
TAGGAAGGTTTCAGCTTGAGATGCTGTCTTTTCTTCTGTTTTTATGCATAAATACAACGA
AGACGGGAGAGGAGATGGAAAGCAAAGATGATTAAGTGAAATAATTGTGGGAAACAATAG
AGGGATAGACTTTGCTTATAGGGGATGTGGACAGAGCAGAAAAATGGGAGGAATGGGGAG
GATTCAGTTAGAGAAGGAAGAAACCGGTCCAAGGGGCTGGGGCTTTAGGCCCTGGGGCCT
CCAGTGCCCGTATAAGGCTGTGGCAGAAGCCCTGCCCATTTCCGTTCCTTTCACTCCCTA
TNTTCACCCTTACACCTCCCAAAAAC

Sequence 1952

CCGCGTCCGGGTTTTTTGGCCTTATTTTCCTGGCTTTTCCTTCTCCAAACTTTGAGGCGT
GATTTCATTCATTGAAGAATCAATACATATTTTGTTTCAAAATGTTTGAAACAAAAGACA
TAGATGGTAGACTTTTATTAAAACATATATGGATGTGGAAAGCACATATATTAATGCAGT
CATCCCTTTTCAGGTGGGAAGAGAGCAAACCAGTTGATTTTTTAATTCATCCTTAGTACA
CAGAGAATATCTTTTNCTCAAGGAATATACCCTGGTTGGAGCTTTAAAAAAGAATGGTTT
TGGGAACCATTTCATTTTTCCCAANAAGGTTGCTATTCTTGGGGTAANTGGGGNATACCN
GANTGNTTTTTCCNGGGGGGTTTTGGTGGTGGGGGGTAAAATTGGGGNTTTTTTTTTT

Sequence 1953

GCGCCGAGGGGTGTAATGCATTNGCAGCAAGAGCTATGAGAAATAACTTTAGACATTATT
TCATTGAACCTTCCCAACTGAAATTATTTTATGATGTTATAACATGGATAGTAACTCAAG
TAGCAATAAGTTACACAGTTGTGCCATTTGTGCTTCTTTCTATAAAACCATCACTCACGT
TTTACAGCTCCTGGTATTATTGCCTGCACATTCTTGGTATCTTAGTATTATTGTTGTTGC

TABLE 1

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CAGTGAAAAAAACTCAAAGAAGAAAGAATACACATGAAAACATTCAGCTCTCACAATCCA
AAAAGTTTGATGAAGGAGAAAATTCTTTGGGACAGAACAGTTTTTTTACAACAAACAATG
TTTGCAATCAGAATCAAGAAATAGCCTCGAGACATTCATCACTAAAGCAGTGATCGGGAA
GGCTCTGAGGGCTGTTTTTTTTTTTGATGTTAACAGAAACCAATCTTAGCACCTTTTCAA
GGGGTTTGAGTTT

Sequence 1954

TCGCCCCGCGTCCGGTTAAAACTGCCTCTTTAGATGTGGATGCCTTAATGCTGTAACACA
TTTGAAAACATTGGCAATACTTAAGTTGCTGCCATGATTACAGATGGAATTATTGGCTAC
CAAAGAGACGCAATTGATGATGAGAAGCATGATTCTTGCTTCCATATAACCAAAGTTAAT
CTTAATTGCAATTTGACTCCGTTTCCTTGGTAGGGATAGACTTTCTTCAGATTCCAAGTG
CTCTCTTAAATGGCAAATTAAGTTAAAGAATACTACTGCTCCATTCCCCTCACTTATTCT
CCAGTTAATTGCTTGTCAGTTCCATTTCAAGAAAGCAGTGGATGTTCCAGGTTTGATTCA
GTTTTCCTGTGCACACTATTGCCAAATTTTTTTTTTAGCAAAGATTCTGCACTGGAACGTA
GACAGTTGGAAACAGTACTACCTACTAGAGGGTATGGGGTTTCTCTTTCTCCCCGCTTTC
ACCTCTTTCTTTTCCAATTC

Sequence 1955

CCNCGCGTCCGGCTCTGCCCAGTCACCCGGTCTCCTCCGGCTTCCCTCCGGCCAACAGCG
CGCTCAGGCTCGCCTCAGGCCCCTCCAACGGAACAGGAGTCGAGGGGCAGTGAGGCCGGG
ATGCGTGCGAGCGCGGGGCGCGGCTGGCGCTGGGCCGTGGGGGCGGGGCGGCGTGCGTGC
CAGCGGCCGTGCGATTCTGTGAGGCCTGCTCTGCGCCGGCGGGGAAGCGCGGGCGACGCT
ACGCTGGACGTCCTTACCTGCCGGAGGAGAGAAAGTGCCGTCAGCTGTAGGGG

Sequence 1956

GCGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGAC
GCGTGGGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGAGAATGTGCTATACCCC
AGAAATTCCATCGATCTGTCATGGGCCCCAAAGGTTCCAGAATCCAGCAGATTACTCGGG
ATTTCAGTGTTCAAATTAAATTCCCAGACAGAGAGGAGAACGCAGTTCACAGTACAGAGC
CAGTTGTCCAGGAGAATGGGGACGAAGCTGGGGAGGGGAGAGAGGCTAAAGATTGTGACC
CCGGCTCTNCAAGGAGGTGTGACATCATCATCATCTCTGGCCGGAAAGAAAAGTGTGAGG

Sequence 1957

CCACGCGTCCGCTGGAGGCACTGGACGAGATGCTGACGCACGACATCGCCAAGCTCATGC
CCCTGCTGCGGCAGGAGGAGCTGGAGAGCACCGAGGTGGGCGTGCAGGGGGGCGCTTTTG
AGGGCACCCACATGGGCCCGTTTGTGGAGCGGGGACCTGACGAGGCCATGGAGGACGGCG
AGGAGGGCTCGGACGACGAGGCCGAGTGGGTGGTGACCAAGGACAAGTCCAAATACGACG
AGATCTTCTACAACCTGGCGCCTGCCGACGGCAAGCTGAGCGGCTCCAAGGCCAAGACCT
GGATGGTGGGGACCAAGCTCCCCAACTCAGTGCTGGGGCGCATCTGGAAGCTCAGCGATG
TGGACCGCGACGGCATGCTGGATGATGAAGAGTTCGCGCTGGCCAGCCACCTCATCGAGG
CCAAGCTGGAAGGCCACGGGCTGCCCGCCAACCTGCCCCGTNGCCTGGTGCCACCCTCCA
AGCGACGCCACAAGGGCTCCGNCGAGTGAGCCGGGCCCCCCTT

Sequence 1958

ACGCGTCCGCCTGGCTAACATGGCCGAAAGGTCGTATTCTCCGGGGGAGGACGGAGGCCC
GGAGAGGAGGGGGTGGAGTGCCTGGTTTTCCAGTCAGGCGGCCGGAGGGCAGCCCTCAAG
AACGGCCCTGACCGCCCGCGGGGTGAGGGGCCCTTTCTGGGCAGGACCCGCCCCTTGGTC
CCGCAGAGCCTTGGTACTTGGACCTGAACCTTGCTCCGAGAGGGAGTCCTCGCGGACGTC
AGCCAAGATTCCAGAATGACTACTATCTTGACTTACCCCTTTAAAAATCTTCCCACTGCA
TCAAAATGGGCCCTCAGATTTTCCATAAGACCTCTGAGCTGTTCCTCCCAGCTACGAGCT
GCCCCAGCTGTCCAGACCAAAACGAAGAAGACGTTAGCCAAACCCAATATAAGGAATGTT
GTGGTGGTGGATGGTGTTCGCACTCCATTTTTGCTGTCTGGCACTTCATATAAAGACCTG
ATGCCACATGATT

Sequence 1959

CCACGCGTCCGGGGGACATGGTGGTGAGCAGGACAGAATTCCTGTCCTCATGAGTCTTAC

TABLE 1

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ATTCTAGAAGGAAGGAGCAGATAAAATCTAAATAAGGTTATGAGATTGTGACGAAGCGTC
CGATTACACCTCAACAAGAAGGCAACTGACAAACAGCCTTATAGCAAGCTCCCAGGTGTC
TCTCTTCTGAAACCACTGAAAGGGGTAGATCCTAACTTAATCAACAACCTGGAAACATTC
TTTGAATTGGATTATCCCAAACCTTTATTTTTCTTCGGTAGCACCAATGAAAAGA

Sequence 1960

TCCGGTGCAGCCGGGCTAGCTTCTCCTGCATCTCCCGAACGTGCTCCAGCTGCTCAAAGG
AGCNTTCCTTCCCTGGAACGAANCCCCTGNCTGAACCCTNNNAAAGAGNCCTGGAACCCT
GGAACCCTGGAACCATGGNCCCAGCCNTNCCCCANGNACTGGGCCCTACAGCCCTATCCA
CACACCCGCTGAAACCAGCCCCCAGGACTCACCGAAGGCCNGGGGGCGGCCAGAGTGGAA
ATCATTGAGCAGGTTCAGGAGTCCCCCCTCCATCTNATAGACATCAGTCACCTCGGTCAG
GAAGGAGTGCTGCAGGGGCGTGCCTGCAGAGCCGCTTCCACCTCCAGCCAGGACT

Sequence 1961

NGNCGCGGTTCTCGTCTCCTCCCGGCCGGCGGAGCGAGTGGAGGCTGCAGCCCAGCTCGT
CTCGGCGCCCGCGTCGCCGTCNCGAAGCCCCCCGCCCCGCTTCCGCCGCGTCGGAATGAG
CTCCCGGAAAGTGCTGGCCATTCAGGCCCNAAAGCGGAGGCCGAAAAGAGAGAAACATCC
GAAAAAAAATCAAGCAGAAGATTGAGCTGCTGATGTCAGTTAACTCTGAGAAGTCGTCCT
CTTCAGAAAGGCCGGAGCCTCAACAGAAAGCTCCTTTAGTTCCTCCTCCTCCACCGCCAC
CACCACCACCACCGCCACCTTTGCCAGACCCCACACCCCCGGAGCC

Sequence 1962

CGCCCACGCGTCCNNCCCGCGTCCGGGAGAAGATGGAAGCAGTGCCCGACGTAGAGCGCA
AGGAGGACAAGCCCGAGGGGCAGTCACCTGTGAAGGCTGAGTGGCCCAGCGAAACCCCGG
TGCTGTGCCAGCAGTGTGGCGGCAAGCCTGGCGTCACCTTCACCAGTGCCAAGGGCGAGG
TCTTCTCCGTACTGGAGTTTGCACCCTCAAATCATTCTTTTAAGAAAATTGAGTTCCAGC
CTCCAGAAGCCAAGAAGTTCTTCAGCACAGTGCGGAAGGAGATGGCGCTGCTGGCTACCT
CACTGCCTGAGGGCATCATGGTCAAGACTTTTGAAGATAGAATGGACCTCTTCTCAGCTC
T

Sequence 1963

TCCGCGGGNGCGTGGGCGGCCACTCATTTGCATTATCTTAAATCACAAATAATTACTTAA
TTNGCTGGAGTGTGTGCTTTGCAACTTTTATACCAGAGTAAAATTTGTATTTAAAACAAA
AAATAAGAATGCCCATCACTAGGAGAAACACTCCTCACAGAAAACACACACACACACACA
CACACACAATTTAAAAACTGAGTAAATTTAAATGTATGAAAGGCNCCACAAATTGATTTC
AACAAATAAATTTCATTTCTCTAGCTACTTATGTCTGGCCTTATTTTGAGCGTTACAATT
TTATTGCCTTCATTTGCCTATTTAGACTGATGTAGTTTGATATGATGAAGT

Sequence 1964

CTNTAGGGAGNCGACCCACGCGTCCGCCCCGCGTCCGGTTAGTTCTACCTGGTGCCCATG
TTCTGATTGTGTGTGGGATTGCATGGTGTCCTGATTGCATCTAGGTGGAGCGGATGGAAT
GTGCTGGGCCACTGTTGGGTGGAGAGCAGCACATTCTTACAGAGGAGATGGAGCGTTATG
AGCATAGTATGTGGATAGGTATCTTCACCTGCCCGCCCCTGAGTCAGCCTCCTTGACTTG
ATAGCTTGAAGAATCCTTTTCCACTGAAATAGAGGATAATTAATTGACACATCTGAAATC
CCCAATCAATCAATCAAGAGAAAGGTAGAACTAAAAACTCCTTAACTTACTGTTGCTTAC
ACCCCTGAAAGTCTGTTTTT

Sequence 1965

CGTCCGGCGCCCTCCAGCCCCGTCCGGGAGTCCCCGGCCCGCTGCGGTGCCGGGAGTACC
TCCAACCCCCTGCNCCCCNNANGGAGGCCNAGGGGCTTAGCCACCAGGGCTCGGAAGTGG
GGGCCGAATCCGGTGCNNGNCNNNNNNNAGGNNAGCANAGCCGGAGTTGGGGAGACTGGT
TGCTGAAAAGCCAGGAGTCAAAATGACTGAGCGCTTTGACTGCCACCATTGCAACGAATC
TCTCTTTGGCAAGAAGTACATCCTGCGGGAGGAGAGCCCCTACTGCGTGGTGTGCTTTGA
GACCCTGTTCGCCAACACCTGCGAGGAGTGTGGGAAGCC

Sequence 1966

CCCACGCGTCCGGTGCACTCAACAGAACGGCCCTTCAAATGTGAGAAATGTGAGGCAGCT
TTCGCCACGAAGGATCGGCTGCGGGCGCACACAGNACGACACGAGGAGAAAGTGCCATGT

TABLE 1

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CACGTGTGTGGCAAGATGCTGAGCTCGGCTTATATNNNNGACCACATGAAGGTGCACAGC
CAGGGTCCTCACCATGTCTGTGAGCTCTGCAACAAAGGCTTCACCACGGCAGCATACCTG
CGCATCCACGCGGTGAAGGACCACGGGCTCCAGGCCCCGCGGGCTGACCGCATCCTGTGC
AAGCTGTGCAGCGTGCACTGCAAGACCCCTGCCCAGCTGGCCGGCCACATGCAGA
Sequence 1967
CGNCCCACGCGTCCGGCGGTGCCGCGGGGATGGCGGGAGCCGGAGCTGGAGCCGGAGCTC
GCGGCGGAGCGGGGGCGGGGGTCNAGGCTCGAGCTCGCGATCCACCGCCCGCGCACCGCG
CACATCCTCGCCACCCTCGGCCTGCGGCTCAGCCCTNNNNCCNNNNNANNNATGGCNNGN
TCAGGGGGCCTGGGGTCTGGGGACAACGCCCCGACCACTGAGGCTCTTTTCGTGGCACTG
GGCGCGGGCGTGACGGCGCTCAGCCATCCCCTGCTCTACGTGAAGCTGCTCATCCAGGTG
GGTCATGAGCCGATGCCCCCCACCCTTGGGACCAATGTGCTGGGGAGGAAGGTCCTCTAT
CTG
Sequence 1968
GCGTCCGGGCGTGTAAACCAGCCGGAGCGGCGCGGCAGCGGCAAGGACCGCCGTGGCGCC
TAGAGTAGCCGACCCGGGGGGAGCGCGGGGCGACGCTGGCTGCAGGGACCCGGTGACAGC
GTGAGAGGTTCGCAGAGTACTAGGTTTTGACAAGCTTGCATCATGCGTGAGTATAAGCTA
GTCGTTCTTGGCTCAGGAGGCGTTGGAAAGTCTGCTTTGACTGTACAATTTGTTCAAGGA
ATTTTTGTAGAAAAATACGATCCTACCGATAGAAGATTCTTATAGAAAGCAAGTTGAAGT
AGATGCACAACAGTGTATGCTTGAAATCTTGGATACTGCAGGAACGGAGCAATTTACAGC
AATGAGGGGATTTATACATGAAAAATGGACAGGGATTTGCATTAGNTTATTTCATTNCAN
GCCCANNCCCAATTTTACGTTTAAAAAACCTGNNNNAAAAAAATTTTTTTGGNTAAAAAN
CCNTNTTGTNTCCCCAAAANTTTTTTTGGGGNANAAAAANNGGCCCTCCNAAAAAAAAAA

Sequence 1969
CCCACGCGTCCGCACGCCAGTGCCTCCCTTTACCTACTAATGAGGCAAAACTTTGAGATT
GGGAATAACTTTGCCAGGGTTAAAATGCAGGTAACAATGTCACTATCCTCCTTGGTGGGC
ACATCTNANAATTTTAATGAAGAATTCTTAAGACNGTCTTTCTAAANNACTATTTNGTAC
ATTATGCTTGAAGAANATNTGNGAATTGAGGGAAACA
Sequence 1970
GCGTCCGGTTTTCCAACTGCAGCTTTTTAATGGTTAACCTTCATCTAATTTTTTTTCTCC
CACTGGTTTATAGATCCTCTGACTTGTGTGTGTTTATAGCTTTTGTTTCGCGGGGTTGTG
GTGAGGAAGGGGTGATGGCATGCGGAGTTCTTTATCTTCAGTGAGAANNGGCCCTGCCCG
CCTGAGAGCCAGCTTNCGCGTTGGAGGCACCGNGTTCAGAGAGCTGCTGAGCGCCACCCT
CTACCCNGCTGACAGACAACACAGACCTGTGCCGAAGGCTAANTTGNGGCTTTTTACGAC
CCTACCCCACCCCCTGTTTTCAGGGGTT
Sequence 1971
CGTCCGGTGAGATTCTCCGTAATGGGCGGGGACAGAGTGCCCTGCAGGAGATTCTGGGCA
AGGTTATCCAGGATGTGCTAGAAGACAAAGTGCTCAGCGTCCACACAGACCCTGTCCACC
TCTATAAGAACTGGATCAACCAGACTGAGGCCCAGACAGGGCAAGCGCAGCCATCTCCCA
TATGATGTCACCCCGGAGCAGGCCTTGAGCCACCCCGAGGTCCAGAGACGACTGGACATC
GCCCTACGCAACCTCCTCGCCATGACTGATAAGTTCCTTTTAGCCATCACCTCATCTGTG
GACCAAATTCCGTATGGGATGCGATATGTGGCCAAAGTCCTGAAGGCAACTCTGGCAGAG
AAATTCCCTGACGCCACAGACAGCGAGGTCTATAAGGGTGGTCGGGAACCTTCCTGTACT
ACCGCTTCCTGAACCACTTGTGGTGGCTCCTGACGCCTTCACATTGTGGCCATGGCAANC
TGGTGGAGCCCTGGCTGCCCCCCAGCGCCATGCCCTGGG
Sequence 1972
GAGGGGAGGGAAATTTATTTCTCTGCTTTTCTATTATACAAGTTGTTTACAGAAACTGCA
AATTAAAAAATTACACTGGCATTTGCAGTCCTTAAAATAAATTAAAAGTTCTCAACTTTT
TTTTTTTTGCTAAACATTTTTTTAAGTATGAGTCCTTTGTTTAAAAAGAAANAGATTANA
ACAGAAAATATTTTCTATAAATAATACATGTATTTTGGTTTTAGTGCTCCCGCCC
Sequence 1973

TABLE 1

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GCCGACCCACGCGTCCGACATCCCCAGGCACATCCGGAAGGAGGAAGGTTCCTTTCAGTC
CTGCTCCTTCTGCANGNCCAAGAAATTCACTACCATGATGGTCACACTCAACTGCCCTGA
ACTACAGCCACCTACCAAGAAGAAGAGAGTCACACGTGTGAAGCAGTGTCGTTGCATATC
CATCGATTTGGATTAAGCCAAATCCAGGTGCACCCAGCATGTCCTAGGAATGCAGCCNCA
GGAAGTCCCAGACCTAAAACAACCAGATTCTTACTTGGCTTAAACCTAGAGGCCAGAAGA
ACCCCCAGCTGCCTCCTGGCAGGAGCCTGCTTGTGCGTAGTTCGTGTGCATGAGTGTGGA
TGGGTGCCTGTGGG

Sequence 1974

CGCGTCCGCCGAGAGAAGAGGTACGGTCGAAGCCCGGAGCCAGGCCGAGCGGGAGCTGAC
CAGGCTTGACTCGGGTACAGAACGAGGCACCAGTCCCCTTGCGAACCGAAGGGCCTCGCA
GTGGATGGAGGAGGCCCAGCCCTGAGGTCAACGCCAACCAGGCTAGCCTGGCACGGGGCC
TACAGGGTGGGTAGGCGGGCGTGCCGCAGCCGTCCAGGGCCTTCCCTCAGGTCCCGGGCC
GAGGGGCCTACGCTGCGGCCCGGCAACAAGGCCCGACTCGGCCCCTCGGGACCAGAGCCC
CACCCGATCGGAAGCGGATC

Sequence 1975

GGCCTCAGGGGGNAGNNATCCTGCAAAGACNNACATGAGCCCANAGGGGAAANAGAGNCA
CCTGNGAGTACNNGCCTTTGGGNNTGACCTTGGCTCTCAGCACAAGATATTTACAGCCTN
TGAGCTTGATATTCTAGAATTGNTACAGAGATAGCTCTGGAAAAGAAATAGACTAGAAGG
ATAAAGGGAAGGAATCATAGCTTATGAAGGTTTTTACTCTGCATCAGACCGNTTTCTAGN
NCTATGACTTAACGTCCTATAGGCTGTAAGGTTCTCTGCGTGAACACTTCTTTNCTGGCC
TCCTTTCTGCCCCATTCCTNTTTAAACTCAGTTGCTGAGTTTATTATNCCCTGTGCATCC
CTGGGCATTGNTCATTCACATATGGAAACAATTCANGGAGGACCCTTTGCCTANTTTNCT
TTATCCTCTTGAATTNTGGATGGGAAAAATNTTAANTNCTTTTGGCCGCCTGCANTNGGG
GNAANTATTGGGCCTT

Sequence 1976

CGCCCCGCGTCCGCGTTGAACAGCTTTAAGAACAATGTGAATGAAATCTTAGCAACTTGG
TTAGTAATCTGAAAAGTCTATTAATGTATACTTGAAATTCTGTTTGTATAAAAATGCATT
TTCCCCTTTATTTTAACACTGTGTAAAAGAACATTATGCATGTGAGTGGTTTGAGAATTA
AATGGTTTAATACTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANGGGGNGNCCNTTANNNTNNTTNAAAA
AAAAACCCCCCNNNCCNCCCCCTGNACCCGNAANNAAAAAANNANNCCNTNGGGGGGGGA
ANCCTNNTTNTTGNCCCTTAANAGGGGNCCCAAAAAANCNATTNCCNCCCNANTTTCNNN
AAAAAANNCTTTTTTTCCCCNNNTTNNAAGNGGGGGGNNGGCCCANCCCCANAAGGGGTT
TTTNAAAGGGGGGNAACCCCCNGGTCCCCGNCCCCAAAAAAAA

Sequence 1977

CGCCNCGCGTCCGGGCTGCCGTAACAATCGCCACAAACCTGGTGACTTAAATAACAAATA
TTTATTTTCTCGTAGCTCTGGAAGCCGGAAGTCCAAAACCAATAACTTGGCAGGGCTGTG
CTCCCTCTGGGAGATCTCGGGGAGCCTCCTTGCTACATGTTCCGCTTCTGGGGACTTCTG
GTGGTGTTTCCCTGGAGGGCCAAGGCCTCCGGGCGGCCCGTGCATTCGGTGAACACCTCC
AAAGAGCTCTGAGTCACAAAGCCTTGGGAAACTTTATTTTATTCTTTCTAGGACATTATC
AGTAGTCCCGAGGAGACATCAATTACAAAACAAAAAAAAAAAAAAAAAAA

Sequence 1978

CGTCCCGACAGTCAGCCGCATCTTCTTTTGCGTCGCCAGCCGAGCCACATCGCTGAGGAC
ACCATGGGGGAAGGGTGAAGGGTCGGGAGTCAACGGGATTTGGGCGGTATTTGGGCGCCC
TGGGTCACCAAGGGGCTGGCTTTTAAACTTCTGGGTAAAAGGTGGGATATTGGTTTGCCA
ATCAAATGACCCCCTTCATTTGGACCCTCAAACTACCATGGGTTTACAATGGTTCCNAAT
ATGAATTCCACCCAATGGGCAAAATTCCCATGGGCACCCGTCAAAGGGCTTGAGAAACGG
GGAAAGCTTGGTCAATCAAATGGGAAAATTCCCNATCACCATCTTTCCAGGAGCCGAGNA
TCCCTCCAAAATCAAAGTGGGGGCGATGCTGGGCGCCTTGAGGTACCGTCGTTGGGAAGT
CCACTTGGCCGTTCTTTCACCCAACCATTGGGAAGAAAGGGCTGGGGGCCTCATTTTGCA
GGGGGGGGGAGCCAA

TABLE 1
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Sequence 1979
GAGTGTAGTTACTTCGGTCTTGCCTCACTGGGAGGCCACGTTGGTGACGATGCACACGAA
GCCCCGGTACTTGTCCAGGTTAACCATGTGCCCGTCCGATGTCCTTGGCGGAAAACTCGT
GCATGGAGCGCGCACAGCGCCAGTCGTCCNGGGACGCGCACGGGTCCTGGGACTTGGGAC
ATTCGNGGATCTCCGGTCGCAAGCTGCGGGGACAAGGCTTCTTCCGCCGGCGCCGCGCCC
TCCTGCGCCTGCACGCTGGGGCCTTCCGCCGCCGAGGGGCTCGCGGCCGCTAGACTA
Sequence 1980
CGCGTCCGATCGGAAGTGGCGCTCGTGCATTCAACTTGTTCCCGCTCATGGAACCCCTCT
TTAAAAAGACGCAGGGCACCTGTGAGCGCAGGAGCGAGCCTAAGGCCACCCAGCGGCAGC
GCCCGTGTCCTGGGCACTCAGCGTGCTGGGCAGAGCAGGTGCGATGGCCCCAGTCCTAGC
AGCCCTCGCCCATGTCCTGTGCCCTTACATGGCTCCCGGACTGTGCAGGGAGCCGATACG
TTTGCTGATAGCAATACTGGAACCACCCGGGTGCGATGGCAGTGAGGAGACTGCCCAGTG
CCTTTGGGGCTGTGCTTGCAATAAAGAAAGAATTTCCTGGAAAGGCAGTCTGCAAAAGAG
GGAACCCGGTGACTCAGAAAGACAGGATGTTTTGGTAATTTACCCCNAAATGTGCCATCC
ACCATAGTGCTTTTTCCTCTTGCCCTTCGGCTTGTTTGAATCTCACAATTATGGTATTTA
ATTCTCAAAGAAATATGTATCTGTTAGCCCGNTTGGTGACACTTATACAGATGATTAA
Sequence 1981
CNCGCGTCCGGTCGAAGCGAGGACGTGGTGGGTCCTCTGGTGCGAAATTCCGGATTTCCT
TGGGTCTTCCGGTAGGAGCTGTAATCAATTGTGCTGACAACACAGGAGCCAAAAACCTGT
ATATCATCTCCGTGAAGGGGATCAAGGGGACGGCTGAACAGACTTCCCGCTGCTGGTGTG
GGGTGACATGGTGATGGCCACAGTCAAGAAAGGCAAACCAGAGCTCAGAAAAAAGGTACA
TCCAGCAGTGGTCATTCGACAACGAAAGTCATACCGTAGAAAAGATGGCGTGTTTCTTTA
TTTTGAAGATAATGCANGAAGTCATAGGTGAACAATAAAGGCCGAGATGAAAAGGTTCTG
GCCATTACAGGACCCAGTAGCAAAGGGAGTGTGCAGACTTGTGGGCCCCCGGATTGCATC
CAATGCTGGCAAGCATTGCATGGATTCTTCCAGTATATTTGTAAAAAAAAAAAAAAAAAN
NAAA
Sequence 1982
GCGTCCGTGGTAACGATTGGCCCTAAGAAGCCCCTGCCTGACCCGTGAGCATTGTGGAAC
CCAAAGATGAGATACTGCCCACCACCCCCATCTTCAGAACAGAAGGGTGGGGAAGCCAGA
GCCCGNCTGCCATGCCCCAGCCAGTCCCCACAGCATAACAGGGTCTCCTTGGCAAGCTGT
ATTCTGGAGTCTGGATGTTGCTCTCTAAAGACCTTTAATAAAATTTTGTACACTGGACTT
TAAAGTATTGNTCACAAGGGTTATGCAATTCCNNGNCANG
Sequence 1983
CCCCGCGTCCGTGACAATCGAGTAGTACTCCCGATTGAAGCCCCCATTCGTATAATAATT
ACATCACAAGGACGTCTTGGCACTTCATGAAGCCTGGTCCCCACATTAGGGNTTTAAAAA
AACCAGGNATGGCAATTTCCCCGGGACCGGTCTAAAACCAAAACCCACTTTTCAACCGGC
TTACCACGGACCCGGGGGGGTATACTTACGGGTCAAATGGCTTCTGGAAATCTGGTGGGA
GGCAAACCACAAGTTTTCATGCCCATCGTCCTAAGAATTAATTCCCCTAAAAATCTTTGA
AATAGGGCCCGTATTTACCCTATAGCACCCCCTCTACCCCCTCTAGGAGCCAAAANAAAA
AAAANAANAAANNAAAGTGCGGCCCGCTAGACTTAGGTCTAGGAGGAAAAAAACCTTTCC
ACACCTTTCCCCTGGAACCTGGAAACATAAAAATGAATGCAAATTGTTTGGTTGTTAACT
TTGGNTTATTGGCAGGCTTATAAATGGGTTTACCAAAATAAAAGGCCAATAGGCATCACC
AAAAATTTTCAACAAAATAAAAGGCATTTTTTTTTTTAACTGGCATTTCTTAGTTTGGNG
GGGTTTTGGTCCCAA
Sequence 1984
CCGAAAGAATATCTGTGTGCTTAGGGAGGAAACTTTTTGATCTGCAGAAAAGCCAGAAGA
CATCTAGGACATCCATAAAAATTCATCAGAGAGCATTTTACTACTGAGCTGCAAAGGGAA
AAACTTAAAATGGGATATGAAAAGTGAAGAAAGTGATCATAGGGAGAAAAACCATTTCAG
ATGACAAGAGCACCTCAAAGGCAGCAGCCTCAAGGAGCAGCCATGGCCCCAGACTTGTCG
CACGGATGCAGAAAACTTAATGGAGGAGGCTGAGGTCAGAATGGGAAGAGTTTTTAAAAA
ATAAAAAGGGGAGCTAATATGTGAGGGACCAAAAAAANNNNCANAAAAAANAAAGTGCCG

TABLE 1

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GCCCGCTAGACTAGTCTAGAG

Sequence 1985

AAGCTTCCTGGTTCAAATGTGCCATTTCCCGGGTTGATGCTGCCACACTTTGTAGAGAGT
TTAGCAACACAAGTGTGCTTAAGTCAGGCGGTAGGGAAATCCCTCACTAAAAGCAGGAAG
AAAGGTTCCAATTCAAAAGGTGCCCAATGGATAGGAAGTCAAACAAGGAAAGGGTTAAAT
GGTTNGGAAAACCACAAATCAGGGTGGTGGGATTTGGGTGCTTACTTTTGNAACAAAAAA
GGGTCCCCCCTGGTGGGTCTTTTTGGTTCAAACAATTGGTACAAATTGGTAAGAAACTTC
TTGTCCAAACCACTTAAATTTATTTTTGGTCTTTGGAGGTTTTTACTTACAAAGGATGGA
NGACTATTGGGAATCCCCGGCATGCCCTGGAATTCACTAAAAGCCAAAGGGGGTCTTGTA
AGGCCAACGCTGCTTCTTCTGGAGGACTTTCCATTTCCTTTTCTGGATTGGGCAACACCG
TGCAGGCTCATGGACAAATCTGGTAGGGATAACAAATTCAGTGGTGGGANTTTCCACTTC
TTTTTTCAAGTCCTTTCATGTTAAAAGGAATTTTAAGAACACCCACATACAA

Sequence 1986

GNGTCGACCACGCGTCCGGAGCAGCAGCCATGGCCCTACGCTACCCTATGGCCGTGGGCC
TCAACAAGGGCCACAAAGTGACCAAGAACGTGAGCAAGCCCAGGCACAGCCGACGCCGCG
GGCGTCTGACCAAACACACCAAGTTCGTGCGGGACATGATTCGGGAGGTGTGTGGCTTTG
CCCCGTACGAGCGGCGCGCCATGGAGTTACTGAAGGTCTCCAAGGACAAACGGGCCCTCA
AATTTATCAAGAAAAGGGTGGGGACGCACATCCGCGCCAAGAGGAAGCGGGAGGAGCTGA
GCAACGTACTGGCCGCCATGAGGAAAGCTGCTGCCAAGAAAGACTGAGCCCCTCCCCTGC
CCTCTCCCTGAAATAAAGAACAGCTTGNCCGGATAAAAAATNAAAAAAAAAAANAAN

Sequence 1987

GCCACGCGTCCGCAGGGAACGTGATTAGTGAAAGGAAGATAAACGTGGATGTTACTCCAA
AACTTCGTTTAATGAATGCTTAAAGAATTCAAATTTTATCTGCCTCTCTTGTAATTTGGA
TCTCTTCTTAATGTACATAGTGCTAACATGAAGACCTTTTTCTGCACTATATGCAAACAG
GGTAACTAACTAAAACAAAGCCACTTTCAATCTTCAATCCTTGAAGGTATATCTAGGTTT
ATGACAGTAATTGTGTTTACATTTTATGGTGCCTAGTATTGACAAAATGTTATTTCCCTA
CATTAAACATGACTCCATAGACCTTTTCATTTGTGGGGTTTTTATTTCCTATGATGTATA
CTGCCACTAACCTTNCAAAAATTACTTAGTATTGCAAAGTCAGGGAATCATCAGGGAACG
TTTAGCTTGGCCAAAATACTTGGTCTGGTTTTAAAAACCCTGTCNAGGTCTACCAAACCT
GTTCAAGGTCTACCCAATTTTAAGGGGCAAATTTGGGGGNAAAAAGGAAAAAAT

Sequence 1988

GGTGTCGACCNCGCGTCCGCGAGTCCCGCGTTCTCTCCTTGAATCCACTCGCCAGCCCGC
CGCCCTCTGCCGCCGCACCCTGCACACCCGCCCCTCTCCTGTGCCAGGCAAGGTGACCCC
ATGGCAAGGCGCAAGCCAGAAGGGTCCAGCTTCAACATGACCCACCTGTCCATGGCTATG
GCCTTTTCCTTTCCCCCAGTTGCCAGTGGGCAACTCCACCCTCAGCTGGGCAACACCCAG
CACCAGACAGAGTTAGGAAAGGAACTTGCTACTACCAGCACCATGCCCTACCAATATCCA
GCACTGACCCCGGAGCAGAAGAAGGGAAGCTGTCTGACATCGCTCACCGCATCGTGGCAC
CTGGCAAGGGGCATCCTGGCTGCAGATGAGTCCACTGGGAGCATTGCCAAGCGGCTGCAG
TCCATTGGCACCGAGAACACCCGAGGAGAACCGGCGCTTCTACCGCCAGCTGCTGCTGAC
AGCTGACNACCCGGGTGAACCC

Sequence 1989

CGTCCGACAACATTTGGCATNAGGGTTGTATCTGTTGGTGGAGGACACAACGCCAAAAGG
AAATGGGATTTCCTGGTTAGGCCTGCGGCTTGGCAGATGATTGTTATGGGAAAGACACTG
AGTCTGTTTAGGCAATTTCTTCCTCTTTACTAATAAAGTGTTCCTATTTTGAAAGCAATG
CTGAGTTGTGGACATGTGTATAAACCGTAATGCTGTAAGTTAGGCCTCTCTTGTCTAGAA
TCTCAGCCTCTTCATACTCTCTCCCCCTTTTTTGCCATATTATTTTCCTTATCACTAACT
ATATATTTTACCTGTCTCACTTACTATCTGTCTCTCCTCTCAGAGTGTTACTCCAGGAGG
GCAGAGATAACTGTTTAGTCCAGGCTGTGCCTTTCGGTGCTCAAAATAATGCCTGGGTGC
AAAATAAATATATCTTGAATGAAATAATGAAGTAATCTTTAAAATGGTGCTCCGAGCATA
ATTTTCTATAGTAACACATAGTTTGCAATTAGTTGTCTCTTTCAGGGATAATGGAAATTG
GTCAACATAAGAAAA

TABLE 1

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Sequence 1990
NCCCCGCGTCCGAATTTGTTTTATGGATTGAATNATGTCTCCTCTAAAAAGATTTATTGA
TGTTCTAACCCTCCATGTCTCGTATTGTAACCTTATTTGGAATAGGGTTGTTGCAGAAGT
AATTAGTTACATTAAGATGAAGTCATGCTGGAGTAGGGTGAGCCCCTAATCTAAGAGGAC
TGGTGTCCTTATAGGAAGAGGAAAATGCCACATGAAGAGAGAGAGAGATGCCCAAGGAGG
TGTCATGCTGCAATGAGGGCAGAGATTGGAACTGTGCAGCTGCATGCCAAGGAACACCAA
AGATTTCAGCAAACTACTGGAAGCTAGGAAAAAGCAAAGAATTCCCCTAAATATTTCAGT
GGGAGCATAGCCCTGCCAACACCTTATTTCAGATTTCTATCCTCCACAACTATGAGGCAA
TAAGCTCTGCTGTTTTAAGCTCCTCAGTGTGAACTATTTTTGTCATGGCAGCCTTAGGAA
ACTAACACAATTTACAAACAGATTAAGTTCACTAATCAAAAGACAGCCCTTGCAATTGGG
GTTTTTTTTT
Sequence 1991
CCGCGTCCGGCGGGTGAGCCGCTGGCGCGCCGGGCCGGGCGGGGGATTGGCTGAGGGCGA
CGCGAGAGAGGGGAGACCCGGACTGAGGAGAGGACGGGGTGGAGGGTCCCGGCCGGAGGC
TAGCCTGAGGAGACCGGGGGCGGAGGGGAGACCCGGGCCGCGGAGGAAAGGGATGGAGGA
GAGGAAGCCGCCGGGCGCCAGCGGGACCCCCGGGCTGAGGGGAGAGGCGCCCCAGGCCGG
GTGAAAAGTGGCCGAGGAGACCTGGGCTGGGCTGGCAAGTCCCGGACCGGGGAGGAGGGG
AGCAGCCCTCCGATGTGAGGGATCGCAGAGGAATGAGCTTCGTTCTGGATTAAAAAAAAA
AAAAAAAAAAA
Sequence 1992
GTCACCACGCGTCCGCAGCGCACGCCCCNTGCCCTGAGAACAGGAAAGGGCCCGGAAGGG
CTGACTCACCGGGCCGACNCTCACACGAAAATGGGATGCACTTTATTTGCTGGTGCAAAG
GCAGGTGAGGGTGCCTNCTGNGTGACCGNTGGCCCTNCTGCCTGGNGGCGCTGAAGGGAA
GGAGCCAGTGAGCCTGACCCCGGGAGGGGCCGTCCCCGTGTGCCGCGTTNGGCGGGGCCC
CACGCGGCTCCCCCANGCCCGGGTCTGGGGCCCCAGGCTTTCCCCTGNCTNGNGGNCGNN
CNTNCCNNGCTTTGGGNTNCTTGNNTNGGNNTTTTTAATGCCAGNNNTCANNACATAANT
GCNTTNTGAAAGAGGTTCCAGCTATCACTTGTAACCATATATATATACATATATATTCTA
TCTACAAAGTGTTTATTTNCAAAGATNTTTCAACGGTGAATTCAGTCCCCGGCCGCCCTT
NTGACCATCTGTNCCCNGTCCTTGTCCCCGCCCCGGGG
Sequence 1993
TCNCCNCGCGTCCTTGATATTTTGAGAAAAATCATGTGAGTCATTTTTTCTGTTTCTCTT
TTCTCTTAACGATTATCACTGTAATTCTGAATCTGAAAGGTAAAACAATTAGTCAAAATA
TTATTGCCATCATTCTACCTGTGTTATGAAACTACTTATTCATAGTTAATTCTCATTAAC
ACTTACATTTCCATAAAGAAAACTCAAGTATTAATAAAAGAGACTTTACTGGCTTAAGAG
GGCTGTGAAAGATTTTTGATAGTGAATCATGACCCTAAGGGAGAGATTTGTGTGATAAAA
GTATTGTATATAATAGATCAGCGATTTTTGTAAGGCAAACAGAATTTGTAAGTTGGCAGA
TCTTCCTAAGTTGCAAAATGTAATGATGAGCTTGGTGGGAGAAGAATGAGTCGTTCTTGG
AATACCTATGTGCAGCCACTACCCATCTCAATGTCACCTTGTTTGCATTCTTGGATAGCT
TGTATATGTAGTAGTTTGATGAATAATTTAAAGAAAAACACCTAAAATTTGAAAAATGAT
TGTAGGGATCAAAAAAGGCAGATGAAATTAC
Sequence 1994
CACGCGTCCGCTGACCTGACCCNTTCCTGATCCNAGGCCNGGTGGTTGTCTTATTGCACC
ATACTCCTTGCTTCCTGATGCTGGGCAATGAGGCAGATAGCACTGGGTGTGAGAATGATC
AAGGATCTGGACCCCAAAGAATAGACTGGATGGAAAGACAAACTGCACAGGCAGATGTTT
GCCTCATAATAGTCGTAAGTGGAGTCCTGGAATTTGGACAAGTGCTGTTGGGATATAGTC
AACTTATTCTTTGAGTAATGTGACTAAAGGAAAAAACTTTGATTAAAAAAAAAAAAAAAA
AAAAAAAGTGCGGCGGCCGGGCGCGCCGGGGTGGGCGGCGAGCGGAGCCGGCCGGAGCGG
GCCGGGCA
Sequence 1995
TCCGACNAAGGAACAAAAGCGAAACACACAAACCAGCCTCAACTTACACTTGGTTACTCA
AAAGAACAAGAGTCAATGGTACTTGTCCTAGCGTTTTGGAAGAGGAAAACAGGAACCCAC

TABLE 1

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CAAACCAACCAATCAACCAAACAAAGAAAAAATTCCACAATGAAAGAATGTATTTTGTCT
TTTTGCATTTTGGTGTATAAGCCATCAATATTCAGCAAAATGATTCCTTTCTTTAAAAAA
AAAAAATGTGGAGGAAAGTAGAAATTTACCAAGGTTGTTGGCCCAGGGCGTTAAATTCAC
AGATTTTTTTAACGAGAAAAACACACAGAAGAAGCTACCTCAGGTGTTTTTACCTCAGCA
CCTTGCTCTTGTGTTTCCCTTAGAGATTTTGTAAAGCTGATAGTTGGAGCATTTTTTTAT
TTTTTTAATAAAAATGAGTTGGAAAAAAAATAAGATATCAACTGCCAGCCTGGAGGAAGG
TGACAGTCCAAGTGTGCAACAGCTGTTCTGAATTGTCTTCCGCTAGCCAAGAACCTATAT
GGCCTTCTTTTGGACAAACCTTGAAAATGTTTATTTAAA

Sequence 1996

ACGCGTCCGAAGAGGTATATCCCATACCTTTTCCCCAAATTCCCTTGTCATTAATTTTCC
AATTATGCTTCTTCCAAGTGCCTGACCATCCAGCCAAACCATTGGCTACAGCCCATGAAT
CAGTATACAATGGCGCTACTGGTCATTTCTCTTTCCATACAAAGTGCACAACCTGGTATA
CTCTTCAAAGTTCTGCCCACTGGGAAGATTTGCCTTCACCACTGTCCTTCAGGGATAGGG
GCTATAGAGCTGCAGCTGTCCACTTTCAGGTGGTGCCTGCATATCGTGCATAACCATCTG
TGAACCAAGCCCTAGTCTTGTCTTCCTCTGTCAACTGATCATAGGGAACTCCCCATGAGG
CCATCAGTGCAGGCTAAGGGAAAGAAGGCAAGGTGGCAGGAGTGGAGACCATGGACATTT
GAGCTACTTTCTTAGGTAACTTACTTGTGTCTTCAGGACCTGCTCAAGCCAGATCACATA
TATACCACTTTAATT

Sequence 1997

CGCCNCGCGTCCGCTACACTTAAGGATGAAGAGAGGAAAAATCTACAGTGTAGGCACAGA
AATGCCTAGAAATGAGAGAAAAAAAAAAACAGGAGCGCATACTGCCTCAGAAACACCAAGA
GTAGTTTGGGAAGAAAGGAGTCAACAATAACAACTATCAAAGGAATGAATGGCCAACAGT
GTAGCCTCAAGTAGGGTAGTGTGAGTAGTTGATAGACCAAAAATCCTCAGCAAAATACTA
GCGAACAGATTCAACAGCATACTGAATGGATTATACACCATGGCCAAGTGGGATTTATCC
CAGGAATACAAAGGTAGTTCAGCATTAGAAAATCAATCAATGCCAACACACCTCATTAAC
AGAAAAAGTAAAGAACTGCATACATGATCCCACAATTGATGCTGAAAAGGCATGACAAAA
TCCAACATGCTTTCATGATTTAAAAAAAAAAAAAAAAAAAAN

Sequence 1998

CCACGCGTCCGCACACTTGACCCCAGAGATCACGCCACTGTCAGCTGCCCTGGCTCAAAC
AATTGCCCAGGGAATGGCACCTCCACCTGTCTCCATGGCTCCTGTGGCTGTATCTGTGGC
TCCTGTGGCCCCTGTGGCTGTATCGATGGCCCAACCCTTGGCAGGAATCACAATGAGCCA
CACCACCACTCCCATGGTGACTTACCCTATCGCTTCCCAGAGCATGCGCATCACGGCCAT
GCCACACTGATGGGGCTAATGGACACTCCCCTGGTATAGCCTCGCAGGGCTGGGGTCAGG
GGGCCCTTGCCCACTCACCTAGCCTTCCCCATCCCTGTCTGAAGGGCTCCCTTGAGAACT
AGGACAAGAGACTACAAGGAGTATGTCCTGAGGAGGGGTTGGGATGGTGTGGTTTTCTCT
CACCTCCCTTTTATGAGGGTCCTCTTGTCCATCTTCAAGCCTCACAGTGGGGGGCTT

Sequence 1999

NNGGCAGGAGAGGTTCAAATGCATTGCATCAACCTACTATAGAGGAGCTCAAGGTAATGG
GGCTGGGTGAAGTGGGGTAGGTGGGTCTCAGAGTGCACATGGCTTCTCATATGGAGCTGG
AAGGATTGGGGAAATGAGCAGTAGTGTCTTCCCTGTCAACCTGGGGCTGTTTNTGCCACT
CTTCCAGCCATCATCATTGTCTTCAACCTGAATGATGTGGCATCTCTGGAACATACCAAG
TAAGTGAGCATCCTGCAATATAATGGGAGGCTCCG

Sequence 2000

ACGCCTCCAGCCTGGGCAATAGAATGAATGAGACTCCATCTCAAAAATAAATAAATAAAT
AAAATACTGAGAAAAAGAATCTTTATTGTTTCCTGTAAAATAAATTTTCCTTTTAGCAAA
GCTCTTTTCCCTTTGACTCTCGCCGCCTAGATTTCGGTACCAGGACCACACATTTTTAAA
GATGCTCCTCACCGCCGTACAGCTCCTGTACAGCCCAGAAAGCTCCGTGCGCACGAAGCT
CATCCAGCTCCCGGTGGTCTACGTGATGCTCATGCAGCACTCGCTGTTTCTGCCGACTCT
ACTGACGTCTGACGGAGAGGAGAGCCCGGACAGCCAAGTAAAAGGTGACCCCTCACCCCA
GCCCTTCCATTCCGTATCCAGATTTTATCTCCTGATTTCCTTA

Sequence 2001

TABLE 1

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CCCGCGTCCGCCGAGATGGCGCCCCTGCACTCCAGCCTGGGTGACAGAGTGAGACCTTGC
GTTTAAAAAAAAAAAAAAAGGAAAAGGAAAAAAAAGTTCTACTGTGGGTAAAATGCTATC
ATGCTATCAAACAGCATCACATGCTACAGAGAAGTCTTGTGAAAGGATGTCAGTGTGGCA
AACTTCATTGTCTTTTAAGAAATTGCCACAGCTATCGTAATCTTCAACCACCACCACCCT
GATGAGTCAGTAGCCATCGTTAACGTTGGCGTAAGACCCTCCACCAGCAAAAAGATTGTT
AGCATTTTTTTAGCAGTGATGTATTTATCAATTATACATAATGCTATTGTACACTTCTTA
ATAGACTATGGTATAGTGTAACCATAATTTATGCACTGGGAAACCAACAAATTCATGAGA
TTCGCTTTATTGTANTTGCTCTGGAATTGAGCCTGCCCGTGTTTCTTGAGGTATACCTGT
GTATTAGGTATGTTCCTTGTATATAAAACCCCATTTTTTAGGGTAGGAAACTAANGCTTA
GAGTTTGAGCCAATTTTTCCCATA

Sequence 2002

CGTCCGCACTGTTCAAACCCTGTCATGCTTTAAAACTGATGCGAGATGATTTTGTTTTTT
GCATAATCAATACTTAAGGGTGCAATCAACTGTTAGTAATTGTGCAGTANAGTAAAGCCC
TGTGGTGTATCAACTACTAGTTAAGAGTCTCAGTTGATTTCTGTAATGTTTGACCTAATA
ATAGCCCGTTTCGTCTCTGACCCAACAGAGGAAGCACAGATCAAATCACCTTGGAGTGGT
CACCAGGGGGACAGGGAGCCCCCCACCAATGTATCAATGGGTGATTTATGATGCCTTCTG
CCCTTTGGCGAGTGAATGGGTTTCCCATAGGGGAAGTTNGGCCTCCCTCCGTGAGCTTTG
GAAAATGTTTTTCTAATAGACACAGGGGAGGCCAGTTTTTGTTTTNANAGCAATTATTTT
TTCCCAAATTCNTCTGTTTTGGGNGGTNGGAACCTGNGGGGCCCCCGGGGTTTCTGGTTT
TCCTTTTTNCNGCNGGAAAATTCTCCTGGCTAAAANANTCCCTTTTTTTTTTNGGTTTNC
CANAAGCCCTTTTTATAAATGCANNATANTGAATNGCTTGGGGAACNNAAAATAAANTTT
TTTTTTCCCANTCAAAAAAANAAAAAAAAAAANAAAAAAAAAANGGCGGGGCCCCTTANA
TTTTTTTAAAAAAAAAAACCCCC

Sequence 2003

TTNCCATCCCTCAGGTGCTGAGAACCAAAGTGCCTAGAGAAGGGCAGGAGGAGGATGACG
ACGATGAGGAAGACGATGCTGACGAGGAGGCTCCCAAGCCCGACCATTTTGTTCAGGACC
CTGCAGTGCTGAGAGAGAAGGCAGAAGCCAGGCGCATGGCCTTTCTCGCCAAGAAAGGGT
ACCGGCATGACAGCTCAACAGCAGTGGCCGGCAGCCCCCGAGGCCATGGGCAGAGCCGCG
AGACAACCCAGGAACGCAGGAAGAAGGAAGCCAACAAGGCGACAAGAGCCAACCACAACC
GGAGAACCATGGCCGACCGCAAGAGGAGCAAAGGCATGATCCCATCCTGAGACCTGGTGC
AGGGCCAGTGGGGAGGCAAGC

Sequence 2004

TNCACATTTTCCTCCTAAGCACATGGGTCATTCTCAAGGAGAGACCATATGTTAGGTCAC
AAACATTCAAAAAATTGAAATATTATCAAGCAACTACTCTGACCACAATGATGTAAAACT
AGAAATCAAAACCAAGAGGAATTTTAGAAACTATAGAAGCACATGGAAATTAAACAATCT
GTTTCTTAATGACCAGTGAGCCAATGAAAAAATCAAGAAGAAATTTGCAAATTGTTTGAA
AGAAGTTATAATGGAAACACACTATACTAAAACCTATAAAACAGCAAAAGCAGGACTAAG
AGGAAAATGTATAGCTATTAAAGTGCCTACATTTTTAAAAAATGAAAAAACTTTAGATAA
ATCACTTATCTATGAATTTGAAAAAAAAAAAAAA

Sequence 2005

CGGGAAGCTTTNTTTTAATTAAGCTGAAACCGAAGCTTTAATTTTAATTTAAATAGTTCC
ATGTGCCCATATTGGACAGTATAGCTCCAGGGTTTATTAAACCACCATTCCTGGTGATAG
GATAGAGCCCAGCACAAACTAATCTGGGCAACAAATCAAAGGGCACAAGTCGCATGTAGG
TTCCAAACTCAGTACATTTTAGAGAAAAGGAGTTTGATTATGTAGTAGAAGGAAGAACTG
CCTGGTGGGACTCATGATCTTCCTTTAAGAGCAAGGCTCAAAGACCTGGGGAGTTTTGAT
TTGATGCTATGATGTCTCCTGGGGCTCAGAATATTATGAAATGAGGAGTGAATCTCTGAG
TGAAAAGAACTCAAGCTGCTTGTTGCATTGCGGAATGTCTCTAAGAGGTAGAGAGGCGTC
TGTTAAGTGGCTTTGTATGAAGGTTTCAGAAGGTAAGATGAGCC

Sequence 2006

NCATTTAACTGTAATAGATATAGAACGTATCCTTCAATAACCAACAACAAATGCTTGTTT
CCAACAGGCTCTGATGGTTGTATATANGGAAACCTTGATACCAATACGTCCAGCTGACCC

TABLE 1

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AGAAAAAAATCAGAGCTTAGTTAAATCACTGCTGCTCAAGGCTGTTGTATCTGGNNACGC
TCGAAATGGAGTTGCACTCACTGCCCTGGATCAGGATCACGTCGCAGTCCTAGGAAGTCC
ACTAGCAGCTTCTAAGGGTAACTGACATCCAATTCATTAAGAAGGCCTTTGTATGTTTCC
TTCACGGTGTACCTTTTAGTCTTCCTTTTNTTTTTCATTTCATTATTACCCAGACTAAT

Sequence 2007

GTCCGGCCCTGCACTAGGGACTGGGGAGGACATGGAGAATAATATATGTACCAGCACAGA
CAGACAGGCAGCTTCTGGAGCCAGACTGTCTGTGTGATCTTGGGTAAGTAATCTAGCCTA
ACCATAGAGATGATAACAATTGTACCTGCCACAGGCTCATGGGGCTATTGTGATGGTGAA
ATGTAAAGATGTAAAGTATAGAGAAAGGATGTAAAACTGCCCGACATATAGTAAGGGCCA
TTTAAAAGATGCCTGTTATTGTCCCTCTTCTTGAGAGCATATTAAGGGCTCAAATCTAGC
CAGAGTCTGGCGGGTACAGAGGTAAACAAATAATGGCAGGTTGGTTAAGTACTGGACACC
AGTGATGTCCAAGGTCTCTAGGATGCCCTGGAGAAATAATGAACTCTTCTAAGATTGTTT
GGAAGGGGATTTATAAAGGACATCTAGGCTGGGTTTTGAGTGAGGTATGGGGAGTTCGCT
GGTCAAGAATGTANGAATTACAAAAGCANAAAGTGCCTTATTTNAAAAAAAAAAAAAA

Sequence 2008

NCCCCGCGTCCGGAAAATATTTTAGAAAGCACCTTGAAGATTAGTATTTTTATGTAACTT
CTGTTGGAGAGATGTCTTCAGGAGACTGAAGTAGAAGAGCGACTGTCAAAATGGAAAGTC
CCAGAGACATCCAATTTATGTAAATCAACATCACCTGAATTCAGAATCTCATCCAGATTT
CAACAAAGACTTCTGAATGCCAACAAAGAAGAGGACTGAATTTACAGACTCTCACTCTAA
CAATATATGCTGTTCAATTTGAAAACAGAATAAAATTATTTTGGCAGAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Sequence 2009

AGAGTGTNCAGCTGGCTTTCCTCACTTGGGAAAAGGGGTACTGCCAGTCTAAGCAGCCTC
CTCTGTACTCAGCCAGGACACCCAGCGCGTGGGACCTGTTTGTGTCTGTTTTGCTTCCTT
GGGAACGGCACAGTCACTCACCCTGCCATTTGCGGAAATGACCTGGTGCACTTTGACTGT
TAAGCAATGCGTTATTGCTGTAGTCAAGGTTAGTGCAAGCAAGGAAACATTCCCAGTAAG
GTATTTGTTTCCATTTTCTGTCTGTGCTTCTGTCAGAAACTTGCTAGGACTTTAGTGGCC
AATAAAAAAGAAATTCTAGCTTGATCGACCCACGCGTCCGGTAATGATTGATGAGGACAT
GACTGCCCGAATTAGCATGGCTGATGTCAAGTTCTCTTTCCAATGTCCTGGTCGCATGTA
TGCACCTGCCTGGGTAGCCCCCGAAGCTCTGCAGAAGAAGCC

Sequence 2010

GCGTCCGACAAACATAATGATCCGTGACAGTGACCTTAATATATAAATGTGTGTGTTGTG
ATTGTTCTACTGACCAGCCATTTCCTGTCTCCCTCTTCTTATGCCTCCCTGTTAAATTAG
ACACAACAACATTGAAATCAGACCAATTAATAACCCTACAGTGGTCTCTGAGAGAGGCTA
ACAGCTAATCCTCTTGTGCTAAACAGCCAAATTGTGAATGCAAAGGAAAAGTTCTCAAAG
GAAATTAAAAGTGCTACTCCAGTGAACACATGAATGATAAGAAAGTGAAACAGTCCGGGC
GTGGTGGGTCACGCCTGTAGTCCCAGCACTTTGGGAGGCTGAGGTGGGTGGATCACCTGA
GGTCAGGAGCTCAAGACCAGCCTGGCCAACATAGTGAAACCCTGTCTCTACTAAAAATAC
AAAAATTAGCTGAGTGTGGTGGTGCACACTTGTAATCCCAGACACTCGGGAAGCTAAGGC
CGAGAGAATCACTTGAACCCCAGAGGTGGACATTGCAAGTGAGCTGAGATTGTGCCACTT
GCACTTCAACCTGGGTAACAGAGAGAGACTCTGTCTCAAAAAAAAAAAAAAAA

Sequence 2011

GTCTATTAACATACGGAGCTGAATCTGCCGCAGCTNGAAATGCTCAAGAACCAGCTGGAC
CAGGAAGTGGAGTTCTTGTCCACGTCCATTGCTCAGCTCAAAGTGGTACAGACCAAGTAT
GTGGAAGCCAAGGACTGTCTGAACGTGCTGAACAAGAGCAACGAGGGTATGGGGTAGGCG
GGTGAGGGTAACCTAAAGTGGCGAACCTGCTTCTCTCGTCCCACCTCCTAACCCAGTTTT
TCTTACCTGAAACGAGAAAATCCATTACATATCGTATACCGCTTCATGAACCCTTTGCAT
GTTGCCTGCCTAGAATTGAAAAGTACAGGACATTCCTCTGCTCCTATTGCCCCTGTTTCC
GTTCTTTTCACACTGTCTGTGGGTGCTGTGCCCTGTTGGAACTCTCTTTAACGTCTTACC
GTTGGAGCCGCTTACCTTCCCAGGTGTTGTCTTCATTGGCTTTCACAAGGGAAAA

Sequence 2012

TABLE 1

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NGGCAGCTGCTTTGTCTGGGAGGGGGCTTTGTGTCGAGTCTCCCTGAATGAGCAGGGCTG
GCGACAGTTGTCAAAACACATGGTGCTTGGTCAGAGCCCCCGTAGAAGCCCCTTGTCCTC
CGCATGGCCTCCGCCTGCACCCGGGGCGTGGAATGTGCTCTTGTGTGTCCCTGGCTGTCT
GCTTGCTTCTACACTGGCCCCTGCAGATGGAGGGGGTGGGGTACAGGGGTTCCTATAAGA
AGCAGACACTTGGGGTTTTTCCCAGGCCCTGTTGCAGGAGGGTGCGTGGGCTGGTTTCCC
TGAAGGCGCCTGGGCCGTGTTGGTGTTAACTGATCTGAGATCTTCTGTGGCCCTGATGTC
TATGAGCATGCCCCAACTTGCANGGGGCTGAGTAGCCCGGGCACCACCAGGAGGCTTGCG
TGCCCTGTGCTTGGGTGTACCCATGCCCTGTCAGCATCGTTGGTCTGTTAGGGGTCAGGG
ACTTCGGCTTCTTGTTTAATACCCTNC

Sequence 2013

AAGTCGGACGCGTCTCAGTTCCTTAAAGCTGTTGGTCCAAGGCTACCCTCAGTTCCTTGC
CACATGGGCTTCTCCAACAAGGCCATTTACATTAACAAAGCCAATGAGAAAGAGAGTTAC
CGGGCATGGTCGCTCACACCTCTTAATCCCAGCACTTTGGGAGCCCGAGGCGGGTGGATC
ACTTGAGGTTAGGAGTTCGAGACCAGCCTGGCCAATATGCTGAAACCCCGTATCTACTAA
AAATACAAAAAAATTAGCCTGGCATGGTGGTGGGCACCTGTAATCCCAGCTACTCAGGAA
GCTGAAGCAGGAGAATCACTTGAACTTGGGAGTCGTAGGTTGCAGTGAGCCAAGATCGAG
CCATTCCACTCCAGCCTGTGCAACAAGAGCGAGATTCCATCTCANACAAAAAAAAGATNA
ANNAAAAAAAAAAAANT

Sequence 2014

TCCTATTCCTCTCTTGAGTTTATGCACATCTCTATAAATCATTAGTTTTCTATTTTATTA
CATAAAATTCTTTTAGAAAATGCAAATAGTGAACTTTGTGAATGGATTTTTCCATACTCA
TCTACAATTCCTCCATTTTAAATGACTACTTTTATTTTTTAATTTAAAAAATCTACTTCA
GTATCATGAGTAGGTCTTACATCAGTGATGGGTTCTTTTTGTAGTGAGACATACAAATCT
GATGTTAATGTTTGCTCTTAGAAGTCATACTCCATGGTCTTCAAAGACCAAAAAATGAGG
TTTTGCTTTTGTAATCAGGAAAAAAAAAATTAATGAACCTTAAAAAAAAAANANNAAANA
ACANGTGCGGCnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnGCATTTTTTTTNACTGCANTC
TAAGTTGGGGGGTTGGNCCAAACTCATCAANNNATCNTAATCATGGCTGGGATCCCCNGG
GTCCCGNGCCTCGGAAATTAAATTNCCTTTTTTCCGGTTTTCCTTGGGGTTTNAAACCTT
TGNGGNGAAANTTTTTTTTTGGGGGGGGGGGGGG

Sequence 2015

CGCGTCCTGAGAGGTCAGGCCGGTCCTGGGGGCAGCAAGCCCGGCCACACTCCCCACCGC
GACCGGGGCTCTGGGCTCGCTTCCTGCTTCAGTTTCCCCAAGCTCCNGATGAGACTCCGC
TACTACCACCACGTCGATAACGCAAACCTAGAGGGACTCAGGGTAAACTGAGGCACTCAA
ACTGCCGAGGAGCTCCGCCTCCCGAGAGACATTTAATCCGGGGGGGATTTGCAGGAAACTT
CTAAATTAAGGGTAGCGGCTGCTGCAGCTGAGGGGGGGCACACCGGTCCCTGCGCCCGGG
CAGCTGCCGTGAGCTCACGCCCCGAAATAGCCCCAGGGGCCCCAGCCGCAGCTGCCACTG
GGTCCGGCTGTCACTCAGAGGAAGCACGGAGCCCCCAGCCCAAGGGTCCCCTCCCCTTCG
CATCGCGGGGTTTTTCCAGCCGACCGTCGGCCACTTTTTCCTCCGACNGCTGGCAGGGAA
GAGGGGGATTGGGGGCCGGGACCCCAAGGGAGGCGGTCCCCAATGGGTGGGCCAAGGG

Sequence 2016

ACGCGTCCGCACACCCCCAGGTGCCCGCGCTGGCCCCCCAGGCGTGGTGGCCTGCACGGA
GGGGACCACTTACGTCTGCTCCGTCTGCCCAGCAAAGTTTGACCAAATCGAGCAGTTCAA
CGACCACATGAGGATGCATGTGTCTGACGGATAAGTAGTATCTTTCTCTCTTTCTTATGA
ACAAAACAAAACAACAACAAAAAACAAACAAACAAAAAAGCTATGGCACTAGAATTTAAG
AAATGTTTTGGTTTCATTTTTACTTTCTGTTTTTGTTTTTGTTTCGTTTCATTTTGTACT
ACATGAAGAACTGTTTTTTGCCTGCTGGTACATTACATTTCCGGAGGCTTGGGTGAATAA
TAGTTTTCCCAGTCTCCCTCGGATGGTGGCCTTAAGGCCTGGTAGTGCTTCAAGAGGTCC
ACTGGTTGGATCTCTAGCTACTGGCCTCTAAATACAACCCTTCTTTTACAAAAAAATCTT
TTAAAAAAAAAAAAAAAAA

TABLE 1

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Sequence 2017
CGCTCCGCAGCATCAAGAGTTATTTTTCTGACTGTCAAGTTTCAACATTCAGGTCTGTCC
CCAACAGGCACCACACCGGGGTGGACTCCCTGTGTAACTTCTCGCCACTGGCTCGGAGAG
TAGACAGAGTTGCCATCTATGAGGAATTTCTGCGGATGACCCGGAATGGTACCCAGCTGC
AGAACTTCACCCTGGACAGGAGCAGTGTCCTTGTGGATGGGTATTCTCCCAACAGAAATG
AGCCCTTAACTGGGAATTCTGACCTTCCCTTCTGGGCTGTCATCCTCATCGGCTTGGCAG
GACTCCTGGGACTCATCACATGCCTGATCTGCGGTGTCCTGGTGACCACCCCGCCCGGCG
GAAGAAGGAAGGAGAATACAACCGTCCAGCAACAGTGCCCAGGCTACTACCAAGTCACAC
CTAGACCTGGAGGATCTGCAATGACTGGAACTTGCCCGTGCCTGGGGTGCCNTTTCCCCA
ACCAGGGTNCNAAANAACTTTGGCTGGGGCAAGAAATNAAANCATATTTGGTCCGGAAAA
AAAAAAAAAAAAAAAAAGGGCCGGCCCTTNAACTAAGTCTAAAANAAAAAAACTTTCAAAA
CCTTCCCCTGGAACCTGAAACATAAAATGNATNGCAATGGTGGGNGGTNAACCTGGGTTA
ATTTGGCANCCTTTTTANTTAAAANTTGGGGGGGGGGTT
Sequence 2018
CGGATCAAGACCATCCTGGCTACAGTGAAACCCCGTTTCTACTAGAACTACAAAAAATTA
GCCGGGCGTGGTGGCAGGCACCTATNGTCCCAGCTACTCGGGAAGCTGAGGCAGGAGAAT
GGCGTGAACCTGGGAGGTGGAGGTGCAGTGAGCCAAGATGGCACCAGTGCACTCCAGCCT
GGGCGACAGAGGTAGACTCTGTCTCAGAAAAAAAAAAAAAAAAAAAATCAGTCACTGGAT
TTGGGCCCACCCTACCTNCATATGACCTCATGTTAACTTGATGACATCTGCAAAGACCCC
ATTCCCAAAAAGGTCACCTTCACCAGTAAGTNGGGGGTTAGGACTTGAATATAGCTTTTT
GGTTGATGTAATTCAACCCACAGCACTGCCTTTTNCATTCCATGTTATGTTTTTTGAGAT
TTTTGAGATTTGCCAAATATATGAAGCTATAAATTATCAGNGAAAATAAATAATTTCAAA
ATNTAAGCTGTTGAAAACTCTAAATTATTTTTAAGCCTTTAAAAGAAATGGATTTTTGNA
GACAAGGNCCCGNNNGGGCTTCAATGCCTNTAATCCCCANCACTTTTGANANGGCTGATT
GGGNGNGNGGATTCCACCTTGAGGGTTTAGNGGNTTTCAAAGACCAAGCCTGGNCNCTAN
CGGNGGTTGAAAACCCCTGGTNNTTCTNACCCTTNAAAAAAAA
Sequence 2019
GTTTTTTTATTTCTACTGTCAAATGATGTGCAAAACCTTTTACTGGTTGCATGGAAATCA
GCCAAGTTTTATAATCCTTAAATCTTAATGTTCCTCAAAGCTTGGATTAAATACATATGG
ATGTTACTCTCTTGCACCAAATTATCTTGATACATTCAAATTTGTCTGGTTAAAAAATAG
GTGGTAGATATTGAGGCCAAGAATATTGCAAAATACATGAAGCTTCATGCACTTAAAGAA
GTATTTTTAGAATAAGAATTTGCATACTTACCTAGTGAAACTTTTCTAGAATTATTTTTC
ACTCTAAGTCATGTATGTTTCTCTTTGATTATTTGCATGTTATGTTTAATAAGCTACTAG
CAAAATAAAACGAGTTGACCCACGCCGTCCGGACACAAGAAAGGAATATAATTCATACAC
TATTGCATTTTTAATAAATCTTTTGAAATTTGCAGAATTAAGATTGTATTGTGTATTTTC
GGTTAAATGATAATTGAATGTAAATATTTAAGATGCAGCACCATATTTTATAACCCAGCT
TTAGGCATTTCTTCATATTTTAAGGGAAACCCCCCACCTCCTTCTTTTAANGGCGCTTCT
TGCTCTCTGAAATGCCCTGCTAAATGCCTTCTCTTAATTATTTGGAATAANGGTAGGTTT
TTGGGGGAAAATTTTAAAAAAAAAANGGGGGGGNAAAAAAAA
Sequence 2020
AATTTTTNATAATCTGAATTATCACAAAAAGATAAGGATTTTTAAAGTTATTTGGAGGGA
GTGTACACATTGTTTATTTAATAGTGAGGGCTATTATACAAGCNGGTCNATGTAAAATAA
TCCCTTTATATGTATGAGCATAGTTAATTTGGTAAACAACAGACAATTACATACTGTGAT
CATAAGGACTTTAGTATCAGTTACCATATAGCAGGTACTCTTTAGTCAGGATATACCTAT
ATAGGTGCTAAATTAAAAATCAACCTTATATCTCAAATTTACTTCCTAGTAGAGTGTAAC
GCTGCCATAATTGCAAGCCTAATTATGGGGTTGTCCATACTGCAGTCCCATCAGTACTCA
TACACCAAAGGGTCGGGCCTGTGAAGACTGGAAAAAGAATAAAATATCTTTTGATTGAGA
TACTACAAGCAAAAATGACTTTCTGGCTACCATTACTGCAAAGAACAAAACTCAACTGAA
AACAATATGTAGCAATTAAAAAGTCTCATTATCTTCAAAACACAC
Sequence 2021
CCCGCGTCCCGGAACTCTTACCCATAACCCTAATGATGCAAGTCATATGGGGGAACACTT

TABLE 1

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TGTAAATGGTCAGGATAAAAACCAAATCTGGGTGCCAGATCCCAGCACTACTTTTTATTA
CTGGAGAAATGGGGGGGATAGAAAATTCTACTTTGAATTATTTAGTTTTTTTTAAAGAGT
GGGTTGTGTTTGTGCTTCTCCCACCTTTCAAGCATTTATAGAACATGCTGCCCCACATAC
AAAGTCAAGACCACTTACTTTTATGTGACACTAGTAGTTTGGGGTTAATGGTTTGNGTAA
AGAACAAGCTGCATATGAGTAAAGGTTACCCCAACCCNCAGTGAGGANGAAAGATGTTCA
CATACTGGGAACTGTCCTGNCAAATAAATNTGGCCCCTATTGGGCTCTGTTTTAATTNGG
AAGNGGGCAAAAGTAACCTCTTGCTTTGGGGCAACTATTTGGNNTCAAAATTANAAACCT
TTTAGACCCAAANTTNANNNNNNNNAAAANNGNNNNNNNANGGGGCCGGNCCCNTTNGAC
CTTAGTTTTTANANAAAAAAAAACCTNCCACACCTTCCCCTTGGAACCCTGAAACAATAA
AAAGGAAANGCCANTTGGGGGGGNGGGTAAACCTTGGTTTNATTGGCACNCTTTATAAAN
GGNTTNCCAAAANAAAAGGCAATTTGCCTTTCCCCAAANTTTTCCCAAANAAAAAAAGGG
CCTTTTTTTTTTT

Sequence 2022

ACCACGCGTCCGGTCTGCAGAGGCCCGGGCCTGGGCACAAAGGGAGAGAGGCCTCCATTG
TCCCGCAGGGGCCAAAATGCAGACCGTGCATCCCCGGTGACCTCGGGGACCGTNCTCTGA
TCAGCAGGATTTTCTTGGACTCTGGGGTCCTTGTCCTGCTCAGGCATCCCTGCCCTGCTC
TCCTTGAGGGCCCTCAACACTATCTTCCCTGGACACAAGTCTGGGGACAGCCGGGTGTTG
AGGACCCCAAAGGGGTGACTACCTGCTCCTGGGCCCCACAGAGTCCTTGTGCTCAGTGTA
GTGGCTGAGCTGGGGGATGCCCTGGAATTCGGAGCACACAGCACTGGCTTACTGTGGTAC
CTGTGCAGTGAAATTGGAGACAGAATCACCAGGATGGAACACAGGTCTTGCAGGATCACG
GAAAACCTTTTAGAGTTGTCTTGACACCACTTGATGTTGAGTGTCCGGGTGTTTGTAGGA
TGGCCTGCACTCAGTCCAGGGGCAGG

Sequence 2023

CGCGTCCGCTTGACCCTGTATTTTGGGAGTCGAACGGAGAATGGAAACTGAAAGTGGAAA
TCAGGAAAAGGTAATGGAAGAAGAAAGCACTGAAAAGAAAAAAGAAGTTGAAAAAAAGAA
ACGGTCACGAGTTAAACAGGTGCTTGCAGATATTGCTAAGCAAGTGGACTTCTGGTTTGG
GGATGCAAATCTTCACAAGGATAGATTTCTTCGAGAACAGATAGAAAAATCTAGAGATGG
ATATGTTGATATATCACTACTTGTGTCTTTTAACAAAATGAAAAAATTGACTACTGATGG
GAAGTTAATTGCCAGAGCATTGAGAAGTTCAGCTGTTGTAGAGCTTGATTTGGAAGGCAC
CAGAATCCGGAGGAAAAAAC

Sequence 2024

CGCGTCCGCAGACTTTCCCTCTGCAATAAATCCTGTAACAAAATTGCACTCGCACCCCTT
ACGTTTATACAAATTTTTAAAATAAATAATAACTAGAAANGCAAGAGGAAACCAAACCCA
AAATTATTAGAAGAAAAGAAATGATAAAGATTGGGGCAGAAATTAATGAATTGATACTAA
AAATAGTACAAAAGATGGATGAAAGAAAAAGTTGTTTTTTTTTTTTTAAAAGATAAGCAA
AATCAACAAACCTTTAGCCGGACTGTAAAAGAGAGAATATCCATATGAATAAAATCAGAG
ATGAAAAAGGAGTCATTACATCTGATAACACAGAAATTCAAAATATTTTAGAGACTATTA
TGAGCAACTATATGCAGTAAATTGGAAAACTTAGAAGAAATGGATGAATTCCGAGACACA
TAAAAACATACCAAGATTGAACCATGAAGAAATCCAAAACTTGAA

Sequence 2025

AATTATCCTGGTGTGGTGGCGTGTGCCTGTAATCCCAGCTACGCTGGAGGCTGAGGCATG
AGACTCGCTTGAATCCAGGAGGCAGAGGTTGCNTTAAGCTGAGACCACACCACTGCACTG
CAGCCTGGGTGACAGAGCAAGACTCCGTCTCAAAAAAAAAATAAGCTATTGATGGGCTAT
ATATTGTTAAGCTATAGGGTGTGGTTACAGTGTCCAGTGTAGCATTGNTCGATTAATTTA
TAGCCTCTTGTGGCAACAGCAAGCAGNTTCCAGAGATGAATACACAGCTTGAGTAGGCAG
GGGGGAGTAGGACATGACGGCTGCCTCATCTTAACACCTTGGGCCTGATAATTTAAAAGG
ACTCACAGTCCTCAGATAAACATGACTTTCTTTTCTCATGAGGAAACANANAAGGTGGCT
AAAGGGTATNTCTTTCTCTCATGATCCCAAACCTATCAGGTTT

Sequence 2026

ACCNCGCGTCCGGGTGCTGTACCAGACCAGAGGCCAGCTCCATGTCCTCCGCGTCGGCAA
TGATACCCACTGCCAACCAACAAAAATTGGCTGCAACCATCCCCTACCAGGACCCGGCCC

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CTACAGGGTGAAGTTCCTGGTGATGAATGACGAAGGACCCGTGGTGAAACCAAGTGGTCC
AGCGACACTCGCCTGCAGCAAGCCCAGGCACTTCGGGCTGTCCCCGGCCCCCAGAGCCCG
GGCACCGTGGTCATCATCGCCATCCTGTCTATCCTCCTGGCCGTCCTCCTCACGGTCCTC
CTGGCTGTGCTCATATACACCTGCTTCAACAGCTGCAGGAGCACTTCCCTATCAGGCCCA
GAGGAGGCAGGGAGTGTGAGAAGATACACCACGCACCTCGCGTTCAGCACTCCTGCCGAG
GGGGCTTCTGAGGGGTTCCAGAGGGGCCCACGTGTCCCTCCACCTCCTCCCTGGCCCAGG
CTGCAGAGCCTGAGCTGGGACACGCCCTGAAGCTTCTGGACCCTGAGAGAGATTGGTTCT

Sequence 2027
GCTGCTAGAAAAGGTTAGACTAACTGGGAGTTCATAATTTGTCTTGGAGATTTAAGAAAG
TTTTTGAAGAGGTTTTCTGTGTTGAGATGAAGAGGAAGATTGAGACAAAGCACAATGGAG
AGTAGGGGAGAGAGCACTTCAGAATGTTTGAAGGTGCTAAGAGGAAGTGCTTGACACACG
GGAGGAACTGAGAAAGAAGGCTAGGGCCATCGGCTGGAGGGACAGGACAGGTGGAGATGT
AAGCATGGGCCTCCAGACCATGGTAAGGCCACTGGATCTTTACTTTAATGCATTTGTGCA
TGTGATTAAAAAAAAAAAAAAAAAAAA
Sequence 2028
CCCCGCGTCCGAAAAAGACATATGTACAAGTCTATTTCCTATAGCACTATTTGTAATACC
TAGCACTATTTGTANTATCTAAAGACTGTAAACAACGCAGGTGCCCACAAAGGGAAAATG
GTTTGACAAACTTACGAACATCCTTTTAAAGGAGTACTAGACAGGTCAAAAAGGAATGAA
GAATGTATATATTACTATGGAGTGAATCTTCAGGGTATATGACTAAGTGAAAAAATGCAA
GGTGAAGTANTATGTAACATATGGTACAGTTTACTTAAGAGAGAAATACAGATGTATATA
CACATTACCTAAAGCAAAATGAGGACCCTACTGGGCTGCCATCCCAGCTGGACTGCTGCT
GTGGAGCTCAGCATCAAGTACT
Sequence 2029
CGCCCCGCGTCCGGAGAGAGCTGTCTTTGCAGTTACTAGGTTTCATCAAACTTGTTTTTT
TCAGTATGGTAGGTTTAAAAATGGGGATACATTTTTGTTTTTATTTGCATTTTNNAATAT
TTTCTTAGGTTAGTTGGCTACTTAAATTTCTTTTTCTGAAAACTTTGTATTTATAGCCTT
TTAAAATTCTTATTGACTTGCCTGAACTATTTGTAAATTACAGAAATTAGCCCTTTGTCG
TATGTGTTGCAGGTGCTTTTCCAGTTTGCCAGTGGTCATTCATTTTGGTTTATGGTACTT
TTGATAGACCAGAATCTTTGACTTTTATTTAGTGAGATTTATCCATCTTTTTCTGTGTGG
CATCTTGGTATTATAGCATTAATATTCTCTTTTCT
Sequence 2030
CCACGCGTCCGGTTGGGACGGCACCAGGCGAGGTGTTGAGTTGGCTCGGCTCAAGGTTCT
TCGGGGTGTGAGCTGGCATGAGGACCTGTTGGAAGTGGGATCCAGGCCTGGNGCAGNCTC
CCAGCTGCCTCGATTTGTGCGTGTGAACACTCTCAAGACCTGCTCCGTTTATGTAGTTAT
TTCAAGAGACAAGGTTTCTCCTATCAGGGTCGGGCTTCCAGGCTGGATGGAGTGCCCTGG
CGCGATCTCGGCTCACCGCAACCTCTGCCTCCTGGGTTCAAGCGATTCTCCTGCTTCAGC
CTTCTGAGCAGCTGGGATTATGAAGGGGT
Sequence 2031
NCCCCGCGTCCGGCTCAAGGAGGTGATTAAAAGAATGTGTAATTTAGTATTTTTAAGATG
TTTAGAGTTTTAAAAACTTACGTTGTTGCTGTCATTGTATTTAAATAGTNATAAAGAATA
TAAACTGATATAAGTAATTTTTTTTTAAATTCTTCAGATATAATGAAGATCTGGAACTTGA
AGATGCCATTCATACAGCCATCTTAACCCTAAAGGAAAGCTTTGAAGGGCAAATGACAGA
GGATAACATAGAAGTTGGAATCTGCAATGAAGCTGGATTTAGGAGGCTTACTCCAACTGA
AGTTAAGGATTACTTGGCTGCCATAGCATAACAATGAAGTGACTGAAAAATCCAGAATTT
CAGATAATCTATCTACTTAAACATGTTTAAAGTATGTTTTGTTTTGCAGACTTTTTGCAT
ACTTATTTCTACATGGTTTAAATCGACTGTTTTTAAAATGACACTTATAAATCCTAATAA
ACTGTTAAACCCAAAAAAAAAAAAAAAAAAAA
Sequence 2032
CGACCNCGCGTCCGGCGTTCTACCCTTCCGGCCCGTGTTCTATCCGCCGCCTCCACCTTC
CATNCGGCGCCGGCTTTCGGCGCGACGGTCGCCGCGTTCCATCGTCGCGCGGCCCTTCGG

TABLE 1
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GCGCCCGAGCCCGCAATGTCGGGCCCCAACGGAGACCTGGGGATGCCGGTGGAGGCGGGA
GCGGAAGGCGAGGAGGACGGCTTCGGGGAAGCAGAATACGCTGCCATCAACTCCATGCTG
GACCAGATCAACTCCTGTCTGGACCACCTGGAGGAGAAGAATGACCACCTCCACGCCCGC
CTNCAGGAGCTGCTGGAGTCCAACCGGCAGACACGCCTGGAGTTCCAGCAGCAGCTCGGG
GAGGCCCCCAGTGATGCCAGCCCCTAGGCTCCAAGAGCCCCCAACCGGGACCCAACCCTG
CCTCCCTGGGCTAGGCTCTGGCCTGGGCACTCACCCCCTGGCTTAGACACCTTCTCAAGG
GCTGGCCTTCAGGGACCCCTGGTGGGTCTGCTGCCTGGGCCACCCTTCTGCCTGGGCCTN
CCCTTG

Sequence 2033

CGACCACGCGTCCGCTACCTCAAGGNCCTGGGCACCGAGCGGGCCTACAAATCCGCACTG
GACTACACCAAACGAAGTCTGGGGATTTTCATTGACCTCCANAAGAAAGAGAAGGAGGCG
CATGCCTGGCTGCAAGCAGGGAAGATCTATTACATNTTGCGGCAGAGCGAGCTGGTGGAC
CTCTACATTCAGGTGGCACAGAACGTGGCCCTGTACACAGGCNACCCCAACCTGGGTGCT
GGAGCTGTTTGAGGCGGCNTGNAGACATCTTCTTCGACGGGGCCTGNGAGCGGGAGAAAG
CTGTGTCCTTCTACCGGGACCG

Sequence 2034

GGGGGGGAGGGGNGNAAAAAAAAGNGANGGACAAANAAANAGAAAAAANAAGANANAAGA
AAGNNANAAACANNNNAAAANACNNNGGNAANCGGAGAAAAGAAAAGAAANNNGNANANA
GAANANNANGAGGGGNCAAGGNAGAAGAAAANNNGANAGAAGGGGNNAAAGGGGGNCGGG
AGAAAAGAAGNAAAAAAAAAANAAAANNNGAAAAAANGGGAAAAATNNGGGGAAANNGGA
AANNAAAGAAAAAAAAAANANCNGNGGNAAAAAAAAAAAGGANNNAAAAAANNGGGNAAA
ANANGGNNAANGNANANANAAAAAGNGGGGGGGAGGGGGGAGGGNAAGGGNNGAAAAANN
NGAAAGAAAAAAGAAAGAAANAAANGAANAANAGANGGAGANGNAAGGNAAAAANAANAA
AAAGNNNNNAANAANANGAAAGGGNAAGNAAAANGGGNNNNAAAAGAAAAAAAAAAAGNG
GNAAAAAAAAAAANNNNGGAAAAAAAAAANNNGGNNANNNANNCCAAAAAGAAAAAAAAA
AAAAGGGNNNNAAGGGGAAAAAANAANAAANANAAAAAANGGGGAGGNGGCNGGNAAAAA
AAAAANGNNAAAAAAAAAAAAAAANNNAAANAAAAANANANANNGNAANANNNNANAAAAN
AAAAAAAAAAAGAAANAAGNGGGNNGNAAAANACNNAANANNGANANGNANAAAANNGGG
AANAAAANAAANNAAAAGNNANAANGAAAAAAA

Sequence 2035

CCCCCCGCGTCCGCGTTTTTATGTGTGTATGTACAAAACAAAATACCTTTTTGAAATTAC
ATAAGTGATACATGCTTATTGTGAAAGAGTTGGATAATACAATATACTGTAAAGAAGATG
AAAACCACTCATAAATTCCAACCTGTAAATACTTTCGTGTTCATATTTTGGCATCTAATG
TATCCTTTATGTATATTTAAATATATATTTTATTCAAGTATAGGATCATGTACCTCCCTG
TTTTATAATTTTCTTTTTTAATTTTTCAGTGTATTGTGGACATCTTTTCTCATCAACAAA
TACATCCCACAATGTTCATTTTTGTGCCTCATTATACCATGGAATAGTGACATCCTAGTA
TGTTTAAGACATTCCTTATTAATGAACAATTAGGCTACTTCCAATTTTTAATTATAAAGG
ACATTTTGAAGGACTTCCTTGTACATATTATTCTATTGCTTTATCATCTTTTTGGGATAA
TTTCATGTAGTATATTTCCAGTTATTTAAATGAGAAAGTACATGGTTTATAACAAATGGT
ATTTAACGTCCAAGTCACTGCTATCTAAAGGGGTAATTTTTAAGGTATAAAATAATTTGG
CTTATAAAAAATCGTGGGAAAAATATNCTAGAAATATTTAANGATTAACTTCTAAATTGT
AAATTGGCATATTTAATGATAGAATTCAAAAAAAAAAAAAAAAAAAAA

Sequence 2036

CGCGTCCGGAAGAAATTGTGCACCCTCCCAAAACATACAAAGTTTAAAAGTTTGGATCTT
TTTCTCAGCAGGTATCAGTTGTAAATAATGAATTAGGGGCCAAAATGCAAAACGAAAAAT
GAAGCAGCTACATGTAGTTAGTAATTTCTAGTTTGAACTGTAATTGAATATTGTGGCTTC
ATATGTATTATTTTATATTGTACTTTTTTCATTATTGATGGTTTGGACTTTAATAAGAGA
AATTCCATAGTTTTTAATATCCCAGAAGTGAGACAATTTGAACAGTGTATTCTAGAAAAC
AATACACTAACTGAACAGAAGTGAATGCTTATATATATTATGATAGCCTTAAACCTTTTT
CCTCTAATGCCTTAACTGTCAAATAATTATAACCTTTTAAAGCATAGGACTATAGTCAGC
ATGCTAGACTGAGAGGTAAACACTGATGCAATTAGAACAGGTACTGATGCTGTCAGTGTT

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TAACACTATGTTTAGCTGTGTTTATGCTATAAAAGTGCAATATTAGACACTAGCTAGTAC
TGCTGCCTCATGTAACTCCAAAGAAAACAGGATTTCATTAAGTGCATTGAATGTGGCTAT
TTCTCTAAAGTTACTCATATTGNCCTTTGCTTGAATGCAATGCCCGTGCAGATTATGTGG
CTGCTATTTTTATTTTCTGGGCATTACTTTNACACCNTAAANGGAGAAGCNAACATTTNC
TTCTTCACTGACTGGCAATGGNCCTTTACTGCAATAGGAAGAAAA
Sequence 2037
CCCCGCGTCCGGCTGGGCTTAAGGGATCTTTCCCAGGTAGCTGGGACTGCAGGCATATGC
CACTGTGCCCAGCTGCTCCCTTAGTCTTGACTATGTATTTTTTTTTTTTTGGTTGTTTTA
TTAGGATAGAGTCCTAAGAATGGCATTACTGGGTTAATAGGTATGAACATTAGATCTTTA
ATACATACAGTCGAATTACTTTTCATAAAGCCATATACCTTTTTATATTCCCACCGATAC
TATCCCTATCACTAAGTATTAACTTATTTTCATCTTTGCCAATATGATCATCCAAAGTGA
GGCAGAGGTTGCAGTGAGCCAAGGTCACACCACTGTGCTCTAGCCTGGGTGCCAGAGTGA
GACTGTGTGTCAAAAGAAAAAAAAAGGGGGGGGTGCCGGGTGCGGTGGCTCACGCCTGTT
ATTCCAGCGCTTTGGGAGGCCGAGGTGGGCGGATCACCTGAGTTTGGGAGTTTGAGACCA
GCCTGACCAACATGGAGAAACCCTGTCTCTACTAAAAATACAAAAT
Sequence 2038
GTCGACCCCGCGTCCCGGACGCGTGGGTCGGCCATGAACAAGTTTTCAAGTATCAGTTGA
TTTATGATATAGGCTTATCCATTTGGTTATAAAATCATATGTTTATTACATAATCATTGA
CAAATAGTTTCTGTATAATAACTGGCAGAGTAGCTCTAAAACATATGCAAGGAAATAAAT
AAAGAAAAAACTTACAATAAAGAGAGTAACTCATATTTTAACAGTTTTGTGAAAAAAATA
GAAAATATTTTATGTAGCTTATAGTACATATATTTTTTTACAACAGAAGAATCGCATTCT
GATTTTCCATATGGATCATTTCCCTATGTTGCTAGACCAGTACACTGGCAACCTGGTCAT
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ACAGTAACTGACTTGAAGATGGAAAAATATCAAAATAGAACTTTATATTGAAAATCACTG
CTTCCATAGATTGGCATTTTTAGCTATTACTATGACTTATATAACTTATACATATAATTT
TGAAAATAACAACTAAAAGATGTATAACATAGCCAAAACTGCTTAAACCATCCATTTTGA
CCACTTGTCTTGCAGNTAGTTTTGACATTTTGTAGGTTAATGGATTCCAAATTGGTTTAA
GTGGGCCATCTCATTCTTCACTTTCTGGNAANCCACTCCATAGATTTGGCTTTTCTTCAG
GAAAATTAAGNTTCCTTTNCCTTTATTTGGATTGGANGGNCATTGGCCTACTGGAAAANA
AATATGCCTTTTTAGGGTTAAAAAAAAAAAA
Sequence 2039
GTCGACCNCGCATCCGACCACGCGTCCGCCAGACCTCACGTCAACCGGCTGCACCCCACT
TTCCAGCCTGCGCCCCAGATCTGCAGCCTTCGCCCCTAGATACACCCGCCTGGTGATGAG
GCGCTCCTCGCGTTCCTTCCGGGCTCCAGGTGTCCGTGAGCCTCCCTTCCGCCCTGGCCT
CCGGTCTCTGCCTTGCTCGTGCTTCTACCACCACCCTTCCCCTCCCAACCCGGTGGATCC
TCTCGTCTCCCCCAGTCTCCAGTGCACCGGCTTTCCCTCGTCCTCTGCGCAGTCCATCTC
AGCTCATCTCTCCAATTCAATGCCATCATCTCTCCTCACCATCTCTCGGTGCCCTGGAAT
GTTTGCTGTCAAGATGTCCCCTGTGAAACCCACAAACGCTTGCGATTTGGCCTCCTTGTT
TTATTTTGTGTAGTCCTACAACGTCTTGTTACTACCCCCTATTACAACACTTATAACTCA
NAANGAAANAGNNNNNNNNN
Sequence 2040
CGTCCGCGGAGATCCGGCACACTGCGGACCGCTGGCGCGTGTCCCTGGATGTCAACCACT
TCGCCCCGGACGAGCTGACGGTCAAGACCAAGGATGGCGTGGTGGAGATCACCNGCAAGC
ACGAGGAGCGGCAGGACGAGCATGGCTACATCTCCCGGTGCTTCACGCGGAAATACACGC
TGCCCCCCGGTGTGGACCCCACCCAAGTTTCCTCCTCCCTGTCCCCTGAGGGCACACTGA
CCGTGGAGGCCCCCATGCCCAAGCTAGCCACGCAGTCCAACGAGATCACCATCCCAGTCA
CCTTCGAGTCGCGGGCCCAGCTTGGGGGCCCAGAAGCTGCAAAATCCGATGAGACTGCCG
CCAAGTAAAGCCCCTAGCTTGAGTCGACCCACGCGTCCGATTTAAATATTTGTCCCATTG
TTTGTGATTAGGATGTAAGCTTTGTGGAATGTAATTAACCCTGCTTTACGAAGTCACCAT
ATTATAATAGGAAAAACACTGCCTAGGAGGCAAAGAGATCTGAATTCCAGTTCTGATGCT
GCCACTGTGTAAGGAAGTAGTTTTATAAACCATGGGCAAATCATCTTGAGCTTTCTCATC

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TGTAAAGTTAGGGG
Sequence 2041
TCGACCNCGCGTCCGAAAAACCAAAACCTGANTGAGATCTTGGAACCGNTGTGCGCCGGC
CGNNCCTCTCCCANGGGACCANCCANCCCCGCGCGGTGGCCGACTGNATAGGCGGGACTG
CGCTTCGAGGCTTAAGGACGNCAGATCGGAGGCATCGTGTGTTGTCTGTGCGGAGAAGCC
AAAANNGTGATTACGTTTATTTGCAAGACCGTTCATGTTGTTTTCAGTTCATGGTATGAT
TAAAACCCGATCCTTTGTTACCATGCCCTTAGGTACGAAAAAATAATTGTTTNGATATTT
GGCAGTCACCCAAAAATATCCAAAAAGCCATGAAACAGTANAGGTAAACAAGTANGAAGT
GAAANTAATNTTCGTCCTTTGTTTTCTTTCTGGAGGTGCTCAAAACACCCTCTCAAACCA
TTTTTCTCAGCATAGAACCAAGTGTGGNCNGGNTANCAGCTAATATTTACNAGGGNAGAA
ACGAACCCTNGCGATATTTAGTCACTTTGTTNCCNGGGANCACANAAAATNTTGAACAAA
CACATGAGAACTGTCACCGATCTCTGTATTGATNACCANGGATACCCGTGAATTTTATGT
AATATTAATCTNNGGNAGGCANGANTNTTTNNTAGGTATTTGCCTTTTCCAAGGTGCNCT
TTCCNTACCAAAGGAAAANGGTTATTTTAAAAACTTTTACCANAANAAAGGGGATGNCTT
ATTTTTTGGTCCT
Sequence 2042
NGGACTTGGTTTGAACGCGTTTTCCCCAAAGTTTATGTGTTGGAAACTTGACCCCCAATG
CAGCAGTGTTGGAAGGTGCCTACTAGGTGGTGTCTGGGTCATGGGGGTATGACCCTCATG
GATGGATAAATGCCATGACTGAGGCGGTGGGCTCCTTATAAAAGAATGAGTTTGGGTGAA
ACCTCGTCTCTACTAAAAATACAAAAATTAGCTGGGTGTGGTGGCACATACCTGTAATCC
CAGCTACTCGGGAGGCTGAGGCAGAATGGCTTGAACCAGGGAGTCGGAGGTTGCGGTGAG
CAGAGATCGCACCACTGCACTCCAGCCTGATGACGGAGCAAGACTCCGTCTCAAAAAAAA
AAAAAAAAAAAAAA
Sequence 2043
GAGAAGCCTGGGGGTCCTGGCTGAACTGGGCTGGGTGAAGGGGGCCCCCTGACCCCCTTG
GGGTCCGGGCTGGGCTGGGTGAGGGGCGGTTTCCGACCCCCAGCCAGGTTCCCAGGCAGG
ATGAGCTGGGGTTGGGGTGGCTAGGCCGTGGGCCTTGGGAGCTGGGCAGTCTGGGCTGGG
CTGGGCTGGGCAGGGCGCCACATGGAAGCTGGAGGAGCAACGGGAGCGCTGGGCGTGGGG
TGCAAATTGCCCAGTGCCTTCTGTTTCCCAGGCAGCTCTGTGGCCATGGATATGTTCCAG
AAGGTAGAGAAGATCGGAGAGGGCACCTATGGGGTGGTGTACAAGGCCAAGAACAGGGAG
ACAGGGCAGCTGGTGGCCCTGAAGAAGATCAGACTGGATTTGGAGATGGAGGGGGGTCCC
AAGCACTGCCATCAGGGAGATCTCGCTGCTCAAGGAACTGAAGCACCCCAACA
Sequence 2044
ACACTCATCAATTAGGTTTTATTTTTATTTCTTTCCTCTACCCCCAGAAACAAGCCTGTT
AATTTTTTTTCCTTCTCCTCTGGCGACTGTGTGATGAATCCTTTCTTGCGTGATCAGGTT
GCGGATAGACTTGTAAGGGTGTTTGCTGCATACAGTGTAAGCATTGTGACCGCCAATAAA
CTTCAATGGTTTCTACTGAAAAAAAAAAAAAAAAAAAAAAGGACGCGTCTACTTCCCACTG
GGTCCCTCCCACAACACATGGAAATTCAAGATGAGATCTGAGTGGGGACACAGCCAAACC
AAATCAAAAGGATATACAAAATAACCAGAAAACAATGAACAAAATGACAGGAATAAGTTC
TCACCTATCAATAATAACTTTGAATATGTGTTAAATTACCTACCTAAAAGATAGAGACAG
GCTTAATGGATAAAAAATGACTCAACAACCGTCTACAAGAAACTCACTTCACTTGTAAAG
ACACACACAGACTGAAAGTGAAGGGATTGAA
Sequence 2045
GCCNCGCGTCCGTGAGAATACACAAGGGGGCACGCTTCCAGTAGATGTGTTGGGGAAGGA
GGAGGGCAGAGGGGACAGGGGACAGGATTCAGCTTTGTGGTGGGTCCTGAGGGTTCCTAC
CAGGGGTAGCCAGGATCTGGGAAACAGATCAGCGACTCTAGTCTGAAGTGGCTGCCTGGT
TCGGGGGCTGCCTTCAGCAAGATTCAGGCAGGAGAGACGGAAATAGCCACCTTCCAGGCG
TGAGTCCTGGAGATAAAAATGGATTTTAACCTAGGACTGCCGGGAGCTGGCCCTCCGCGG
CTGCTCAGACTAGGGCTGTGTGTGCTGGCTCTCGCCTGTTTCCGGTGTCTAACTGGCTTG
TTTCTCTTTATGGCTTGGCTTCATTCCGACCTGGGGTGGGGCCACATNCAACCCACTGCC
CACTGGCTGTCCGTCTGGCCTGCCCCCGCGGTTTCAACCACANTGGTGAAACAANCCTTG

TABLE 1

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CAAGATNTACAACTCGCAACACCGGGTCAAGCAATCAGCTGCATTCCGGACCGGTGTGNA
AGACCGAAGGGG

Sequence 2046

CCCCCCGAATATCTTATCCTTAACATTAAATTGAATTTTTTGCAAATGATCAAAAGGTCA
TTCCGAGTAAATTCTGTTGTATAGTGCAGATGATCAAGCTGAGTATTTGCCATGTTTTTA
TTTTAGAAAAGAGATGTTGCTATAACATAAGTAAATACGATTCTCGTATGTGGCAGATAA
ATTTACTTGTAATCTGCTCTAGAGTGAAATTATTTTTTACATATAAGCATTGTCATCATT
CTAAGGATTATTGAATAATGAATATAAAATGTTCTTGTGTATTTGTGTATGTGTATATAA
TTTTTTGAAAGTTTCTTTATCCTATTGACCCTTCTCATAAACAGNAGCATATATATATTA
TATGTAGTAGAATTTATATAGGAACATTGTCTTTTTCCCAGTAATGCTGATTCTAAACTA
GTTATGTCAATTTCATGTAACATGACATTNAGAATAGTGGGGTGCTAAATATATTTAGAA
ATGATTTCCAAAATTGNTGTATTTCTAACATAGAANGATATTTGTCATTTTAAAATAATG
TAAAGAAAAAATGC

Sequence 2047

GCACCCCTCCCTGTTGACACAGCCTGGATCCAGAGTTCAGCAGACCTTGAGACAATGAAA
ACAAACTTAGTAATAATCATTTTTCAATCATTGCAGTAATTATTGATTTGGACAAAAATC
AATTGACGTCAAAACCTTAAAGTGACGTTTCTCTGCCTATGGAGTGGGTCATTCTTTTAT
TCCTTTAGTTTCATAATAAATTTTCTTTTACTTAAAAAAACTTATAGTTTGATGAAGAGT
GAGATATATACCTCATCTCAAAGAATCTTCACACACACACTTATTAATTACAAAAGGAAA
ATCAGTAATTTTGCAGTGGAGACATATGGCCAACTCCACCTTACCCAAGTGGCTGAAAGT
CACTGCACCAGTAATGG

Sequence 2048

AGAAAAGCCNAGCCAACAGCTCTTAAAATCAGAAAAAACAANGGGAGTCCTTCCTTGTCT
CNTCTGTGNTCNCNGGCCTTGTCTCTGAGACTNTCTGTGCCCNNAANCNNTNTNNTNGCT
NTNANCTGATTCTANTTTTGNTNCCCATGGAATCTGTCCTAAGACTGGGGNTTTTTGNCA
NATGACAGNCTTGCCNGNACNCAAATATCATAACAGCATTTNNNANCGANTTTTGCNGAT
CAAGTAANATANTTGCNTGACAATGACAGCTTTTTAACTCTTTCAAAGTCACCTAAAAGC
TATTATTGCAGGAGGATTTANGAAGTCACATTCATTNAACACCCAAGTGCTATGGGTGAA
NNATTCATGATAGCTTGGCCCACAAGGTCATGAATTGAGGAGGGAATCTTGCTTTTCAAA
AAANCAATGGAATGNTCCCNCCACTGAAAAAGGGNNATACGTTTTAATATTTTGGACCCT
TCANAAAGGNTAANGAAAAAAACCCANGGTTCTTTCNAAAAAGTTAGNGAATAAGGGGGA
ACTTAANTTTCATGGAANACAAGCCCATTNTTTNAAAAAAAAAAAAAA

Sequence 2049

CNTACGAACGTCTGAAACGTGGAGGAACCTTCAGTTCTGGGAACTCCCTGCCCCTTTCCC
GGAAAATTCATGAGTAATCCACCTGTTTAGCATATAATCAAGAAGTAACCATAGGCATAG
TATATCAAGCAGCCCACACTGCTGCTTTGCCTATGGGGTAGCCACTTTTATTCCTTTACT
TTTTATTAAACTTGCTTTCACTTAAAAAAAAAAAAAAAAAAAA

Sequence 2050

CGCNTCCGAAATCCAATCCTAATGAAAGAGATTGATAAGTGTGACTACAAAAGGTTTAAA
ACTTTTTTCATAGCAAATTATCTCAGAAACTAAATTAAAAGACAAGGGAGACCAGGTGCA
GTGGCTCACGCTGTAATCCCAGCACTTTGGGAGGCCGAGGGAGGTGCATTGTTCTAGCCC
AGGAGTTCGAGACCAGCCTGGGCAACATGGTGAAGCCCTGTCTCTACCCAAAATACAAAA
ATTAGCCAGGCGTGGTGGCTTATGCCTGCAGTCCCAGCTACTTGGGAGGCTGAGGTAAGA
GGATGGCTTGAGCCCAGGAAATCAAGGGTGCAGTGAGCTGCNATTATGATTGTGCCACTG
CACTCTAGCCTGCATGTCCAAGTGAATCCTACATNAAAATAAAAAGTNCAAAAANANAAA
AAATGTGCCGGCCCGCTAGACTAGTNT

Sequence 2051

CCACGCCTCCGGAAATGCCTCTCTCCAGAGTCGGACCCTCACCTCCTTCCTGGAACTGCC
TTTGGCCCCAGAACCATGAGACAATCCCCACCCTGAGAAGCTNCGATCACTGGGAGGAGA
GAGAAAGCCTCCAGCTTTGGGATTCAGGCTTCAGAAGTTTTTAGCAGCCTTTGCTCATTG
GAGAGGTGGGGAGGATAAGTCTATAAGGAATCCTATTTCCCCAGCTCTCCCACAGAGAGG

TABLE 1

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ACAAAAGAAGTCTTCACACCGTTGTGGAACTTTCCTGCAACTTCTGGATGCAGACAAGCC
TCAGAGCAGACTGTTCTGGCTCCAGNGAATATCGGCTGCCAAGCTGTGAGCATCCAGGGA
TCCNCGTCTGCCTGGCTTTCCTGAAAGTCAGAAGGCGCCTTGGTCATACTGTGTGGGGTG
NGTNGGATNTTNAGTTNTGNTCTCTTTTCTTTTTCCTTTTNTTAACAGCTTGGCGGAGTA
GCCAACACCCCTGACAGCAATTGTGCNGCACTTGGCTTAATTCACACCCTATGAATAATT
TTTNATATTTCAACTTGGAAAAGGTGGTTAAGAAACTTTT

Sequence 2052

GATGGACTGTGTCATNCAGGACGGCCCTGCTGCATTGGCACCAAGGGCAGGTGTGAGATC
ACCTCCCGGGAGTACTGTGACTTCATGAGGGGCTACTTCCATGAGGAGGCCACGCTCTGC
TCTCAGGTAGGTCTGCAGAGTGTCCGTCGTTCCCCTCCCCCAGCTACTGTGATGCTGATA
TGCTGCTCTGCGCAGGTGCACTGCATGGATGATGTGTGTGGGCTCCTGCCTTTTCTCAAC
CCCGAGGTGCCTGACCAGTTCTACCGCCTGTGGCTATCCCTCTTCCTGCACGCCGGGATC
TTGCACTGCCTGGTGTCCATCTGCTTCCAGATGACTGTCCTGCGGGACCTGGAGAAGCTG
GCAGGCTGGCACCGCATAGCCATCATCTACCTGCTGAGTGGTGTCACCGGCAACCTGGCC
AGTGCCATCTTCCTGCCATACCGAG

Sequence 2053

NCGCNTCCGGGCAGAGCCCCCGGAGCCTGGCCAGCCCTTCCGGCAGCTCCAAAGCCACAG
GCAAGCCCCGAGGCTGGGATGGCCGGCCCAGGAGGGAGGAGGACGACGTACCTCCCGAGG
AGAAGAGGCTGCGGCTGGGGCTGGAAGGGGGAAGCGCACAGCCCGAGGACTGCNAAGGAC
GGGGAGGACGCGCCGCGGCCAGGCAGGGAGGAGACCGGCACCCAGACAGGTGGCGACGGC
AGAGGAACACAGTGGCTCACGCCTGTAATCCCAGCACTTTGGCAGGTCGAGGCTGGCGGA
TCGCCTGGGGTCAGGAGTTCGAGACCAGGCTGGCCAACATGGCGAAACTGTCTCTGCTAA
AAATACGGAAGTTGGCTGGGAGTGATGGCACGCACCTGTAATCCCAGCTGCTTGGGAAGC
TGAGGCAGGAGAATCGTTTGAAGCGGGGAAAGCGAGGTTTGCAGTCAGCTTGAGATCACA
CCACTGCACTTCANCCACCTGGGGTGACATGAGCGACACTTCTGTTTTCAAAAATAAACC
GAA

Sequence 2054

CTGTGTAGGACAGACTCTCTTTGACTCCCTAGGATTTACCCCAGTGCCTAGCATGTTTCA
CAGCTTAGAGGAAAACAACATTTGTTGACTGACTTTTGATCTCCATTTTTTGGTGAGATG
CAGTGGCTTACACCTGTAATCCCAGCACTTTGGGAGGCTGAAGCGGGCGGATTACTTGAG
GCTAGGAATTCAAGATCAGCCTGGACAACATGGCAAAAAATACCAAAAATAAAAAAAAAT
AAATAAATAAAAAATTTAGCCAGACATGGTGGCAGGCACCTGTGGTCCCAGCTACTTGGG
AAGCCAAATCGCTTAAACCTATGAGGTGGGAGGTTGCAGTGAGCCAAGATTGCACCACTG
CACTCCAGCCTTGGTGACAGAGTGAGACCCTGCCTCAAAAAAAAAAAAAAAAAAAA

Sequence 2055

TCGACCCCGCGTCCGGGAATTTGGGGTGGAATGTGATGAGATTAAAATGTAGCTTTGGTA
TAACTTCATGTGTATTTCAAAATATACTGAACGTCAACATGATTTGAATAAAGAAAATGT
ATTTTCTACTTGAACCACATAACACTGTTATTTAAAACAGTTTTCTGCAGTCTAAAAAAA
AAAAAAAAAANNAACAANNAATN

Sequence 2056

CGTCCGGCAGAATGGCTCCCGCAAAGAAGGGTGGCGAGAAGAAAANGGGCCGTTCTGCCA
TCAACGAAGTGGTAACCCGAGANTNCACCATCAACATTCACAAGCGCATCCATGGAGTGG
GCTTCAAGAAGCCGTGCACCTCGGGCACTCAAAGAGATTCGGAAATTTGCCATGAAGGAG
ATGGGAACTCCAGATGTGCGCATTGACACCNAGGCTCAACAAAGCTGTCTGGGCCAAAGG
AATAAAGGAATGTGCCATTCCCGAATTCCGTGTGCGGGTTGTCCAGANAACCGTAAATGA
GGGATGGAAGATTCACCAAAATTAAGCTATATNCCTTTGGNTNCCCTATGTACCTGGNTA
CCACTTTNNAAAAANTTTACCAGACCAGGTCCAATGGNGGGATGGAGAACCTAAATCGNT
TGNTCGGCCGGANTCAAAATTAAGGTTNTTAAAATTTGCCAAAAAAAAAAAAAAAAA

Sequence 2057

CGCNTCCGGAGAGAGCCCAGGGATGCCTTATGGTCAGAACAAATTTATAGACAACAAAAG
GGAAGTGACCGTGCAGAAATCAGAAGTGAGGTACAGAAACAGCTGGACTGATTACAGCTC

TABLE 1

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AACATTTGCCTTTTTTGAACAAATCTGAACACTCAGCAGTGTATGAGTGGTTGACCGTAT
NGGCTGCTGTGATTGGCCAGACCTCAGCTATTGTTACAGGCACATACTCTTAAGTCAGGT
TTTCAATCCTATCTGACTATAAAGTTAGGTTACAGTTTGTCCTCATGGACTCAAATTTAG
AAGTATGGCGTCCTTCTCAGGCCATATTTAGTTCAGTTTAACAAGTGCATATGGCTTCTG
ACAAAGGTGTGGCCCCTTTAGGACTCCAAAGACGCTGTCACTTACATGGTATTCAGGGAA
GACACAGAGGATCTGTGAGCAGCCTGCAGCCAAAGCTTTTGAGATCATATTGAGATTTTT
TTGTANTATANGAGGAGGGGTTCTGGCTC

Sequence 2058

CGGAAGCATCGACCTGCGAGCTCACAGAGCTGGGAGCAGAGCACCCACGCACACCCCGAA
TGGCTATGGAAGCTGCAGGGCGCCAGGGACACTGGGAGTCCCTGCTCTCATGGCAAAGCA
GGGACGGGGGACTTAAAAGCCACCAACAGGAAAATCGGGGAAAAAAGGGAAGATGGTGGT
AACAGTTGGACACTATTTCTTGGCAAAACCGTGGAAAAACACGTTCTACACCAGCAGGTG
GCAAATTGTGGCCGCCATCTGTGTTTGCAAATAAAGTTTA

Sequence 2059

CCCCTACAATGAGCTGTCCCGCCTCAGTGGCCTGCGAACCCTCAACCTCCACAACAACCT
CATCTCCTCCGAAGGCCTGCCTGACGAGGCCTTCGAGTCCCTCACCCAGCTGCAGCACCT
CTGCGNGGCTCACAACAAGCTCTCAGTGGCCCCTCAGTTACTGCCCCCGTCCCTCCGNGT
CGCGGATCTGGCTGNCAACCAAGT

Sequence 2060

ACCCACGCGTCCGCCGATTTTCCAGGTGCCGTCTGTCACCCCTTTCTTTGACTNGGAAAG
GGAACTCCCTGACCCCTTGCACTTNCCGAGTGAGGCAATGCCTCGCCCTGCTTCAGCTCG
CACATGGTGCGCGCACCCACTGACCTGCGCCCACTGTCTGGCACTCCGTAGTGAGATGAA
CCCGNTACCTCAGATGGAAATGCAGAAATCACCCATCTTCTGCGTCACTCAAGCTGGGAG
CTGTAGACCGGAGCTGTTCCTATTCGGCCATCTTGGCTCCTCCGCTCTATTTGCAGTTCT
TAAAGGGCTATTGTACTCTCTGGGATTGTACGAACTTGGACTGNATTGGAACTGCAACAG
AAAATCTTCCAGGCAAGTGCCA

Sequence 2061

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTCATTCAGTGTACGAGGGAAAAAAGCAT
GTATTGGGCCACCGGAAGACAAGCTAATAAATAGGCTGGAAGTAATATTCTACCAGCAGG
AACTCAACAGCTCCAGTTAAATGCTTTGATATAGNGGCTCCTTTGCAGAGCCAAAACAAG
ATTTATTAAATTTCCTTCAAACTGTTTATCTTTAAAACAAATATAAGGTTTTAATTATAC
TGCTGAAGCAAATGTGAATGCCAAAGACTATGTTTTGCAGTTTTGCTTTCCTCCCAATAA
ATATTAATGTATGTAATTCTAGAGGGTAAAAATGTAAATAGGTTTGGACAATATTTGCAC
CCTTGTTTGTGTTATGAAAAAAATTTTTCCAAGGCGAGCTAGAGAGAAAGATGTTTGGCA
TGCCAAATTAACTTGCATGTTTGTTAAAAAAACAAACACATGTTTTTGAAAAGAAACCAG
ATCTGAACGTGTATTTGTTGAAGTTTTGCAAAA

Sequence 2062

CCCTTTCGAGCGNCCGCCCGGGCAGGNACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTAAAAAAAAAANNAAAANNNTNNNNTTTTTTNGGCCNTTNNTTNAANNNAANCNNNT
TTNTTTNGGGNTTNNTNNAAAAAANNNANNNAAANCCCNNCCNGNNNTTTTTAGGGNAAA
AAAAANTTTTNCNGGGNTNAAAAAAAATTNNTTTTTGGNTNCCAAAANNTNNGNNAAAAA
ANNAAANNANCCNNNNTTTTTTNNNNNGGGGCNCCCCCTTTTTTTNCCCNTGGNGGGGNG
GGGNAAAAAGGGGNTTTTTTTNGGANCCGAAAAAAAACGGGAAANTTATCCCTTTTTTGN
GGGGCCNTAAACTTTTTTTTNNCCNCNNTTNTTTTTTAAAAANCCCCCNNCCCTTTNTCC
CTGNTGGNNCCCTTTTTGGCCCGGGGAAACCCNNTTTTTTTTTTTTTTTTT

Sequence 2063

AAGGGAAAATGTCACGTANACTAGATCAGGGAACAAAATCCTCTCCTTGTGGAAATATCC
NATGCAGNNNGNTGATACAACTTANTATCTTATTGCCTAANAAAAAAATTTCTTATCATT
GTTTCANAAAAGCAAAATCATGGAAAATTTTTGTTGTCCAGGCAAATAAAAGGTCATTNT
AATTTAGCTGCAATTTCAGTGTTCCTCACTAGGTGGCATTTAAATGTCCCCTGATGTCAT

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TAAGCACCATCCAAAAAGTCTGCTTCATAATCTATTTTCAAGACTTGGTGATTCTGANAG
TTTTGGTTTTTGNGACTTTGTNTCTCANGAAAAAAAANATTCCTACTTAAATTTTAAGTC
TATAATTCAATTTAAATATGNTGNGGCGTCTCATCCAGGATNGGATAGGTTGTCTTCTAT
TTTCCATTTTACCTATTTAC

Sequence 2064

CCCTTTCGAGCGNNCGCCCNNNCAGGTACAGACTTAGAAATTATCTAAAGATTTCATCTT
TTTACCTCATATTTCTTAGGAATTTAATGGTTATATGTTGTCTTTTTTTCCTATGTCTTT
TGGCTCAAGCAACATGTATATCAGTGTTGACTTTTTCTTTCTTAGATCTAGTTTAAAAAA
AAAACCACATAACAATTCTTTGAAGAAAGGAAGGGATTAAATAATTTTTTTCCCTAACAC
TTTCTTGAAGGTCAGGGGCTTTATCTATGAAAAAGTAGTAAATAAGTTCTTTGTAACCTG
TGTGAAGCAGCAGCCAGCCTTAAAGTAGTCCATTCTTGCTAATGGTTAGAACAGTGAATA
CTAAGTGGAATTGTTTGGGCTGCTTTTAAGTTTCTCTTAATCAAAATTACTAAGATGATA
GAATTCAAGAACTTGGTACATGTATTACTTGGTGGTATCGATAATCATTTAAAAGTAAAA
GACTCTGTCATGCATTTTTCCCCATTTCTTTTTTTTTCCCTGTCTCCGGGGCCAACCCAA
GTGGGTCTTCATTTT

Sequence 2065

CCCTTAGCGTGGTCGCGGCCGAGGTACNCGGNGTCCAAGATGGCGGATGAAGCCACGCGA
CGTGTTGTGTCTGAGATCCCGGTGCTGAANACTAACGCCGGACCCCGAGATCGTGAGTTG
TGGGTGCAGCGACTGAAGGAGGAATATCAGTCCCTTATCCGGTATGTGGAGAACAACAAG
AATGCTGACAACGATTGGTTCCGACTGGAGTCCAACAAGGAAGGAACTCGGTGGTTTGGA
AAATAACATCTGGGCCTGCTGGAGAAAAAGAAAGATTACAAACTTCGTTGCATATGACTA
CCGTAAAAAACAAGAATACCTCAAAGCTCTTCGGAAGAAGGCTCTTGAAAAAAATCCAGA
TGAATTCTACTACAAAATGACTCGNGTTAAACTCCAGGATGGAGTACTTTAATTTTTTTT
TNTTNATANTTNCCAGGAACATTTTCTAATTATGTTATATAAATGGGTATGTGATATGTG
NGCTATTTGTGTGCTAATGTCCTAAGTGAAGTTCTGCAGACCATCTGGGTCAAAGTGCAT
TTCGCATGATCCAAAANATGAAGAACCACTTGTTTGTCACGGGAGACNAGGGAAAAAAAA
A

Sequence 2066

CTTAGCGAGGTCACGNNCNANGAACGCGGGGNGNTCAGGAAGATNTCTGAAGAGTGCAGC
NGCCTGAACCGAGCCCTGCCNAACAGCTGACAATTGCACTGCAACCATGAGTGA

Sequence 2067

CATGCAGAANTCCTCGCTGGAGTTTCATAAGGCCAATGAGTGCCAGGAGCGCCCTGTTGA
GTGTAAGTTCTGCAAACTGGACATGCAGCTCANCAAGCTGGAGCTCCACGAGTCCTACTG
TGGCAGCCGGACAGAGCTCTGCCAAGGCTGTGGCCAGTTCATCATGCACCGCATGCTCGC
CCAGCACAGAGATGTCTGTCGGAGTGAACAGGCCCNGCTCGGGAAAGGGGAAAGAATTTC
ANGCTCCTGAAAGGGAAATCTACTGTCATTATTGCAACCAAATGATTCCAGAAAATAAGT
ATTTCCACCATATGGGATTCCCAGACCATGANGCCAAAGTAATTCCTAATCCCCACACAC
AGGAATGGCATGGGACCTGNGATTTTGAGTTTTCAAGGGGCCGTAAGNTTTTNATTCTTC
ACACCTNCAAATTACCCGACCCCAAAAAAAAAANAAAAAAAAA

Sequence 2068

CCCTTAGCGTGGTCGCGGCCGAGGTACTTNTCCGATTTCAAGAACTGATGAAATTAGAAA
AAACACCTACAGAACATTGGATAGCCTGGAGCAGACCATTAAACAGCTCGAAAATACAAT
CAGTGAAATGAGTCCCAAAGCCCTAGNTGATACCTNATGTTCTTCCAACAGAGATTCTGN
AGCAAGTTCATCCCACATAGCCCAAGAGGCCTCTCCCCGACCCTTGCTAGTTNCGGATGA
AGGTNCCACTGCCCTAGAGCCCCCTACGTCGATACCTTCAGCTTCACGTAAGGGCTCCAG
CGGGGCCCCACAGACGAGCAGGATGCCTGTCCCCATGAGTGCCAAGAACAGACCCGGAAC
CCTGGACAAACCCGGCAAGCAGTCCAAACTGCAAGAACCNCGCCAATATCGNCAGGGCTA
ATGGAANTNCTAAGAAATCTTGGNNGGGGACTNTTAAAGCCTACTTTCCCCTACTTACCT
GCTTCTAAAGATTCCAAGGCCNTTCTTCCAAACTTTTGGG

Sequence 2069

CCCTTTCGAGCGGCCGCCCGGGCAGGTTCATGGATNNGAGCAGCTTCACCAACCCCTGCA

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AAGTGACTCTGAAGAAGACGACAAGCCCTGCTCCAGTCACACCCGGAAGCTGACTGGTCC
ACGCACAGCTGAAGCATGAGGAAACTCATCGCGGGACTAATTTTCCTTAAAATTTANACT
TGCACAGTAAGGACTTCAACTGACCTTCCTNAGACTGAGAACTGTTTCCAGTATATACAT
CAAGTCACTGAGAGAACATCACCACCCTGAAGCCAGAGACTAACACTGCAGGACTCAGCA
GGACTATTTAAGAAACAACTGAGGCATCAGACCAACTTTCCCCACAAGTCCTCGGATCTT
TCCTGCCATGCTGATGCCATATATTCCAACGTGATCAACCTGGCTCCCCAGAAGGAGGAC
GACTTTGCTGTCTACACCAACATGCCCCCTTTTCATCACCCCAAGAGGACATTGCCAGAC
CAAGTGGGAATATGTCTTCCATTGTATTTCCAACTGATGGGGAAAGCCTANATGAAGATG
CTCAAGAAGNGGGGGGGTCAAGACCCTGACCCCAGCNTGAATCTTTGGCATTACCCTTTGC
TTTAAATTTAATGTGGTGGNGNTTTAAAAAAAAAAAAAA
Sequence 2070
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTCNGCGGGG
NGNNCTACTTNANAATCTTTGGCNGGTTTNNCNGTTTTNGGTTTTCTNANCNCTTGGNCT
GGTNCATTTGGTTTNGAANAATCNGTTNCTTCNGATTTTTNANCAAANGGTTTTTNGNCA
AANGGTTTTNGAAANCTTTNNCCTTCTTCNGTNGAAGTNGTGGGTTTTTNANAANANAAA
AATTGGGGTTNATCATTTTTTCTAGGCCNGAANGTTTNGNNCNTNCCTNTTTCANAATCT
ANATTAATAC
Sequence 2071
CCCTTTCGAGCGGCCGCCCGGGCAGGTNCNGGTTANCAGACCCACAACACGAAGCTCCTG
CCTTTTAAGACTACAAAGAGGCAGCTCAAAATTAGACTGCACAGGTAAGCGAGGAACTGC
AGTCTAAGCCTGGACTCTGCCTTCTGCCCTCCCCCCGCGTACTCAAGCAATAAAAT
Sequence 2072
CCCTTTCGAGCGGCCGCCCGGGCAGGTNCTNTTTTTTTTTTTNTTTNGCNGAGTGAGCTA
CTNTAGGATCTTNTGCTGGTTNTACAGTTTTTGGTTTTCTTAGCACTTTGTCTTGTTCAT
TNNGNTTNGAAGAATCTGNTTCTTCTGATTTTTTAACANAAGGTTTTTTGACAAATGGTT
TTTGAAAACTTTTACCTTCTTCTGTTGAAGTTGTTGGTTTTTTAGAAGAGAAAAATTNGT
GTTTATCATTTTTTCTAGGTCTGAAAGTTTTGCGCATTCCTCTTTCAGAATCTAGATTAA
TAACTAAAAATCTTAAAACTTGNTTTTTGAGAATATTTACTCTTCTGACAAATTCTTCGA
TTAAACTTTCCTCAGATTTTAAGTTAGCTAAAACAAAANTTCCTTGTTTGNGTTTNTTAA
TNTCGAATGCTNACTCTGTATCTTTCAAGTTTTNCAATTTTTTCGATGTCTTAGCATCAA
AAACAGATTTTAAAACGTCTTCAAATTACTTTTAAATCTGTTCCTGCAGCTAAAACNGTC

Sequence 2073
CCCTTAGCGTGGTCNCGGCCGAGGTACGTGCTTATACAAGATGTCAATTATGTGGTCGTC
CACATGCTGTATTACGTAAATTTAAAATTTGTAGAATTTGCTTCCGTGAACTAGCTCACA
AAGGACAAATACCAGGTATTAAGAAAGCGAGTTGATAATATGATAATCACAGATCCAATA
GCAGATATGATCACAAGAATCAAAAATGCCTTCACACGTAAACACAAAAATGTTATTATT
CCTCATTCTAAGAAAAAAGAAAGAATCTTACAAATCTTCTTAGATGAAGGATATATAAAA
GGATTTACTGTATCTGGTGAAGTTAAAAAAGAAATTAATGTTGAGCTTAAATACAAAGGA
AATACAAGTTCAATTGNTGGAATTAAAAGAGTTTCCAAGC
Sequence 2074
CCCTTTCGAGCGGNCGCCCGGGCAGGTGGGCAGGTACTTCAGCAAGTCCTCTTTCTCCTC
AGCAGTAAGCTCAGCCGGCAGGTGCCTGACCAGAAGGGTTCGGTCGCCCCGAGGCGGGGA
AAGCGAGGAGGAGCTCGTGCATCCCCTTGATATCGCAAGCGGCTGCTCGGGAGCTGCCAT
TTTCCTTGGAGAAGCAAAAACAGAAATCGTGGGAAGAAGTCTCAGTCAAAATCGCGGCAT
CAACACAAGCTGGGAGAAATATTTTTTCCGCCTCGCGCTAAGGATTCTGGAAACCAGGAA
ATACCGAGAAAGAAAGTCACCTTCTCGCGAGAACTGCGCCACCGAAAAGCGGCAACCCTT
CGAAGACTCTTCGGGGAAGGGCGCGGTGCTAATGATTTAAATTCCAAGGGGTCTNCGGAA
AGACTTACAAAGCCAAAAATTGGCCCAAAAGATGTGCGANGGTTAACACAAGTTGTCAAT
CAAAGAAAGGAAACAGGAACCCCAACCCCTTTAAGGA
Sequence 2075

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CCGCCCGGGCAGGTACAAATTGAGCTCTCTATTCATAACCTCAATGTATGTATTCCTGCC
CATTAATATACTTTGCACCAGCAAAAGCGATTTCCAACATATGTGTTTTGGAGGTAATTA
AGTAACTCTGTATAAAAATAAATGCACTTTTCCCTCCTTTCCCCAGTGAATGGAAAACTT
CCATACTTTCAAAATAATAATAAAAAAATAATTTTTAAGAGCAACAGCCCTCAACTCTTT
GCTGGTGCCTGCCATACTGCCTTTCTTCACTCCATTCTTAGCTCTGCTAGTTTCTTCTTG
TATGTCATGATAAAAAGGGAATGTGGGTGTGTAACTTTTGTGTATGTCCCGTTTCCAAAT
TTCCCTCTCCAAAAAGCCAACCAAATAAACAAACAAACAAACGAAAAAAACAGTGCAACA
AAACACAAATAGCATTCCAACAGTT

Sequence 2076

TTTCGAGCGGCCGCCCGGGCAGGCACATAAAACATTATTCCTTCCTTGGCCTAAAAACTC
ATCGCCACCTACATTAAAGCTAATATGCCTGATTACTGTTTTTAGAGAACTTATTTTATT
AGGGCAGTTCCAAGCTCAAAAATACGCTAACTGGCACCTTGTTAGCTACATAAAAATGCA
CCCTAGACCCGAAACTTACTAGACTCATTATAAAATTTTCTTTAAGGTGTCCACGCAGTC
CCTGGTCACACTTGAAGCAGTCCGGAGAAATATCAGCCCTACCCCAGTAATCCCCAGAAG
GAACTTACACTTTTTTTTAATCTTTTCCTACAACTTCATATTTTATAAATAAAAAGACAA
AAATGTCAGGCCTGTGAGCTGAAGCTTAGCCATTGTAACCCCTGTGACCTGCACATATCC
GTCCAGGTGGCCTGCAGGAGCCAAGAAGTCTGGGAGCAGCCCGAAAAACCACAAAGAAGT
GAAACAAGCCAGTTCCTGCCTTAACTAATTAACCCACCTTACGACATTCCACCATTATGA
CTTGTCCACCATTATGACTTGTTCCTGCCCTGCCCCAACT

Sequence 2077

CCCTTTCGAGCGGCCGCCCGGGCAGGTTTANGTCANAGTCTTCTNTTCTNTTCTNNNTGA
GATGGAGTCTTGCTCTGTTGCCAGACTGGAGTGCAGTGGTGCGATCTGGGCTCACTGCAA
TCTCCACCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAACTGGGACTAC
AGGGTGCGCGCCACCAAGCCCAGCTCATTTTNGTATTTATAGTAGAGATGGGGTTTCACG
ATGTTGGCTAGGGATGGGTCTCGATCTNTNGGTCAGAGTCTNTTNCTGTAAAATATCCTT
GGGTAAAAGAAGCAATTTTANACTGTAAACTGATGNCAANATGCTTTAAGGGAAGAAGGC
N

Sequence 2078

TCCCTTNCTTTCTCGCACGTTCGGCCGGCTTTTNCCCGTCAAGCTCTAAAATCGGGGGGGG
CTCCCTTTAGGGGTTCCGAATTTAAGTGGCTTTACGGGAACCTTCGAACCCCAAAAAAA

Sequence 2079

CCCTTTCGAGCGGCCGCCCGGGCAGGTNCAGGGTCTGTCAGAAACTGTTGGAATCTTACA
TAAAGTCAAGTCTCAGAAATGTCCGATGCTTCACCATATTCTTATATTCTATGCAATTGT
TGTCTGTGCACTAATCATCTCGACCTTCTACATGAGATACAGAATTAATACTCTGGAGGA
GCAGCTGGGGTTACTAACCTCCATTGTGGACACCCATAATACTGAACAGGCAGCACCATC
TGGCCTGAGGTCACAAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 2080

ACCNTATAACGGCCGCAGTGTGCTGGAATTCGCCCTTTCGAGCGGCCGCCCGGNCAGGTA
CGCGGGGNTGGTTCCAACTTTTCTGCTNATCTGGGAGGTGNTGGGCGCGGACAGTCNAGA
TGTCAGAGAAAAAGCAGCCGGTANACTTAGGTCTGTTAGAGGAAGACGACGAGTTTGAAG
AGTTCCCTGCCGAAGACTGGGCTGGCTTAGATGAAGATGAAGGATGCACATGTNCTGGGA
GGATAATTGGGATGAATGACAATGTAGAGGGATGACTTCTCTAATCAGTTAACTGAGCTG
AAACTAGAGAAACATGGGTTATAAGATGGGAGACTTCATAGCCATCCAGAAGAAGTGCTG
AAGTAAACCTAAAACTTGACCCTGCTNAAATACATTGTAGGGGCAAGAAGAACCCAAGGA
ATGGGGACACT

Sequence 2081

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGNAAGTGTCGGCGCCGCCACTGTCCG
GCCACAGCCTAACGCTCTTNGCTGTCGTTTGNGGNCTCGCGCAGGGCGGCCCCGGNTCTG
GTGTTTGGCNGTCGGAATTAAACAACCACCATGTCCGAGCAAAAAGGCAAAGACCAAGAC
CACCATAGAAGCGCCCTTAGCGTGCAACATCCAANGNGTTAGNCATGTTNGACCAANNCA
CAGATTNGAGGAGTTCAAAAGAGGCCTNCAACATGAGTTGATCAAGAANANGAGATGGCT

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TCATTNGANAANGGAAAAATGCCNCAAGGNNNNGCCTNNGCTNACTCTAGGGGAAATAAA
CCCCNACCTGANTNNGAAAATCTTGAATGGCCCATGGATGAAATGAGGCCCCCA
Sequence 2082
CCCTTAGCGTGGTCGCGGCCGAGGTACTGTGATATNTCACATATTTTTGAGAAAAATTCC
CAAGCCAGGCGAATGTGGATTGGAATAAAGACATAGGCAGTGTATACCACCATAGCAATA
ATGGTTAGTAAGATGGTGTTAAACATAGATCGCTCCCAGGGCTCTAAAACAGCACAGCAG
CTAATGATTTGGTATTGATAGTAGAGCCAGGAGAAATATTCCTTCACACGCCTCAAATCC
ATGGTTGGCTCCTTCAAGCTGCAGTAAGTTTGTCCTAAGAAAGTCCAGGTCTGGTTCTTC
AGCCTTGCTCCTTCGCGAAATGATCCTGTGTGGGTTAGTTCTCCTCTCTGGGTTGCTGTT
TCCTCATCTCCCAGTTGGGTGTATCTCCCTGCGGCTTAGGTGAGCGCCGAGGCTTTGGCT
CCTCCCCAGCTGCTGCGAGCTTCCGCTGCCCCCGCGTACCTGCCCGGGCGGCCGCTCGAA
AAGGG
Sequence 2083
CGGGCAGGTACCAAAGCCTTNTGNCCCCATTTTCCATCATACGAATAGTATTCCCTGTTG
CTAAGCCGATGATACATTANCCTTTTCCCAATAGGNGNGAGNGGATGGACTGAATGGAGA
A
Sequence 2084
CGCTCACTGCCCGCTTTCCAAGTNCGGGAAAACCTGTCGGTGCCAGCTTGCATAAATGAA
ATCGGCCAACCGCGCCGGGGGAAGAGGGCGGTTNGCAGTAATTGGGCNGCTCATTCCAGC
TTCCTCCGCTTCACTGGACTTNGGANGGCNCTCGGGTCCGTACNGGCTGGCGGGCNGAGC
CGGGGNATCAAGCTCAANTTCAAAAGGCCGGGNAAATACCGGGATAACCCACCAAGAANT
CAAGGGGGGATAAACGCAAGGGAAAGGAACATGGTGAAGCCAAAAAGGG
Sequence 2085
NCNGANCNGGGAGNGGGGAGAGCCCGCGGAGGNGCCCCAANCNCCCNAAAGCGAGNCGCA
NNACGCGCGCNCACGGGCCGCGAAAGACAACGCAAGACGGGGAAAACCCCGCCGCNACCC
AACANAACCGCCGNGCAAGCACAANCCCCANAG
Sequence 2086
TTTNNAGTTTTNGGGANCCACTAGTTCTNGAGCGGCGAGGTACTTATCAANAATGGGGTC
CNTAAAGACATAATCTTTGCCAGTAGATGCAGAGTTGCTGGTAGNTTATGACTAATTCCA
AGACCGTCCGAAATCCCTGGGCTGTGTTGAAATGTGNNTTCATGCTCCCTCGCTCCCAAG
CATAGACCGNCAGGAGCTCCAGGGCATACTGAGGNGGCAAGCTTCCAAGCTTCTTCTTAC
AATTTTGGACCTGCCCGG
Sequence 2087
CCGGNCAGGTACACTCGGAAATGGAAGGCGANGTTTGAGTCTTTCTTCATCTCGGTATGG
AAATCCACCTGCAGCTGTGGGTCCATGACGAAAGGGATGATCGGTGTCCCTGTGATTATC
ACACAAGAACCAGTAGACAAGGACACAGGCCGTGTGTGTGGTACCT
Sequence 2088
CNGGACTCACGCGGCGGCGGGAAATGTNATNCGATCACAATTCCACACACATACCNCCGG
GANTnnn

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CNTCNCGCCACGGACGCCCGGCTNTCCCCGNCAAGCNCTAAAAACGGGGGCCNCCCACAA
AGGGGGCCGANANAAGAGCNNNAACGGGNACCCNCGACCCCAAAAAAACNNGGAAANAAG
GGGGGAAGGGGNCAACGCAAGNGGGGCCAANCGCCCCGGANAAAACNGGAGANNACCGCC
CCNCNGAACGGANGGAAGACCANCGGCCCNAAAAAAAGGGGNCCCACGGGGCCAAANCAG
GGAACAACACACAAACCCCAAANCCGGGGCCANNNCCNNTGGAANCAAAAAGGGANANG
AGCCGAACACCGNCCCAATGGGGGA

Sequence 2090

NATTGCGAANTGGGCCGCTCTTCNCGCTNNCTCGCTCACTGACTCCGCTTGCGCTCGGTC
CGNNCGGCTGCCGGCGAGCGGGTATCAAGCTCACTCAAAGGCGGGAAANACNGTTATTCC
ACAAGAANCAAGGGGGAATAAACCGCCAGGGAAAAGAAACAATGGTGAACAAAAAGGCCC
AGCAAAAAGGGCCAAGGAAACCCGAAAAAAANGCCCNCGGTTGGCTGGCGTTTNTTCCAA
TAAGGCTCCGGCCC

Sequence 2091

CCCTTANTTTNGNCNTTNNCGANGNACCACACACATAGGTAGCCNGCATTCATGGAACAG
GCACCGTGGGCTGGGCTGCACCACACCATCTTTCCATGTGTTATCTCTTTCTAGAGACTT
CTTGAAAATTGGTAGGATTATCATATCATATGTTCTTGGAAACATCTGTTGACTATTTCT
GTACATCATGGCTCGGACTTGGGTCAAGCTCTTGGCACCAATGTCCTGGCATGAGTGTTG
GATGCCAGCAATCAGGTAAGGGACAAATTTGTGGATTGACCCTTTGTCCTGCACAGCACC
AGACACTCCCTGGGCCACTTTGATTTTGTCAAGCTTCACTGAAATATCTGTTCTGGCTGC
TGAGGTGCTTGTCCCATGGCATCGAAGAGAACCCATACCGCGATATTTCTTTAGCNCGGA
TCCCATCGGAAAAAGAAAGTANTCACCAGGGGGCCCTAAGTGGGTGGCAGCCAGGAAGAG
AGCCCCATCATGGACTGNNGGAGGCCCCAAGGGGC

Sequence 2092

GGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTTTAAAGAGTTGTTTTTTGGCCGGGCGC
NTTGGCTCATNCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCGGATCACGAGGTC
TGGAGTTTGAGACCATCCTGGCTAACACAGTGAAATCCCGTCTCTACTAAAAATACAAAA
AATTAGCCAGGCGTGGTGGCTGGCACCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGG
AGAATGGCGTGAACCTGGAAGGAAGAGGTTGCAGTGAGCCAAGATTGCNCCCCTGCACTC
CAGCCTGGGCAACAGAGCAAGACTCCATCTCAAAAAAAAAAAAAAAAAAAGTACCTGCCC
Gnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnG
TTAATTGCGCCCCTTGGCGTAATCATGGTCATAAGCTGTTTCCTGTGTGAAAATTGTTAT
TCCGCTCACAATTCCACACCAACATACGAGCCCGGGAGCATTAAAGTGTAAAAGCCTGGG
GTGCCTAAATGAGGGGAGCTAACTCAACATTTAATTGCGGTGCGCCTCACTTGCCCGCTT
TTNCAATTCNGGGAAACCTTGCGTGNCCAGCTTGCANTTAATGAAATCGGCCCAC

Sequence 2093

CCCCGCGTCCGCCTCGNAAATTGTTGATGCTCTTTCCCCTCCCCGAGGTCTCGCATNCAA
ANCCTGGTGGGCTGGCCTTGTGTGGCTGCTTCTCCAGGCCTGGTCAGNACCCAGCAGGCT
CAGGGTCTGCTCCTGATGCTGNGCTCTGGGACAGGCACGCCACTGTGNGAAACACTAAGC
NAGGTAATCGAGCATTTNGTGATCACAGACTCCAGCTTCCTGGTCCACCCAGCATGTAGT
CAGCACTCTGACCTTNACACCAGAGCTCCACAGCGGCTAGGAGTTGACTTCCTGTGTCAT
GACCTCAGGAAATAAATTTCCTTGACTTTAAAAAAAAAAA

Sequence 2094

TTCTGCTGAGACGCGTGTGGCTNCCTCCCCGCAACANCCAAAATGNTGAAGCTGATCGAG
AGCAAGGAAGCTTTTCAGGAGGCCCTGGCCGCCGNGGGAGACAAGCTTGTCNTGGTGGAC
TTCTCTGCTACGTGGTGTGGACCTTGCAAAATGATCANGCCCTTCTTCCATTCCCTCTGT
GACAAGTNTTCCAATGTGGNGTTCCTTGAAGTGGATGTNGATGACTGCCAGGATGTTNCT
GCANACTGTGAATTCNAATGCNTGCCAGACCTTCCAGNTCTATAAAANGGGNCAAAAGGN
GGGGGNNNTCTACNGNGCTAACAAGGAAAAGCTTGAAGCCTNTATTACTGAATATGCCTA
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TTTGCTAAAAACTATGAAAGTGTGGAGAGGCTATCCCAACTGNCATCTGATTATTAGTGA

TABLE 1
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CAATAAAAAAANTAATTCTACCCCTTNANAAAAAAAAAAAAAAAAA
Sequence 2095
TGTGTAGCACCTGNGGNGTCCTTGNGTGATTATTCTTGTNCGAGGTACTTAGGGCAAGTC
ACATGCCCTCCATCCCNTGGCTCANAGATGAAGAGTAAATCCAAAACATGTGCCTCGCTC
TTGGTCACTAACTGCTGNCCTG
Sequence 2096
TCGAGCGGCCGCCCGGGCAGGTACTTTNTTAATGCCTTNGTTGGAGTCCTNATCCTCATC
TTTAAAAAAAAAAAAAACAGNTTANCCTAAGCCANATTCACTTTTTTTAGTTNACAAAAA
GGATTAANTNGCCACANTGTGATTT
Sequence 2097
ATTNNCCCTTAATCATCTCACGCCCCATGTATGATTCTCAAAGNGCCTAGCGTGANCANC
NGTCCCTNAGACCACACCAATTTCTTNATGTCNCNCTCAAGAAAGCCAAAATGACAATNA
TAANGCCATCTCAANCNCAATANCCTACCANAACCACCCCNCGGNCTTATCTANACTTCA
ACTCAAACTCTCTGCCTCCTTACTNTCTGGGGAGCTTNAAAACCANNTNACTNATAACTT
TAAAAACCTNTCTNTAAAATNTCANAAACCACANCCTCACCATTNNCACAACCACCCCCA
ACACCAAANANNTTCCCAAAACAACC
Sequence 2098
CCCTTAGCGTGGTCGCGGCCGAGGTACACCAAGACCAATTGCTAAAATCTTGGATTATGG
AAAATTTAAGTATGAAAGAAAGAAAAAACAAAAAGTTGAAAAAGAAAAACAATCTTTCAC
AAACAATAGAGAAATTCGTTTATCTTTTGGAATCAATTTAAGNGATATAAAAATCAAAGC
AAAAAAAGCCAAAGAATTTTTATTAGATAACGACAGAGTAAAAGTGGCTCTTCGTCTTAG
AGGGCGTGAAAATACAAGACCTGAACAAGGTAAATTAATTTTAAATTCTTTTTTTGATGA
AGTAAAATCGATTGCAAAATTAAGTAAAGAAATGCAATCAGTTGGTAATTTTTTA
Sequence 2099
NGNCCTTNCGAGCGGCCGCCCGGGCAGGTACAAATTGAGCTCTCTATTCATAACCTCAAT
GTATGTATTCCTGCCCATTAATATACTTTGCACCAGCAAAAGCGATTTCCAACATATGTG
TTTTGGAGGTAATTAAGTAACTCTGTATAAAAATAAATGCACTTTTCCCTCCTTTCCCCA
GTGAATGGAAAACTTCCATACTTTCAAAATAATAATAAAAAAATAATTTTTAAGAGCAAC
AGCCCTCAACTCTTTGCTGGTGCCTGCCATACTGCCTTTCTTCACTCCATTCTTAGCTCT
GCTAGTTTCTTCTTGTATGTCATGATAAAAAGGGAATGTGGGGTGTGTAA
Sequence 2100
NCCTTAGCGTGGTCGCGGCCGAGGTACACTGGAGGCTGGAGCCTGCAGATGGCATGGCTC
TGCGGCTCACCTTGCTGCAGTTGGTGGTGGTGACAGAGACTGCAGCTTGACTGTAGTGAA
TTTGGAAATTATCTGTCTGGAAGCTCTGAGTTTATCTTGGGACCTCAAGAGGAGAGGATC
ACCCAACTCACAGCAATCAAACTCCAAATGGTGCTATAAACTGAACCACACATGGACACG
TCAGTCTTCCGAGGACCCTTAGATCAACCCCAGGAGGAGCCCTAGCTGCTGTTCCCCATT
CGACGCCCCTTTCCAGCAGG
Sequence 2101
NAGGGGCGGGAATTTTGGGNGGGCCCCCCTTTCTTANAATGCATTGCTTCCGNANGGCCC
GGGGNCCCCCCCCCCCAGTGGTGGATGGGATATTCTTNCCAAAAATTGGGGGGGGCCCTTT
TTNNGGNCCNNAAAAAACCCCNGGGGCCGNCCCGGGGCCAAGGTTACCTTGGACTTGGAA
AAATTTGGGGCNTTTTNTTTTGGGGGNNCCTTTTNCCCNNNNNNNNNNNNNNNNNNNNN
NNNANGGGCCCCCGGGGTTTNTTNCCNTTTTCCCAAAANAGGCCCCNTTTNNNGNGNGGG
GNGGGTTGGGGGNAAAAAAANNNNNNNNTTTTTTTTTTNNNNNNNNNCCCCCCCCCCCCN
TTAAAAAANAAAAAAAA
Sequence 2102
CCCTTTCGAGCGGCCGCCCGGGCAGGCACTTATTTTTTTTTTTTTTTTTTTTTTTCTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTNNTNAANAAAAAAAAAANTTTTTNTTNAANTNGGGNCNNAAACTNTTTAACNAANN
AAAAAAAANNNTNNTAAAANGTTNTCNAAGNNGGGNNNNNCCNNANAGGNANAAAANGAA
AANGNNTNATTTTTTNTTNAAAAAAAAANNTTTNNTAAAANTGTTGNNGGNGGGGGTAGG

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TTAAAAAAAAAA
Sequence 2103
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCTGTCTCTGTAGTCTCTCCATTCTAAAGTT
TAATTTGGAAAGGTCTGTCCTGAATTATCAAAGTAAGAATACTCAGATTTCCATAAGCTC
TTCTCACCTCCTCTTAGCCCAACTCAAACTCCATCAGACCTTCTCACCTTGATTTTGAGC
TGGAATGTTTCAATGAGCAAAATAAATTAGACAAANGTTAAAAAAAAAAAAAAAAAAAAA
NGTACCTCGGCCGCGACCACGCTAAGGG
Sequence 2104
CCCTTAGCGTGGTCGCGGCCGAGGTACCTGACCCCGGTCCTCAAGGAATCAAAGTTTAAG
GAAACAGGTGTAATTACCCCAGAAGAGTTTGTGGCAGCTGGAGATCACCTAGTCCACCAC
TGTCCAACATGGNANTGGGCTACAGGGGAAGAATTGAAAGTGAAGGCATACCTACCAACA
GGCAAACAATTTTTGGTAACCAAAAATGTGCCGTGCTATAAGCGGTGCAAACAGATGGAA
TATTCAGATGAATTGGAAGCTATCATTGAAGAAGATGATGGTGATGGCGGATGGGTAGAT
ACATATCACAACACAGGTATTACAGGAATAACGGAAGCCCGTTAAAGAGATCACACTGGA
AA
Sequence 2105
CCCTTAGCGTGGNCGCGGCCGAGGCACTTTTTTTTTTTTTTTTTTTTTTTNGCTTTTTTT
TTTTTTTTTTTTTTTTTTNTTTTTTNTTNTNCNTTTCNATTTTTTATNCTTTTTTTTTTT
TTTTNAATGGCCAGGCTCCCAACATTTNAAAAAAACTGCNCCCCCCAATGGGTGAACAAA
GTAAAGAGTAGTAACCTAAAGTTCACCTGAGTAAGCCACTGNGGAGCCTTAAGNGGNGAG
GTCTTCCAATTTNANAGNGATGNGNCTTCAACTTGTATNATNATTTTANGCGGAAAAACA
TAA
Sequence 2106
TCGGCGTCGCGACCCCCGAGGACCTCCTCTNCTCGCTCTGTGGCATACACTAGTCCTGGG
CACTCAACCGCGGAGAGCCCCCGACCCCGGGGTAGCGGCTGAGCCTCAGCCGGGACCGGN
ACCGGANCCCGCGCGGAGCATGTNATCCGGGCTGGGGGCAGCTGGNACAGTGGGCTGGGT
TGGCCCTCCT
Sequence 2107
AATTTGTGTGTTTGTGTTTGTTTGGGGTTTTTGTTTTTATTTCTTACATTANAGTNCATA
TTTTCTGGGATTTAAATTATAGGTGTATTTTCCTATTCTCTTGAGAAGNAGACTAAACAG
TCTTTGCAATGATGACGGATGCACACAGAANAAAACATTAGAAGACATTACTTTCTATCC
TCTCATGTGGTTGANCATTCTTACACGCCAAATGACTAAATTGGTGTTTCNTAGGAAGGA
GCAGCTGTCACTTACAATGTGAAAATATTAATGTTTTAGGCCAGNGGGCCAAACCTTCAA
GGGGGCCTNGTTGGNCAATTTATNGTCCCCTNATNCTTTTNAAAAATTTGAANGGTTCAN
NNAAANTTGTNNAACCACCAACAAAACNCCCCCTTTNANCATNGNGGGGGCAANGGGGTT
GGGGACCTTNGNGACCTTAANTGNATTGGCCAATTACCGCCTTGGGGCCTTGNTNAANGC
CTTCAACNCCNAAAANAATTGGCCCACCAATTGGGGGGTCTTTTNGTNANACCTTNTTTG
NACCAACCAACAACCTTAANCTTNGANCTTCACAAANGGCTTGGGGCNAGGGTANCAACA
ACNTTCAAGGTTTATNCCGGCTTCNCAAANGGGCNCTTNAACCTTNTTTGGNGAATTTGA
AGGCTTAAAAACCTTGGCCATGGAAATCCCANCTTTAAGGGCCCAATCCCCTT
Sequence 2108
ACCACGCGTCCGAGCTCGCTCAGCACTCCCAGGTCCTTAGCACTCCCAGGTCGTAGCTGG
CGCAGTCAGTAGGAACTGTAACTATGTCTCTGATGCACCACGTGTTTAGACACAGCACAG
TCCTTTTTTCTGTTCCTACGGTGGAAGTAGTTTCTCTTTGGGCATGCTGACAGCACTTTT
TCATAGCCTCACCGATGAGCCCTTTCTGCGGGAGTGACTCCATGCCTGTATACAGAGTAT
TTATACAGATGTTTTAGCATCTTCATATGCGGTGTTAACCCCTAGTTCTGTACAGCATAT
TCTGTTCAAGTATTTTTTTACAAGCTTGTGCTGTAGGCACATGCCTTCTGCTGCAGAAGT
GGACACCCGTGGCACACCCACCCCGCCCCAGTGGGGTGCCATGCCTTCCTGGGACATTGC
CACTTCTGCCCTGGAACTCATGCAGGTACGTAGTAGCTGCTATTGCCAGA
Sequence 2109
NCGCCTATCACATAGTCAAACCCAGTCCCTGGCCACTGACAGGAGCTCTGTCAGCTTTCT

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TAATAACGTCCGGCTTAATCATATGATTTCACTTCTACTCTATCACCCTACTAACACTAG
GCCTACTAACCAACACACTAACCTTATATCAATGATGACAGTGACATCGTACTGAGAAAG
CACATACCAAGGCCACCACCACAATACTCCCGTCCAAAAAAAGCNCTTCCGGTACCGGAA
TTAACAACATATTTTATCANTTCTCNAAAAAGTTATTCTTTTTNTTTATTCGNGCCTTCT
TCTTGAGCANTTTTTTANCCACATCTAAAGGCCCTCAGCNCCACAACAACACCTGGCTTTA
AGGNGGGGCNCAATTTGNACCCANCCCANACAAGGGCGATTCANCCCCCCCCTGNAACCC
CCCCATTAGTAAAGGTACNCCCCTNNCTTAAAAACAACCCTTCTTGGNNATTTAACTTTG
NCAATCCTTGGGGGGGTNAAACAAANTCAACCCTGGAAGGCTTCACCNACAAGNCCCTNC
ATTAAAATTAAATNGACCCCGAAAAAANCAAAACCAAANTCCCAAAGGCNCCCTGCCTCA
TTCACCAATACCTAACTTAGGGTTACCCTTAT

Sequence 2110

CGTCCGGGACCTTTATGTCTTGTNAAGATGTCTAGGCCTGGCCGGGCGCGGTGGCTCACA
CCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACGAGGGCAGGAGTTTGAG
ACCAGCCTGATCAACATGGNGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCCGGGC
ATCGTGGCACATGCCTGTAATCCCAGCTACTCGGGAGGCCGAGGCAAGAGAATNGNTTGA
ACCCAGGAGGTGGAAGTTGCAGNGAGCCAAAATCACGCCACTGCACTCCAGCCTGGGCAG
CANAGTGAGACTCCGNCTNAAAAACAAAACAAAACAAAAAAGCAAAACCAGATGTCTAGG
CCAATGATAATTATTTTTGATGCATTGTGGATTANGNTCTTTTGTTAACCCCACTGTCTT
GGGGAATGATGCCTGCTGGGAAATTGAGTTTTTTGACTGAAACATGGAACCTTNCTGCTT
TTTTTCTGGNTCCTATGAAGGTTTTGGAACATNTGAAAACACAAAAACTCACCTTGAAAT
TTGAGCAGGTCGATGATGGCAAAAAATTATTT

Sequence 2111

GCGTCCGCTGATCTGCTTTGGGACGGCCTTTATATACTTCCTCCTTTCCAGGCCTTCCAC
CACCAGTGACCACTATTCGACATCTGGCCCACTCTCAGTCATCCTCCTGCTTATGCTTGT
CTNCTCCTTGAAGGCTTCCCACTGCATGTAGGACAAAGGTCAGATTTTGTAACAGGCCAG
GCCTGGNCTTNATAGTCTGGNATCCACTAATTTATGGTCTNAGTCTNATCCCTTGGAGGA
TTACCTCTGNCCTTNGNAAGCTCTGTGCTCCNG

Sequence 2112

TTCATAACAATTCTCCTACAAATCACCTTAATTCTGACATTCATGGCCACAGAACTAATT
ATATNCTACATTCTATTTGAAACCACCCTTATCCCCACCCTAATTATCAGGTACTAAATG
AGGCAGCCAAGCAAAACGCCTTAACGCAAGNACTTACTTTCTATTCTACACACTAACCGG
CTCTCTACCCCTACTCATCATACTAAGCGCACACCTACAAACAACACAGGCTCACNTAAA
CATCACAGCTANCTAACACTTCACGNGACCAAAAAAACNTAACAACCCACCTGGGNNCCC
CACAGCANTTACCCTGGGCCTAGCNANTGGCATATATAAGCGCTTTTATGGACCAAAAAA
TACCCCCTTNTTATNGGGGTCTACACNCTTATTGACTTCCCNCANAAGNCCCATGNTTTG
AAAGCCCCNCATTTGCAAGGGGNTCAAATANGTCCTTTGCACGNCAGNTACCTTCCTTAA
AAACTAGGGCNGGCTATGGGGCAATAAAATACCGGGNTTTAACTCCCCATTTCTTCAAAN
ACCCCTTAAACGGGAAATTANCATAAGCCNTACCCCATTTCCCTCATTATTAATCCCTTA
TGGGGGCNATAANTCATAACAAAGGCCNTAAACANTGCCTCCCGACAA

Sequence 2113

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGCTACTTTTTAAACAATTTCAACTGCA
GCTCTCTTTCACTAAGTNAGATGGGNAAAGCATGCCATTTCTGTTTNCTTGNGATTTTTA
CTTTTTAGAAACACACATGCTTCCACTGCCATCTGACACTTCTCCACACGCTTTCATNTT
GTAAACCTGAATTCTATTTNGAGTACCTATCAAATACTTTCTGGAGGNGGGGCACGCTCC
GCTCGGTCATGATGCTGATCCACTTGGGAACATCAGTTCCTTTCCTCTTCACTCCAGCGT
CATAGAGATCCCGAGCATCTTGGNNAATCAGTTCATAATCAATGACAGAGCCATCCTCTG
CTCTTCTACCCTTTGCCA

Sequence 2114

GTGGGGGGGGGGGGGGNAANCTCGTTGGGACNCGCCCCNAATTNNNANNNAACCNNNGNN
CNNNCTNGAGGGCGAAGGNATNNATAAGCTTGAGGGGGGGGGGCTGGANACCGANGNATC
CACTAGTTCTAGAGNGGGCCGCCNACCGGGGTGGGNGCTNCAGCTTTTTGTTCCCTTTAG

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TGGAGGGGTTAATTGCGGCGNTTGGGCGNNAATNATGGGNCATTAGGTGGTTTCCTGGNG
TGGAAATNGTNATCCGGGGGGGGGAGGTNCANACAAAATAGCNGAGCCCGGNNAGNATAAN
AGTGTAAAAGCC

Sequence 2115

GCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGTTGTGTCCCTTTCTCTTCAAAGAT
CCTGAGCAAAACANNGATACGCTTTCCATTACCTNATGGGGGGGNCNNGGACCCAGCTCT
TGGCATTGCTANGGNNGGCTANNATCNNGCCACNTGAGGNTGTGGANNN

Sequence 2116

CTAACTCACATTAATTTGNGTATGCGCTCACTGCCCCGCTTTCCAGTCGGGAAAACNCTG
GTCGTGCCAGCCTGCATTAATGAAATCGGCNCAACCGCCGCCGGNNGAGAGGGCCGGNTT
TGCGTATATGGGCAGCTCTTCCGCTTTCCTCGGNTCACTTGACTCGCTTGCGCTCGGGTN
CGTTTCGGGCTTGCGGGCGAAGGCGNGTATTCAGGCTCACTCAAAGGGCGGGTNAATACG
GGTTATTCCAACAAGAATTCAGGGGGGATAANCGCANGNAAAGAACCATTGTTGAAGCCA
AANAGGGCCCAAGCAAAAA

Sequence 2117

ACCTGTCGTGCCAGCTGCCATTAAATGAATCGGGCCAAACNCGCCGGGGNAGAGGGCGGT
TTGCGGTATTGGGGNCGCCTCTTCCCGCTTTNCTCGCTCACTGACTCGCTGCGCCTCGGT
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCTTCACTTCAAAGGGCGGGTAATTACCGGTT
TATCCACCAGNAATCAGGGGGNATAACCGCAAGGGAAAGAACATTGTGAAGCCAAAAGGG
CCCANCAAAAAGGCCANNGAACCCGTAAAAAAGGGCCGCNGTTTGCTTGGCCG

Sequence 2118

CCGCGGTGGCGGCCGCCACGCTGGTTTTGCATCTTCAGGAGACGCTCGTAGCCCTCGCGC
TTNTCCTCGGCCAGTTCGCGGAAGAAGTGGCTCACGCCTTCCAGAGCCACATCATCGCGG
NCGAAATAGAAGCCCANAGAGAGGTAGGTGTAGGAGGCCTGCAGGTACAACTTGTTGGCC
TACATAAAACACCTAGATGGTAACAACGAGGCAGCCCTGGAATGCTTACGGCAAGCTGAA
GAGTTAATCCAGCAAGAACATGCTGACCAAGCAGAAATCAGAAGTCTAGTCACTTGGGGA
AACTACGCCTGGGTCTACTATCACTTGGGCAGACTCTCAGATGCTCAGATTTATGTAGAT
AAGGTGAAACAAACCTGCAAGAAATTTTCAAATCCATACAGTATTGAGTATTCTGAACTT
G

Sequence 2119

GGAGCTCCCCGCGGTGGCGGCCGAGGTACCTAACCTACCTTTAAGACTGGGATAACTATT
GGAAACAATAGCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGC
TTCACAGCTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGGTAATGGC
CTACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCTGTACCTGCCCG

Sequence 2120

TGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGGAGTCTTGCTCTGTT
GCCCAGGCTGGAGTGCAGGGGCGCAATCTTGGCTCACTGCAACCTNTTCCTTCCAGGTTC
ACGCCATTCTCCTGCCTCANCCTNCCAAGTAGCTGGGACTACAGGTGCCAGCCACCACGC
CTGGGCTAATTTTTTGTATTTTTAGTAGAGACGGGATTTCACTTGTGTTAGCCAGGGATG
GTCTCAAACTCCAGACTCTCGTGATCCGCCCACCTTTGGCCTCCCAAAGTGCTGGGGAAT
TACANGGCATGAGCNCACTTGCGCCCNGGCCAAAAAAACAAACTTTTTTTAAAAAAATGG
TACCTNGGCTCGCTCTAAGAACTAGGGGGGATCCCCCGGNGCNTGCAGGGAATTCCGATA
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AGCTTTTTTGGT

Sequence 2121

GGTACCTTGTCTGGAGAATGCAGTGACAGCACCGGCCCATGCTTGAGAACCCANGCGGCT
GTGCAGAGGGCAGCCGACCACTATAGCCAGCAGATGGCCCAGCAACTGAGGCTCCCCACA
GACACGCTCCAGGAGCTGCTGGACGTGCATGCAGCCTGTGAGAGGGAAGCCATTGCAGTC
TTCATGGAGCACTCCTTCAAGGATGAAAACCATGAATTCCAGAAGAAGCTTGTGGACACC
ATAGAGAAAAAGAAGGGAGACTTTGTGCTGCANAATGAAGAGGCATCTGCCAAATATTGC
CAGGCTGAGCTTAAGCGGCTTTCANAGCACCTGACAGAAAGCAT

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Sequence 2122
GGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCNGGCCAGGTACCCTTGGAAGATGGGAA
AGGTGAGGGAAATATNNGAAGCAGGGTCAGAACATCCACTAAGAACATAGCACCTNAGTA
NAGCTTACATTATATGAGCCAGGGTAGAGTTANTACTGAAT
Sequence 2123
TACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTTTTGCAACTCGAGACGTTAGTTTACTCCAGAGTCATGGAGACAGTGAATGGAGTGTGT
GTGTGTGTGTGCGTGTGCGTGAGTGAGAGAGAGAGAGAGGAAGAAGGGAGGGAGGGATGG
TTACAGGAGTGTGGGAAAAGTCAACAGGAAAAGGAGGGAAGGTTCGCTGTNAACTGACAG
AAACTGTGACATCACAGGCATGTGCGGAGTCCCCGCCCCCCCAGGCACTGTGCCAAGGCC
AGTACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGGNCTGCAGGGAATTCT
GATATTTAAAGCTTATNNATACCGACAACCTCNGAGnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGCTTNGCCGTANTCATNGCCAATAGCNTGTTT
NCTGTGTGAAAANTNGTTTATTCCCGCTCACAATTTNCACACAACATACNAACCCGGGNA
GCATAAAAGTGTAAAAG
Sequence 2124
GCGAATTGGATCTCNCCGCGGTGGCGGCCGAGGTACCTTTTTAAATCTAGCCCAGTATAA
ACATTAGCCTGCTTAATATTTAGACATTTATAGGTAGAATTCTGAGCACTCAACTCATGT
TTGGCATTTTAAAGTAAAAACAAGTGTGACTTCGAGGACCAAAGAAATTGTCAGCTATAC
ATTTATCTTTATGAACTCATTTATATTCCTTTTTAATGACTCGTTGTTCTAACATTTCCT
AGAAGTGTTCTTATAAAGGTCTAATGTATCCACAGGCTGTTGTCTTATTAGTAAATGCAA
AGTAATGACTTTGTCTGTTTTACTCTAGTCTTTAGTACTGGTTGTCAGGATTCAGCCGAA
TGGCTTGCCTCAGAGGGTCAATGGCGTTCTGAGATGGTGGCCAGTTGTCCAGACGGTAGC
TTGCTATTGCCAGTCCAGAGGTGAATTCTGGGTTCTTTGGCT
Sequence 2125
GCGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGTGAAAGTTCTTGATGAGGG
TCTCAATGGCCCTCTCCACATCACTGAATTCCTGAGCATCCTCTGCGTTGGCTGACCGAC
ACTGTCCCATGGTGCCCACTGTGTCTGGTCCTTTGGTGAGAGTTCTGTTGTCCTATAGCT
GGCCCCAGAGGAGCTGATGGCTCATGATCTGTTGGCAGCCGCTGAGACAAGACAGGAGGC
CCCGCGTACCTGCCCG
Sequence 2126
CCGCGGTGGCGGCCGAGGTACCCGGTGCGCATAAGAGGAAGATTTCTGAAGAGTGCAGCT
GCCTGAACCNANCCCTGCCGAACAGNTGANAATTGCACTGCANCCATGANTGAGAACAAT
TAGAATNCCTTGGNGGGCAGCCTACGGNANCTNAAATGCCATTTAACCTGGAACTTGATG

Sequence 2127
AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCACGANGTCATATGTTATTTACAATT
GGGTTTGTGTGGGATGGGAAGTAGGGCGGATGAGCCAGTACTTNTGCAATGAAGATGCAA
TAGTCNTTGTCCTNTCCCACTGTCNCCTNTTTCCTCACCCNATGGCAGCTTACATGACCT
ATTCCCAAAGGGTCCACCGAGNCCTGAACTCAGCTTCATCACCAACATTCCTCGCCTTNA
GNAAGAATTCAACACTGTATAAGGGAGTNGAGGCANAGACTTGGGNCAGGGNGAGGGTGG
NNAACACNNAAGCACACTNTCTTGTCATCAACCCAAGTTCAGAGACAAGGCCTCCNCANA
TGNGGAAGATGATGCCCTTAGACACCNCAACCTGNTTGTCNNCNTTCNTNGAAGCNCAAA
GCAGCCTGNATCTCAACTGAAGAGAAGGGG
Sequence 2128
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGGGGAATGGAA
TGGAATGGAATGCAATGGAATGGAATCTTCCGGAATGGAATGGAATGGAATGGAACGGAA
TGGAACGGAATGGAACGGAATGGAATGGAATGGAATGGAATGCAATGGAATGGAATCTTC
CGGAATGGAATGGAATGGAATGGAATCAACCCGAGTGCAATGGAATGGAGTGGAATGGAA
TGGAATGGAATGGAACAACCCGAATGGAATCGAATGTAATGGAGTTGAATAGAATCAATC
CGAATGTAATGGAATGGAATGGAACCGGAATGGAATTGAATGGAATGGAATGGAATGCAA

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TGGAATGGAATCAACCCGAGTGCAATGGAATGGAGAGGAATGGAATGGAATGGAAGGGAG
ACTACCCGAATGGAATGGAATGTAATNGAGTGTAAGGGAATTGAATAGAATCAATCCCAA
TGTAATGGAATGGAATGGAATGGAATGCAATGGAATGGAATCTTTCCGAATGGAATTG
Sequence 2129
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACNCGGGGNACTGAAANTCCA
CACGACANAATAGCCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCTGCAGAACGGCTG
CCTAATTTACAGCACCCATGAGGAAAGGCCACTTANGGATGCAGCAAGAAGGAGCCATCT
GCAATCCAGGAAGAAATTCCTTGCCAGGAACCAAATTGGTTGTCACCTTCATCTAGGACT
TCTAGCCTCGAGAACTTACAAATGGTGATGATCATCAGGTCAAGGATAGTC
Sequence 2130
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAACTGAAAATCCAC
AAGACAGAATAGCCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCTGCAGAACGGCTGC
CTAATTTACAGCANCCATGAGGAAAGGCCACTTAAGGATGCAGCAAGAAGGAGCCATCTG
CAATCCAGGAAGAAATTCCTTGCCAGGAACCAAATTGGTTGTCACCTTCATCTAGGACTT
CTAGCCTCGAGAACTTACAAATGGTGATGATCATCAGGTCAAGGATAGTCTGGAGCAATT
GAGATGTCACTTTACATGGGGAGTTATCCATTGATGACGATGAAATGCC
Sequence 2131
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTATCATTAATGTAT
TATATACACTGATACTTTAAAACTTGTGTGGAAAAAACTAACTTATAATTTTGTATCACA
CACCCTGGATATGTGTTCTGTTTCTAAGCGACATTTGTGAGAGATTATTGTAAAATGAGA
GCGAGCAAATAAAACTTAATTTAATCTTTGCAGATACATACTTATGGGAAATTTGAACAA
ATGAGTGAAACTCTGTGTTTTTAGTAGGCTGTGATAAACATTTCCGGGCACTTTGCAAAA
GGACTTTCTTTTTTGCCGGGNGCTTTAATNANTTAATAAAAATTTTTTTAAAAGTTAAAA
AAAATNGTGGNAAANAAAACTTTTTTTTTTTTNTTTTTAAAAANNAGGNTTNNANNAAAC
NTTTTNTNTTTNGCCGNANNAAANCCCCCCCCCCCCGGTTTNCNGGGGAAANAAAAAAAT
NNGGGCCCNCCNTTTTNTTTTTTTCNGGGGGGGGGGGGGGGGGGGNTTTTTTTTTTTGN
GAAAAGNGNTGTTTTTTNNCCCCCCCCCCCCCTCTTTTTAANANAAAAAAATTAATTGGG
GGNNNTTTTTTTTTTTNNATTNNNNACCCCCNCNAATTNGGTNTTTTTTANNTNAANANC
CCCCCNGGCCNTTNNTNATANATGCCCCCCNCCCCCCC
Sequence 2132
GAGGTGGTTACATTCGTCGAAGGACACCAGCTGCGGAATTTGCGGNTTTGGCAGATTGAA
ATCATGGCNGGTCCAGAAAGTGATGCGCAATACCAGTTCACTGGTATTAAAAAATATTTC
AACTCTTATACTCTCACAGGTAGAATGAACTGTGTACAGAATCCATTCTCATTCTTTACT
TGCTACATTATGACCATGAGGAGGGCANAGTAGAGGTGAACTCTCTGTATACTTGCTGAA
AGTCTTCTTGTACCT
Sequence 2133
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCAGTAAGAGATGGG
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GTTCCCAAAATGTTGGGATTACAGGTGTGAGCCACTGCACCAGGCAAACTGCGATCTTTT
AGTGGTGCCTCTTCTCTCTTTTGACTTAAGGATGTTGTCCCTTAAGGAAACCTGGAGGCT
ACTACTGTGATACACTACTTGAGAGATGGATTGTTGCTCTTTCTTCTACAGTCTTACANG
GAGTAGATTATAAAGACGGAAGATGTTACCATTTGCNTTAATTGTTGGAAGCTGANAGCT
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GGGNGGGGGGCCCCNNCCAAAAAAAAAAAAAAAAGGGGGTTTTTTNTTNCCNGNNNCCGG
GGGGGGGGNNGGGNCNNTTTTTAAANCCTTTTTTTTTGNTTNCCNCCNAAAAAANNAACC
CCTNNNGGGGNGTTTTTTTTTTT
Sequence 2134
CCGGGCAGGTACAAGAGATAGAAAGACCAGTCCTTGCTGAAAGACAAGTCTGAATGCTCC
ACTTTTTCAATTCTCTCTCCATTCTTCAGTAAGTCAACTTCAATGTCGGATGGATGAAAC
CCAGACACATAGCAATTCAGGAAATTTGACTTTCCATTCTNTGCTGGATGACGTGAGTAA

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ACCTGAATCTTTGGAGTACAGGACAATNAAGACTACTCCTATNTGCGGAACAACTAGCTT
TCTATTTAGTTCTAGAATGTTGAAACTGACCGATTGGCTGACATAAAAGTCACATTTTAC
AAAAAAGTGTCTCCAAATGCTTTGACTAGGGGAAAAACCCCTTTTCAATTAGAGGGAGCC
ATTNTGCAACAAATTTCCCACAAATAATTCGCTTATTCCAAGGGGCAANGGCACCATTTG
ATATNGGGAAATTTTTTTGTTTTTNGNGCCAAAATTTAAGGGNA

Sequence 2135

CGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCCAAGACTCAGCACTAGTCTGATG
ACCTGCTAATTCACTGACAGCATAGGGCTGTCTGTTGTTTTTGCGCAAGTTGGTGTGAAC
AAAGTTCACAATATCTGGTCGAATAGGAGCCTTGAATACAGCAGGCAAAGTGACATTTTT
GCCAGATGACTCCCCCTTTTCGGAGTACCTTGTTCAAAAAACACCGCTGAGTCACTTCCA
GGTGCTGTTAAGTTTTCTTTAGTGAAGATGTCTATACCAGAGGGAGCATAGTTCCAGATG
ATTTCCTCAGCGGCAATGTAGTAGTGTCTAACATGCTTCCCACGGATATTATCCTTTTGA
TGAAGACTTTGTTACACTCCTGGACCTGGAAAAAGGCTTGCAAACCGGC

Sequence 2136

TNGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGAATGTAGAAA
CAATGAGGATGGACCTGGTTTAATAATGGAAGAACAGCACAAGTGTTCTTCGAAGAGCCT
TGAACATAAAACACAGACACCTCCTGTGGAGGAGAATGTAACTCAAAAAATTAGTGCCTG
GNAAATTTGGGCTGATGAGCTTTCTGGATCCTAAGCCACCTACCGAATTNTTGGANGGTT
GGCTGNNGGTGTGGGGAAACACAAGTCTTTTCCAATTTTTACAAAACGAACCAATTGACC
CCAGGGACTTNTTTGGTTTATTGGGTGGGG

Sequence 2137

CCGCGGTGGCGGCCGNNGTNCNCGGNGCCNGAAGAGGAAGATTTCTGAAGAGTGCNGCTG
TCTGAACCGAGCCCTGCCNAACAGCTGANGAATTGNACTGCAACCATGACTGAGAACANT
AAGAANTCCTTGGAGAGCACCCTACGGCAACTAAAATGCCATTTCACCTTGNAACTTGAT
GGAGGGGAGAAAACT

Sequence 2138

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNCNGGCCAGGTACCANATGAANNG
NNAAGACAAGGCCATNCNCCACTTTATAGAGGGNGTNAAANTAAACCANAGNTCCNGGGA
GAAAGAAANG

Sequence 2139

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGTTTNATCATATTTAGGTTATTTATT
AATGAAAGGTATNTGANATTTTCAGGAATACAAATTTTGCACCCTGATGACCTCAAATGC
GTGCAACAAGATGTTTAATACANGAAAATAACACAAAAACTGTTGTTACAGTGGTTAGAA
TTTTTAACTTTAAAAAACCATGAATTTGTATTGNTTTAATTGCACAATAAAATAATGTTG
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GCCTGATGTTGGGGTTCAANTCTGGACTTNTATTTTTTGGGTANCACACTCAACTTTTGA
ATTGTNTTAAGGGNTTATTTCNANCCATTCTAACTCTANGAAAAAATNTTNAAATTNCGT
TTCCCAAAGNCATTANCCGNGGAATTTTTTGTTGATTTTCTNCAAGAAAAAATTTTTCGG
GAGGTTAAAAGGAAGGNGTNTAATATCACTTAATTATCCCAACATTTTCTAAAGGGGGGG
GGAAAAC

Sequence 2140

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTATCAGCTAATTGGGCTCCTTT
GAAATGCTGAGGATCTGCTTACGCAGGTTAACTCTTTGAGGAAGGGGGTNGGGTAAGTAG
CCCTTAATGTCTTGTAAATCAAGGGGCCAGATGGCGTTCGTCAGGCTTTCCCAGCTAAGG
GAGAGTCTACTCATATGGGAAACAAGCCTAGGTAATTAAGGAGACAAAAAGGGAAAATTT
AAAAATAGGGTTAGTAAAAACAAGGTTAAAATAGGGTTAGTAAAAAAACAAGGTCAGGCA
TTACAAAAGGATTCTCCTGTCTCAGCCTCCACTGGGATTACAGGCTCGCACCACCAAGCC
CAGTTAACTTTTGTATTTTTAGTACCTGCCCGGGCGGC

Sequence 2141

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTT
NTNAGCAAGCACGTGCACTTTATTGAATGACACTGTAAACAGGTGTGTGGGTATAAACTG

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CTGTATCTAGGGGCAGGACCAAGGGG
Sequence 2142
TGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTTACCCTTGTCCCTCTCCTAA
AGGGAGCACAAGGAAACTGAAGAGACTGAAAAAGAAGAGAGTTTGTAGCTGCAAAAGAAT
AGGGATAGCAAGGAAACCCAGAACTGCATTCCCCTAAGTGGGGCCATCCCATGTGATTGA
ATTGTCCATAGCTTGCCTATGGTGAGAAATGTGCATGCTCCGTGAGCTGGTCTCTTGAAA
CAGGACTTATGCTTCCTCTATATTCTGGTTAAATTTTCCAAACACATAAGTTCACTGAGC
ACAGATTTCTTATCCAGAGACAAGTAGAATCTAACCGCAGACTGTTGGCAGAGTTTCCAG
GCACTTAGCCATGTTCCCTTCCTGACTCAAATCCCCAAAGGCCTTCACTCTCACTGAGAA
TCACACTACTGTCCCATAGATAAGGCAGGCATTGAAGCACCTGTCGTGATCCTCTAGGGG
GGAGAATGAAAGGTTATTTTCCTGCATTGCATCATCATAGCTTTTAATA
Sequence 2143
AGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNGGNGCNNNGCTCTACAGAATAGAGGCN
ATNCTTTAGCTTAAGCCTGTCTGCTGACCAGAGAATGGAATTNTGCGTGGNCTCANGGAA
CAAAAGGAAACTAGGCAGGGAAGGGGAAGAAAAGTGC
Sequence 2144
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GAAATATCCAGTTATAATATTTTCAAAGGNTNGAATTGNGAAGAAAAAAATATAAAATGT
GATTAAAGGATNTNTAGCCTTCAGATGTAATTTACNGGGTTTAAAAATTGGCCCCTTTAA
AACTTTTGCTTTTTTAGACNAGNNNTAAAAAGGCACAATGGAGACNCCATATTGTTANTG
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Sequence 2145
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AAAAAAAGTTTCCTTGAAATCNGGGAAACAAGACATTTTAAATGAATCAANCAAAATTTC
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TAANTTCATTAAAAGTTT
Sequence 2146
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Sequence 2147
TCCCCGCGGGGCGGCCGAGGTACATNTGCCTGNCTNCCTNCTGTCCTTCCTTTTTATTAT
AAGGATACATTTATAGNACCCCATAGAAGGAAAAGATAAATTTCATAGGCTGNTAAAAGA
GGCTAGGCCTAAGTTATAATGCCTCCTCCTCACAGNCCAATTTNCCCAAGGGGCNTTANC

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ACCAGAGCAGNTTTTCTAGCTTGNGGACAATNCCNNCAGGCTTGAGTGATAATGNCCCNG
TNGCGGTAGCTCTCCACTTGNTNAAGGACCAAANACACCTTAGCAG
Sequence 2148
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTT
TTTTTTTGACTTTATATATAATACTTTATTTTATACAATTCAGTATATCATGTTAACATA
TTTCACTTTTAATTTTATGATATGTGTGACATATTTTTAATTTTATGGATTCAATTATAC
TATCATAATTTTTTTTAAAGTTTGTATCTTTCATTAATAAGGAGGNTCCTTATTAATGGAT
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AGCTCCACAGTGTAGACATGTTTTGGCCAACCTTGTTTTATCGGTGTATGAAATTTGTGC
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Sequence 2149
TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTT
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ATTATACTATCATAATTTTTTTTAAAGTTTGTATCTTTCATTAATAAGGAGGTTCCTTATT
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TTTTACATTNGGGGCAACNTACCAAAATTTT
Sequence 2150
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CCTCAGGGAAAATGGAAAATACATTCCCAAACAGTCTTTCTTGACACGAAAATATTATTT
CAACAACCCAGAGGATGGATTTTTCAAAAAAACTAAACGGAAGGTAGTGCCACCTTCTCC
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CCATTTCCACTGACCCTTCGTTTTAAGC
Sequence 2151
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GATGGNGAAGTGCTAAATNACACAATTAATCAACTGGCTGAGTTAGCTAAAGATGCATAT
GTTATTATAGGTCCANACGCAAGANGTTTCTTNCTTGGGACACCTACTGCANCTNTTTTA
AAAAAACCTTTTATTATGGTAAGAAAACCTAAA
Sequence 2152
AGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGNNGGCCATTACCCTACCAAC
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TCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTT
AAAGGTAGGTTAGGTACCTGCCCG
Sequence 2153
AGGTACACTTCTAGCACCTAGCAGAGAGAGGCTTCACTACATNATGCTTCCTGACATCTC
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AGGTGAGGTTGCTGGGGGAACTCTTTTACAACATCTCTCTGAAAGAATCCGGGCTGCCAG
TTTCATTTGGTTTGGGTGTCAGTAGCATGATGGAAAGACAAAAAAACACAACTTGACATC
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AAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCA
AGGGAGAAAGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAA
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ATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCA
GCATCAAGCTGGAATGGGG
Sequence 2154
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AGGCTGCGTGGCAGGANNGNGNTCAGATTNTCCCCTGCACNGNAATTGGGCTTTNAGGGG
GAAATGGTGGGGCCATCT
Sequence 2155
GAGCTCCCCGCCGTGGCGGCCGCCCGGGCAAGGTACANGTGTGTGTGGGTGAAATGGAGA
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GTGTATAATAAAAGTATTCTTGTTAGAATCTGAAAAAAAAAAAATGTAAAAAAANNNTAA
AATAAAGGTTCCTTGGCCCGCTNTANAACTAGTTGGATCCCCCGGG
Sequence 2156
CGGCCGCCCGGGCANGGTACGCGGGGACACAAGACATCATCTTGAAGGAAGGATGGCTTT
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CTGGGCCATCTACGTGGGAGATGGCTATGTGGTCCATCTGGCTCCGGCAAGTCACTGGTG
CAGTCACGACAGTAGGTGTGGCAGCAGGCCTGCTGGCTGCCGCAAGCCTTGTGGGGATCC
TGCTGGCCAGAAGCAAGCGGGAAAGGCAATAAATCCAAGAAATTGTCCCAACAACCACCA
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CCNAAAAAAAAAAAAA
Sequence 2157
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GAACAAACAGAAACTTCCCCGCGTACCT
Sequence 2158
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AATNCCCCTTTGGTTGAAGNGGCAANGTTTTGTTTGGAACCTTGGAAGTTT
Sequence 2159
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CTCTGCTTTGGATG
Sequence 2160
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TCAATTTGAGAAAAAGGACATATGAGTTTTTGCATTTATTAATGAAACTTCCTTTGAAAA
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CCTTATTAATTTTTATATAAATTATATCTTGNCCTAAAAAAAAAAAAAAAAAAA

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Sequence 2161
ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCACGTAAAGACGTTAGGTCA
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AGCCCTTATGAAACTTAAGGGTCGTTGAAAANAAANGANTCANAANTNTANAAAAAAATN
ANGNNCCTN
Sequence 2162
NCCGGNCAGGTACGCGGGGCACAGCGGCTTNCTTGATCCTTGCCACCCGCGACTGAACAC
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CAACNACTGTTTACGCANGGCTTCTGNCATGCTCCCTTTATTTGGAGAATTGNGANTTTT
TCAAGNACAATTNCAATTNCACCAAGTTGTTCTAATNACCTGAAATATCCAACAGANACN
NTTTTTNAANGAAGTTTTCANTAANACCNNACAANTGGCCNACTTTACNAAAATTGGCCA
TTATTATTGAAATNTGTAANNGNANATTGTTT
Sequence 2163
GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGGACAACACAAA
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TGTCAAGTATTCCTTCCTCAGGTTTAGGATATCCTGGATAATTTGAGACTGGAGGCTTGT
AAGTAGGCCTAGGACCTGAGGCACTGGACGCTGGAGATTTTGTAGTGGAAGAAGTCGACA
CTTTAAGACACTTTGGAACTGGGGGATCCCAAGTACTTGTGGAAGGTGGACACCATCACA
TCCAGGGCCTTCTCCAGAGGGCACGCCATGACAGCAGTCAGGATCAAACCAAGAAAGAAG
AAGCGCTTAGGAGAGAGGGGTTGTAGAGAGGGGGAAAGAATTCCCGCGTACCTTGCCCCG
GGCGGCCCGCTCTAGAACTAGGTGGGATTCCCCCNGGCTTGCCGGGAATTCCNATTTTCA
AAGCTTTNTCGGATNACCCGGCGACCCTTNCAAGGGGGGG
Sequence 2164
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GGGGCTCCCNAAGNGCTGGGATTACNGGCATGAGCCACTGGGCCCNGGCAAAAAAACAAC
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CCCCNNTNNGGGGGGGGGGG
Sequence 2165
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AGGCTTTTTTTGGNNTTCC
Sequence 2166
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TTCGACAACATG
Sequence 2167
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ATTATGAGNAAGAACTTTTTCAATTGGGGTTANNTTCTAGGGATANACTCAAGTATNTTT
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GNATAACTTTTCCGTTGTTTTACCCAAATTTTTTNTTTAAGAACTTTG
Sequence 2168
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TGGGGCCTTTTTTTTTTTCCCACCTGGCAAGAATTCAAANAATCGGAAAAATAATGGGGCC
NTG
Sequence 2169
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ANTTGGGCNNCAAATTNATAAGGGNTCAATANNANCNAGGNNTAACCAATAAANNACCCN
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A
Sequence 2170
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TCCCNTTGGGGCNTTGGCAGAGGGGGAGAAAAGGCTTCAAAGGAACTNGGTGGCATNANC
ACCCCCCTCCCCCAATGAGGACACCT
Sequence 2171
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GTGGAATCTGTGAGTGTCCTCTTAAGTAGCGTGGGCTAGCCAATCTGCTCGTTNATGGGT
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AAATATTAAAATTAAAAATATANTTNTNTTGAACTTAAAAAAAAA
Sequence 2172
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GCTTANNGAATTCCGCCNACCTNGGAGGGGGG

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Sequence 2173
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATCCCAGCCCCCCAGGTTCGC
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GCACGGTGGTCAGAATGCAGGGCCTGGCCTACAATACTGGAGTTAAGGAAATTCTTAACT
TCTTCCAAGGTTACCAGTATGCAACCGAGGATGGACTTATACACACAAATGACCAGGCCA
GGACTCTACCCAAAGAATGGGTTTGTATTTAAGGGCCCCAGCAGTTAGAACATCCTCAGA
AAAGAAGTGTTTGAAAGATGTATGGTGATCTTGAAACCTCCAGACACAAGAAAACTTCTA
GCAAATTCAGGGGAAGTTTGTCTACACTCAGGCTGCAGTATTTTCAGCAAACTTGATTGG

Sequence 2174
CCGCGGTGGCGGCCGAGGTACGCGGGGACTCGCGTCGGTTGGCGACTCCCGGACGTAGGT
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TGCCGCAGTACGCGGGGGGGTGAAGAAGGGGCCGGCCTTCAAGCAACAGCGACGCAAGAT
GGCAGCCACCACGGGCTCGGGAGTAAAAGTCCCTCGCAATTTCCGACTGTTGGAAGAACT
CGAAGAAGGCCAGAAAGGAGTAGGAGATGGCACAGTTAGCTGGGGTCTAGAAGATGACGA
AGACATGACACTTACAAGATGGACAGGGATGATAATTGGGCCTCCAAGAACAATTTATGA
AAACCGAATATACAGCCTTAAAATAGAATGTGGGACCTAAATACCCAGAAGCACCCCCCT
TTGTAAGATTTGTAACAAAAATTAATATGAATGGAGTAAATAG
Sequence 2175
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ACATTTTCAGGAATACAAATTTTGCACCCTGTGACCTCAAATGCGTGCAACAAGATGTTT
AATACAGAAAATAACACAAAAACTGTTGTTACAGGGGTTAGAATTTTTAACTTTA
Sequence 2176
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CCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTCGAA
ATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAATGTC
Sequence 2177
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ANCCCCCNTTTTTTTTTTTT
Sequence 2178
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTT
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ACANAAGGAATGATCTGGTGGCAANAAATTAACCANTGCTTTTATTATCNANGCACTTNN
CACTATGCACTTTTTCTGAAATATTTTTGTAACACTTTTTTGTATTTTTGCCATTTGAA
Sequence 2179
CCGGGCAGGTACAAATGATGAAACGGAAAGACAAAGGAAATTTTCCATTTTTGAAGAAAA
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CTTAAACACCAAAGGATGTGGGGATGTTTTCCAGATGTTCTTTGGTGTANAAGGACAATG

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ACATCAAGAGTNGTTGAANGTATCTTGCCACTGNTGGCCTTTTGATTTTTTNTCCCACTT
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ACAAGAAAAAATANTATANCTGAAATGCATCTGTTAAAAATGTNATGATTGNAAGCATAA
CTGAGTTTCA

Sequence 2180

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TCTTCACGGAATTTCCAGACCACGCTTGCCCACTGGGAGGCTTTTAGGACCCGAGACGTG
TGCAGGCTTTTCCAGCCAAAATGAAGTTTAATCCCTTTGTGACTTCCGACCGAAGCAAGA
ATCGCAAAAGGCATTTCAATGCACCTTCCCACATTCGAAGGAAGATTATGTCTTCCCCTC
TT

Sequence 2181

TTTTTTTTTTTTTTNGTTACATAAATTAACCCATTTATTATAGGCCAGTGATGTCTCAAA
GAGTAGAGGAGCGTCTACTGGTCTTTCAACTCCTTCAGTCTTCTGATGGCGGACTTTACC
GNGACAGCGGAAGTGGTATTGNACCTGATTTTATTTCCAGTTTTCATCCGAATCCACTGG
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Sequence 2182

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CAATGACCAAAGTACCTGCCCG

Sequence 2183

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGGCCCGAAGCGTT
TACTTTGAAAAAATTAAGAGTGTTCAAAGNAGGCCCGAGCCGCCTGGATACCGCAGGTAG
GAATAATGGAATAAGGACCGCGGTTCTATTTTGNTGGTTTTCGGAACTGAGGCCATGATT
AAGAGGGA

Sequence 2184

AGGTACGCGGGGACTCGCGTCGGTTGGCGACTCCCGGACGTAGGTAGTTTGTTGGGCCGG
GTTCTGAGGCCTTGCTTCTCTTTACTTTTCCACTCTAGGCCACGATGCCGCAGTACGCGG
GGGGGTGAAGAAGGGGCCGGCCTTCAAGCAACAGCGACGCAAGATGGCAGCCACCACGGG
CTCGGGAGTAAAAGTCCCTCGCAATTTCCGACTGTTGGAAGAACTCGAAGAAGGCCAGAA
AGGAGTAGGAGATGGCACAGTTAGCTGGGGTCTAGAAGATGACGAAGACATGACACTTAC
AAGATGGACAGGGATGATAATTGGGCCTCCAAGAACAATTTATGAAAACCGAATATACAG
CCTTAAAATAGAATGTGGACCTAAATACCCAGAAGCACCCCCCTTTGTAAGATTTGTAAC
AAAAATTAATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCCAAGAGCCATATC
AGTGCTAGCAAAAATG

Sequence 2185

CCGCGGNGGCGGCCGCCCGGGCCGGTACGCGGGGAACTGAAAATCCACAAGACAGANTAN
CCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCTGCAGAACGGCTGCCTAATTTACAGC
AACCATGAGGAAAGGCCACTTAAGGATGCAGCAAGAAGGAGCCATCTGCAATCCAGGAAG
AAATTCCTTGCCAGGAACCAAATTGGTTGTCACCTTCATCTAGGACTTCTAGCCTCGAGA
ACTTACAAATGGTGATGATCATNAGGTCAAGGATAGTCTGGAGCAATTGAGATGTCACTT
TAC

Sequence 2186

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGNA
AAGAAACCTTTAATGAGGATTCAAGGTTAATAAGGAAGACNCAGAGGGCCAGCACTCAGC
CCCAACCTNCTCACGTGTACCAAGAAAAATAAAGAAGAGGCTGCAGAATATGCTAAACTT
TTGGCCAAGAGAATGAAGGAGGCTAAGGAGAAGCGCCAGGAACAAATTGCGAAGAGACNC
ANACTTTCCTNTCTGCGAGCTTNTACTTNTAAGTCTGAATCCAGTCAGAAATAAGATTTT
TTGNGTAACAAATAAATAAGATCAGAGTCGGTAAAAAAAA

TABLE 1
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Sequence 2187
CCGCGGTGGCGGCCGCCCGGGCAGGTACAAAGACTATTGTAGAGACTATCCGGGTTAGTT
TGCAAGGGAAGCCAATGATGAGTAATTTGAAAGAAATTCACCTGGTGAGCAATGAGGACC
CTACTGTTGCTGCCTTTAAAGCTGCTTCAGAATTCATCCTAGGGAAGAGTGAGCTGGGAC
AAGAAACCACCCCTTCTTTCAATGCAATGGTCGTGAACAACCTGACCCTCCAGATTGTCC
AGGGCCACATTGAATGGCAGACGGCAGATGTAATTGTTAATTCTGTAAACCCACATGATA
TTACAGTTGGACCTGTGGCAAAGTCAATTCTACAACAAGCAGGAGTTGAAATGAAATCGG
AATTTCTTGCCACAAAGGCTAAACAGTTTCAACGGTCCCAGTTGGTACCTCGGCCGCTCT
AGAACTAG
Sequence 2188
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCAGGACAAA
TCTCTCCACTTGGAAGGAGATCCCAATCCTTCTGCAGCCCCAACATCCACCTGCGCACCT
AGGAAAATGCCCAAAAGGATTTCAATATCCAAACAACTGGCTTCAGTGAAAGCTCTGAGG
AAGTGCTCAGATCTGGAAAAAGCTATTGCCACCACTGCTCTGATTTTCAGAAATTCTTCT
GACTCTGATGGTAAACTTGAAAAAGCTATTGCCAAAGATCTGCTGCAAACCCAATTTAGG
AATTTCGCAGAGGGACAAGAAACCAAGCCAAAATACAGAGAGATCCTTTCTGAACTTGAT
GAGCACACAGAAAATAAGCTAGATTTTGAAGACTTCATGATCTTGCTCTTAAGCATCACT
GTCATGTCAGATCTGCTACAAAATATACGGAATGTAAAAATTATGAAATGAACAGTTTTA
AATATGCTGTATAAAATAATGGCAAAAGACAGTGTTATTAAAATGTTTCCATCTCAAAAA
AAAAAAAAAAAAAAA
Sequence 2189
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAAGTTGAAAGTCACA
AAACCATAGAAAAGTCTCAGTTTCCTACTGTAGAATTCTTGGCATTTCAGTAGTCACAGT
TAAACTTGTTCTAGGTTTTTCAGATGCTCTTTTCCAGGACTTCATATGTTTTGATATTTT
TAAAAATTCTTTCTTTCAACTTTTTTGATTATAAGCCTTGCTTGCTTCGATTTGGGATTT
AGGCATCGTTGTCCTTTATTTTCTTTCAGGGCAATAATCACTTCTATTTTGTCACAGTTG
TTACTTGGGTACCTAAAACCCGAAGAACCTTCTGTAAGAAGTGTGGCAAGCATCAGCCTC
ACAAAGTGACACAGTATAAGAAGGGCAAGGATTCTTTGTATGCCCAGGGAAGGAGGCGCT
ATGATCGGAAGCAGAGTGGCTATGGTGGGCAGACAAAGCCAATTTTCCGGAAGAAGGCTA
AAGACCACAAAGAAAGA
Sequence 2190
CCGCGGTGGCGGCCGAGGNACTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTT
TGCNANCACANAGGTCAGCAACAAGTTTATTTTGCAGCTAGCAAGGNAACAGGGTAGGGC
ATGGTTNCATGTTTAGGTCAACTTCCTTTGTCGNGGTTGATTGGTTTGTCTTTATGGGGG
GGGGNGGGNNAGNNGAANTCCAATNTGAATCCCACAGAAACCAGGGGCTGTANAAACANA
ACCTGANAAGAACGAGCACTCAACCNAGCTNACTNNGGTTCANNANAAAAAATNCCAANA
AGGAAAGCCAA
Sequence 2191
CCGCGGTGGCGGCCGAGGTACAAAGATAAGTCATCTCAGTAAAAGGTCTATTATCTAACT
TGCCAAACTTGTTTACTGAGAGCCCTAAGGAACTAAAACTGCCATAATGCCGTGCACAGC
TTGAAAAGCAATTAGAGTAAGCAAGATTAGTTTTTCCTCCCTTCCAGTTCCTCAGCAGGC
CTGGCTGAAGGCCCAGGAGGGANGGANTTTTNANACCCCCTTTAAANNTNNCTTTCGCNT
TAAGAAGAGNCCCCCCGNGGGNGNCNCCCTTTTTTTTTGGAANCNCCCTTTTCCCCGGGA
ATNAGGGTTTTTTTTTTTTTTTNAAAAANTCCCCCCCNNGGGGGGGNCCNNCNNTNTTTTT
TTTTTTTTTTNGAANCCCCCCCCCCCCCNGGTTNNNNCNNTCCTTCTTTNACAAAAAAAA
AAAAAATTNCCNCNCCCCCAAAAAAAAANNNNTTTTTTTTTNTCCCCNNCCCCCNNNTTTT
TANAAAAAAAAAAAAAANTTTTTTTTTTTTTTTTTTTTTTN
Sequence 2192
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCCGAGA
GAAGCAGTAGTCAATAAAGAGAGTGCCGTATTTCGCAGATTGGAGCTGAGCTGTGGCTGC
CAGAAGATAGCGAACGAATGGAAACTGAAAGTGGAAATCAGGAAAAGGTAATGGAAGAAG

TABLE 1

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AAAGCACTGAAAAGAAAAAAGAAGTTGAAAAAAAGAAACGGTCACGAGTAAACAGGTGCT
TGCAGATATTGCTAAGCAAGTGGACTTCTGGTTTGGGGATGCAAATCTTCACAAGGATAG
ATTTCTTCGAGAACAGATAGAAAAATCTAGAGATGGATATGTTGATATATCACTACTTGT
GTCTTTTAACAAAATGAAAAAATTGACTACTGATGGGAAGTTAATTGCCAGAGCATTGAG
AAGTTCAGCTGTTGTAGAGCTTGATTTGGAAGGCACCAGAATCCGGAGGAAAAAACCTCT
GGGGGAAAGACCAAAGGA

Sequence 2193

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTCCATGGGTCCACAA
AATCCTCTTCAGCTTCTGTGGCATCTGGGCCATGATTACTGGTAGGTGCTGGGTTCCCTG
GAGGACAGTCAGCCTTGTAATCCTCCCCCGCGGCAGCTTTGTAGCTCATTTTTATGACAC
CAACATCTTTACTGCAGAATCAATTTCATCCCAGGTTGTGGAAGACACTGCAGAGGTGGC
CACTGGTCACGCTGGGCAGTTGAGCTGCTGAGAGTCCCCCGCGTACTATCTTCACTCTTT
TTTTTTCAGAAGCCAATGTTCTCTAAATCTGCAGCTTCATTCCACAGCTTTACAGAATCA
TAATCTCTTGAATATATTTCCAATGTTATTAAAAAATAAAAAATCATACAAGATATATTT
AGCACATTAAAACTTAAGAGGTTACAGTATAACTGTCCAGACCTCCAGGTACCTGCCCGG
GC

Sequence 2194

GTGGCGGCCGCCCGCCAGGTACATTTTTAAAGAGTTGTTTTTNGGCCGNGCGCAGTGGCT
CATGCCTGTAATCCCAGCACTTNGGGAGGCCGAGGTGGGCGGATCACGAGGTCTGGANTT
TGAGACCATNCTGNCTAACACAGTGAATCCCGTCTCTACTAAAAATACAAAAAATTANCC
AGGCGTGGTGGCTGGCACCTGTAGTCCCAGCTACTTGGGAGGCTGANGCAGGANAATGGC
GTGAACCTGGAAGGAAGAGGTTGCAGTGAGCCAAGATTGCGCCCCTGCACTCCAGCCTGG
GCAACANAGCANGACTCCATCTNANANAAAAAAAAAAAAAANCAANGAGNNGTTTTCTNA
TGTTCATTATAGGGCATTACAGTTACATNGNCCGAAGGTCTTACAACTAATCACTGGGTA
GCAATANATGCTTCNGGCCCACATGATGCTGATTAGTTCNCANTTTTCATNCAGTTGACA
ATATTAACCCCCATTNCTCCCTCCCTGCCCAAGGNTCATAAANTNGTGACTGCCTAACAA
CCAAAATTNGGAAGGCCCANTCTTNATTTTCANTCAGACTTCTTGGAACCTGAAAGATTA
AACNTTTTGGCTAACCCTGGAAATATCTTTTTATCTCACTTATAGCNTTNAAGGCCATTG
NATNAAAACNTGATTTCTTGGAAAGGGCCATACCCATAAANTCAAGGGGGGTTTTTCCTG
AAAAGTAAANGNTTCCAAATNAANNCCAAACANTTTCAACCCCAAAAAAAAAAAAAAA

Sequence 2195

AGGTACACTGAACACCAAGGCTCTCACTCTTGAGTCTAGGGCACCATATATATAAAGGGA
GTTCGGAACTTGTCAAGGCAATCCTATTGTTCGTAGTCAAATCACACTGAAATCCGGAGG
CCTGGTGTGAGAACCTACNAGCGGACACCGGGCATTTAATATTTTTTGCACACCCACACA
GCCAGGGCCAAAGTGGTCAAGGCACTCTCCTAACACAGACAGGATCTTCTGAGTTGCAAT
TCTTTCTGAAGGAACATTTTTCACTTGAAATTCCATCAGAAAATTTCCTGAGATCTTGTG
AGCGCTGAGGTTTCTGGTTTCATCTAGATCCAAAAACATGTCCAAATCACATCCTAACTT
CCCAAAAGTGTTGACTGAGGAGCCAAAGGGTCTGACTATGCAGTCTGGAAAATACCCCGG
CGGCCATGTCTTCAATAAGAGAACAGGTGAGATATCGGAGCTTAAGTGTTCTCCTCTGTT
AGCTGGAACTCCTTCAAGAAGAGTGTTCAAGCTTGATCCGTCTATACTTTCTGCATAACA
AAGTAATTCAAAAAGCTGCTTGTTTGAACCGTGGCAACTGANTACTTGACCCGTACCTTG
CCCCGGGCGGGCCCTNTAAGAACTAGTGGATCCCCCGGC

Sequence 2196

CGCCCGGGCAGGTACAGTGGTCCTTTTCAGAGTTGGACTTCTAGACTCACCTGTTCTCAC
TCCCTGTTTTAATTCAACCCAGCCATGCAATGCCAAATAATAGAATTGCTCCCTACCAGC
TGAACAGGGAGGAGTCTGTGCAGTCTGACACTTGTTGTTGAACATGGCTAAATACAATGG
GTATCGCTGAGACTAAGTTGTAGAAATTAACAAATGTGCTGCTTGGTTAAAATGGCTACA
CTCATCTGACTCATTCTTTATTCTATTTTAGTTGGTTTGTATCTTGCCTAAGGTGCGTAG
TCCAACTCTTGGTATTACCCTCCTAATAGTCATACTAGTAGTCATACTCCCTGGTGTAGT
GTATTCTCTAAAAGCTTTAAATGTCTGCATGCAGCCAGCCATCAAATAGTGAATGGTCTC
TCTTTGGCTGGAATTACCAAAACTCAGAGAAAATGTGTCATNAGGAGGAACATCATAACC

TABLE 1

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CCATGGANGGAAAAAAGCCCCCCAAATGGGTGGGAACTGGATAATAAGCACTNATGCTTT
AAGAATTGGGCACACTTCTCACCTAAGGTGAGCGCATTGNGNCCAGGGGGTGCTTAAATG
CTTACATACCTCCAACTGGAAATGGNTAAGGGAAGAAGATTGATNCCAATTTNAAAAAAA
AATTTAAAANCCCANTTTNAAAAAAAAAA

Sequence 2197

CGCCCGGCAGGTACGCGGGGGTGGAGAGAGGCCTCTAGACTTCAGTTTCAGTTTCCTGGC
TCTGGGCAGCAGCAAGAATTCCTCTGCCCCCCATCCTACCATTCACTGTCTTGCCGGCAG
CCAGCTGAGAGCAATGGGAAATGGGAGTCCCAGCTGTCCTCGGTGCCTGCTCAGAAGCTG
GGTTGGTTTATCCAGGAATACCTGAAGCCCTACGAAGAATGTCAGACACTGATCGACGAG
ATGGTGAACACCATCTGTGACGTCCTGCAGGAACCCGAACAGTTCCCCCTGGTGCAGGGA
GTGGCCATAGGTGGCTCCTATGGACGGAAAACAGTCTTAAGAGGCAACTCCGATGGTACC
T

Sequence 2198

CCGGGCAGGTACCAAAATTGTAAGAAGAAGCTTGGGAAGCTGCCACCTCAGTATGCCCTG
GAGCTCCTGACGGTCTATGCTTGGGAGCGAGGGAGCATGAAAACACATTTCAACACAGCC
CAGGGATTTCGGACGGCTTGGAATTAGTCATAAACTACCAGCAACTCTGCATCTACTGGA
CAAAGTATTATGACTTTAAAAACCCCATTATTGAAAAGTACACAGGAGGCAAAGTGTTTC
ACATTATAGACTTCACTTCCAACTCCTTGGAATGTTCATTTCTTTGGCTTACAGGAGAGA
CTAGACAGGAAGGCCAGGCAATGCTTAGGCAACTAAAATGAGGTTGGGGGTAATGCTAAC
GTCACCCTCACAGGGATGGCCACGGGGACTGTTATTCGCAAGCTGGTTTTCTAGGCCTGT
TAGCTGGAAGCATGGTGAGCACCAATTTCTGGGACGCTCAAGGCCGTGTCGGGGCTTCAA
GTCATCTTCACCACACCANGTACCTTNGGNCGNTTCTANNAACTANTGGGATNCCCCCGG
GCTGTAGGGAAATTTNANTTTNAAGCCTTATTCGATTACCCGTTGANCCTCTGGGGGGGG
GGNC

Sequence 2199

CCGCGGTGGCGGCCCGAGGTACAAGATNGNCATCTCAGTAAAAGGTCTATTATCTAACTN
GCCAAACTTGTTNACTGAGAGCCCTANGGAACTAAAACTGCCATAATGCCGTGCACAGCT
TGAAAAGCAATTAGAGTAAGCANGATTAGTTTTTCCTCCCTTNCAGNCTNAGNAGGCCTG
GCTGAAGGCCCANGANGGAAGGAANTNTANNANCCANCANTAAAAATAGCNATATGCAAT
NNNAAGAATGCCATCCCATGGAGCACACCA

Sequence 2200

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACAATTTTTAGAAT
AGTTGATGTCTTTAAGATGGATATTTTACAATTTCAGTAAAAAAAATACAACATGAAGCT
GCTGCTGTCACAGATCACTGTAGTAAAAAGATATAAATGCAATACCATGTCGTAGAACAA
TATATATATCCTCTGATATTTTACAAACTTTGTACTGTGTCCAACAGCTGAAGGAATTTG
AGGGGAAGACTTTAGTGTCAGTCACCAAAGAAGGCCTGGAACTTCCAGAGGATGAAGAAG
AGAAAAAGAAGCAGGAAGAGAAAAAAACAAAGTTTGAGAACCTCTGCAAAATCATGAAAG
ACATATTGGAGAAAAAAGTTGA

Sequence 2201

GCTCCACCGTTTTGGCNNCCGAGGCCCCTTGTCCTCTTCTTCAGTGACTTAAAACAATTC
CAGGATCAGAAGAGAAGCCATTTTGACATCCTCGATAAAACTGGGGATNNGCTGNANTTC
TGTCTGTTCACGAAGTGGTTGAAAAACAATTTCGAGATCCAGAAGTCTTGATGGGTTCAC
CATCCAGGTGTTCACAAAAAATCAGAGAATCTCTTTCGAGGTGCTGGCCGCCTTCAACGC
TCTGAGTAAGCATTGCTGGGTGTCAGGAGAGAAAAGCCAAAGAAGCGGGTGCCAGACAGC
TCTGTGCAACCTCTAGGCCATGAGTGGGATAGATACCACTGCTGCTTTAAAAAATGGGAG
ACCATAGACCCTCAGGAGAAAAGAATCCCTTCTACCCTGGACTCGCTCTCTTCTCTGGAA
CTAACTTCTCCCCCATACCCTGATTGTCTTTGGAGAAAATGTTCTGGATTCTAGAATCTA
AGGCAGAGCCTTTTAAGCCATACTGTACCTGCCCG

Sequence 2202

AGGTACAGACAGGGTTTCTTCATGTTGGTCAGGCTGGACTCGAACTCCTGGTCTCAACTG
CCTCAGCCTCCCAAAGTGCTGGATTATAGGCATGAGATACCGTGCCTGGCCTCCATCACT

TABLE 1

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GATTCTATGTATGCACATGACTCCTTTTTTACTTTTACTTAGGAGGCTTAAAACACAATT
ATTCATTCAATATAATTATAAAGCAGAGTCTTTGTTAATTTCTGAACTTGGTAAAAACAT
TTTTTATATTTTATCTATAGCTCATTAATTTAGGTATCAAAAATGTGTTTTAGTTTAGGT
AGCCCAAGCTGCCAATTGTTTGATATCATCATCCTCTTCTTCTGCCCTCTGGGAAGATGC
TGCTCGGGATCGAC

Sequence 2203

CCGGGCAGGTACTCCAAAGATTCAGGTTTACTCACGTCATCCAGCAGAGAATGGAAAGTC
AAATTTCCTGAATTGCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACT
GAAGAATGGAGAGAGAATTGAAAAAGTGGAGCATTCAGACTTGTCTTTCAGCAAGGACTG
GTCTTTCTATCTCTTGTACACTGTATGCATCATCAGTCCAAAGTTTTTCAGAGTTCTATG
TGACTGGTTGAGGAAACACTGCTTGAATTTCCCCATAGCCTCTGCAGCGGCATCACTGTC
TATGAACTCTTGAAGAAGCTCTTTGTATTCAGGTATAGATATGTCGGAATTGATGGTCTT
TTCAACCATGTCCTCCAGGAGTTTGCAGCCAGAATCTGCATAGCAGTGCAGGAGGAGGGC
CGCCAGCATGAGGACCATCAGCAGCTTCATGGCGAGGCGGCTGCTGTCTGTGTTCAGTCG
TGTGTGGCAGGGATCAAGGAAGTTGCTGTCCCCGCGTACCTN

Sequence 2204

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGTTGNCAGGATTCAA
GCCGAATGGCTTGCCTNANAGGGNCAATGGCGTTCTGAGATGGTGGCCA

Sequence 2205

ACACTACTATAGGGTGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTTGGTTTAT
CAATGGGACGTTCCAGCAATCCACACAAGAGCTCTTTATCCCCAACATCACTGTGAATAA
TAGCGGATCCTATATGTGCCAAGCCCATAACTCAGCCACTGGCCTCAATAGGACCACAGT
CACGATGATCACAGTCTCTGGAAGTGCTCCTGTCCTCTCAGCTGTGGCCACCGTCGGCAT
CACGATTGGAGTGCTGGCCAGGGTGGCTCTGATATAGCAGCCCTGGTGTATTTTCGATAT
TTCAGGAAGACTGGCAGATTGGACCAGACCCTGAATTCTTCTAGCTCCTNCAATCCCATT
TTATCCCATGGAACNCTTAAAACAANGGGTTGGTTTTGGTTCCTGAAGCCCTTTTTTGCT
GGGGAATGGGGCACCTTAATGGAAAATTTAAAGGGGAAAANCCCTCAGGCCTGNNGGGGG
NGGGGCCCCTTCACAGCCTTTTNCTTAACTNAGAAANCGGGGAAAATTGNAAACCATTGG
GGGAGAAAATGGACNACTTCNCACTNTTGGACNGGTTTTTTTCCAAAANTGTNAAAACAA
GAATTCTTTATTAATGGAAANGGGGTTTTACCCCCCTTTTAAATT

Sequence 2206

CCACTATAGGTTTATGGGAACTCCCCGCGGNGGCCTCACTTTTNACCTTCTGGAANCCGC
CCACCACTTTCAAGCTCACTATTGAATCCACGCCGTTCAATGTCACAGAGGGGAAGGAGG
TGCTTCTACTTGTCCACAATCTGCCCCAGCATCTTTTTGGCTACAGCTGGTACAGCTTTC
TTCGTCCTCCATGCTAAGAGATGTAAAAGCTTAAGGGTCAAACAATACCAATTGTATAGG
CTTCAAAAACCATCTAAGTTAGGGCATTCTNTAGTTTTAGCTAAGATACACCTGGAACAC
TGACAAGTCATCACTTACATAGAATAATGTGAAGTAAATTTTTTGAAAAATAAATTTTAG
TGGAACAATCCTGAAGGATAACACCAGAAGAATAGCAGGTTACCAGTAAGGGGTCAGCCA
ATTTGTTCCAGTCACTTTTGAATCCATGTTCTATAATCTAAAAATTATTCTCTTTCCCTA
AGCTGAGAGCTTCCTATCATGTCAGTATCTATGNTATGAAG

Sequence 2207

GGCGCCGAAAGCGAAGAAGGAAGCTTCAGCCCCTCCAAAAGCTGAAGCCAAAGCGAAGGC
TTTAAAGGCCAAGAAGGCAGNGGNGAAAGGGGNCCACAGCCACAAAAAGAAGAAGANCCG
CACGNCACCCACCNTCCnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnCTNGGGCGGAAAACAANGGCAAAAGCNGGNNCC
CGGGGGGGAAAANGGGNAACCCGNNNCACAAAANCCACNACAACAAACCGAGCCCGGGAG
CAAAAAAGNGGGAAAAGCCCCGGGGGGGGGCCCAAAGGAGGGGAGGCCAACCCCANAATA
AAANGGGGGGGGNGCCCCACNGGCCCCCNTTCCAAACCGGGGNAAAAC

Sequence 2208

GGCGAATTGNNGCTCNTTCGCGGTGGCGGCCGAGGTACTGAGAGAGGTGGTGGACATACT

TABLE 1

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TACAGAGCAACTGCGTGACATTCAGCTGGAGAATTACACACCCAAGGAACCCCTCACCCT
GCAGGCCAGGATGCCTTGTGAGCAGAAAGCTGAAGGACACAGCAGTGGATCTTGGCAGTT
CAGTTTCGGTGGGCAGATCTTCCTCCTCTTTGACTCAGAGAAGAGAATGTGGACAACGGT
TCATCCTGGAGCCAGAAAGATGAAAGAAAAGTGGGAGAATGACAAGGTTGTGGCCATGTC
CTTCATT

Sequence 2209

AAATCCCGCGGCGGCCGNTCTAGAATTAGGGGANCNCNTTTNACCNCAGGNNTTTTGAAC
Cnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnAGGGNAAAGAGGGNNCCNGGGNGAAAA
NGGGGAACCGCGCACAAANCCACACAACAAACCGAGCCGGGAGCAAAAAGGGGAAAGCCC
CGGGGGGCCNAAAGNGGGGNGCNAACCCAAAANAAAANGNGGNGGGGCNNAAAGGGCCCG
GNTTNCCAGGGCNGGGGAAAAACCCGGNCGGGGCCAACNNGGNAAAAAAAAGGAAAANGG
GGNCCAACCCCCCCCNAAAAAAAGGGCCCGGNNNNGGGGGAAAAAGGGGGGGNGGCCNNN
NACCGGGNNANCCCCGGGGNAAAAAAAAANAAANNNNNNGGGGGCCCCGGGGGGGGGNNN
NGNNNGGGGGGGGGANNGGGGGGGGNNNAANGNNNAAANCCNAAAANGGGGGGGGGGAAA
AAGGGGGGGNNNCCNCAAAAAAAAANANGGGGGGGAAAACCCCGGGGGNAAAAAAAAAAG
GGGGGGGAAAAAGGGCCCCCCNAAANGGGGGGGGGAACCCCNAAAAAAGGGGGCNNNNNN
GGGGGGGGGNNNNAAAAAAGGGGNCNNCCCCCCCGGGGGGGGG

Sequence 2210

AANCCCCGNGGGGGCGGCCGNGGNNCCCCCGACGGNNNCAACCCCGNNGTANAAAACCCC
CAGGAACAGAAGAGAAGGGGNCGGGNCAAGNNCGAAANCGNGGGGGAAAAGCAGAAGACC
CGACNGNCCACGAAGNGGCGCGAAAAACAAAANCGAGAACCAGAAGGCCCGGGAGGGGAA
CACCANCCAGGGGNCCACAAAAAAACAGAGAAGCCCNNGCGAGGGGCNGGCCGCCNGCAA
CGCGCNGAGCNNAAAGGAAAACCCCAGCCCCCGGAACCANCGAGAGCNCAAAAGANCCNG
GGAAAANACAAAGGCCAGNCCNGGGGAGAANNGCAGNCCGCANCACNGAACCCCAGCAGA
NAGGGNGNNNGGACAACCGGCCCCGGAAAAANA

Sequence 2211

TACTATAGGGCGAATTGGAGCTCNCCGCGGNGGCGGCCGCCCGGGCAGGGNACTTTTTTT
TTTTTTTTTTTTGGNGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAAAAANAGCCAATTTTTNNAAAN
NNAAANNTNCNNGGNTAAANGGNNNNNGNNAAAAATTTGGGGGGNAAAAGGGNTNNTTTN
ANCCCACTGNGNGGGGCANCCCTTANAANNNGGGGGAANNCCCCNGGNAAAAAANGGGGC
NGGGGNCCCNNNTNNGNANNNTTCCCNGGGGGGGGGCCCCANNAAAANNNNNNNCCCCGG
GGNGGGGGGNNCCCCANTTTNNCCNAAAAANCTANGTCCCCGGGNCCNNNAAAAAAAAGG
GGGC

Sequence 2212

CCGGGCAGGTACCCGGGTGGTTAAACTTCGCAAAATGCCTAGATATTATCCTACTGAAGA
TGTGCCTCGAAAGCTGTTGAGCCACGGCAAAAAACCCTTCAGTCAGCACCGTGATGAAAA
CTTGCGGAGCCAGCATTTACCCCCGGGACCATTCTGATCATCCTCACTTGGACGCCACAA
GGGGCAAGGAGGGTGGTTTTCCTGAAGCAGCTTGGCTAGTTGGNCTTATTTAACTNTGTN
GACCTGGACCCTNTTGGTTCCCTCAATTCNGAGGTTCCCTCTTACCGAAGNAACACACCC
ANGAAAAATTTTGGTCCATTTGCNCACCTTTTCAACCCAAANAATTCGGATNTTCAAGGC
AAATTGTTANAAATAAATCCCCCAAAAAACAATCNTTAACNTGGAATGGCCTTTACTTTT
CA

Sequence 2213

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTNACCGGAAA
TTGTCTTTTATTTTTCTTTGCTGGGGTTCAAGGTCATTTNTTTAATCAAACCTCAGAGTT
GGATATAGAGTCATCAAAAGAAAAANCATTCTTCTTCCTCTCTGTTTCCCTAAAAANAAA
ACAGTCACAGGAGACTTTCCTTTTTTCTTAATTGTTCTCATCTCATCTTTAATTATTGCT
GCTGCTGTTATGTGTTTATGTTTCCCTTTTTTTTTAAGTTTTGAGGGTAGATCGNGTCAC
TGGGCGTAAGANACTGAGAAATCAGGTAGCTTCACTGGCTGGTAGGGGACTTTTGCTTTT

TABLE 1
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GAAACGTCACAGGCTGTCTTCCTTTGGATGTAATGGGACGTCCTGATGACCCA
Sequence 2214
ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTNATTAGGGTTGAAAAGGTAAGTCCTATATTANATACATAGGG
GCTGGTAGTCTTATCCTCTNTATAAATACNCACTTTTTGNCACTGCCCCTTCCCTGCCAT
GCAGAGTCCCCATGGCTGAATCTCCCTATGTCTCCAAGNGNGCGTCACTTGCTGTCCTNT
GGGCTGGGTCCCATGNGCTGNGCCCACAGTCTT
Sequence 2215
CCGGGCAGGTACAATACACTAGAAACCAACATAATGTATTTNTTTAAAACCTGTGTGAAA
AAATAAATGTTCCACCAGTAGGGATAGGGGAAAAGTAACCNAAAGAGAGAANNGGAGAAA
GGGAATGCTGGTTTATCTTTTGTANGATTGTAATTCGAATGNGAGAAATTTTGCAGTATT
TTAGCCACTTATTAAGGGAATTTTTTTTTTTTGTAAAANTGGAAGACCTGANACNTCTGTT
CAAAATGGCTTTTCANTGGAACCCTTGNGTNTTGGAGACCGGTTAGNGAAAAGGCANACA
AAAACCGTGGGTAACCCTGGTGGACCTAAAGGGGCNCTGNGTGCCAAGGGNACCTTGGGG
NAAATTGGTCCATTNGATTANTAGGAATGGGTGGGGGGTTTTTTTCCCCCCCCTTTTTNA
GNAAANTGGTNTTGNGGATTATTTTAAAGNTGGANTTTTAAAAAACACCNTTTTTTTTTA
AACTTCCCGGAAA
Sequence 2216
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATACATTAAATATTTATTAA
TGTTTTGGGAATGTTGTGTATCAGTAATTATACCTAGTAAAAAGAAAGATCCACATCCAA
ATTTTCCAGAAAACCGGGTGGCCAGGTNNGGGNGGAAGAAGAGCATTTTAAAAACCAAAA
CCAAAACAAGGGAAAAGCTAAAAAGGAGTTTNTTCCAAATANTCCTGAATTCATTAGGAG
GGTTGGAATTNACATTTTTTCAGGNCTNTATTCCCCCCAAAGTTGAAATTTTTTAAGGGG
ACCTTGGANAAAGNCTTTATTACCCCCATNTGAAAAACAATGCCTGCCAATGGATTTACC
CTNTTTTTCACGGTTCTTCCAGGGTTCCCAANTNACCGNTTGTCCTGGTNAATCCCTTTT
TGGGCCCTTTTTTTTTTTT
Sequence 2217
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGAGCTGTGTGCATGCT
GAGCAACACCACAGCCATTGCTGAGGCCTGGGCTCGCCTGGACCACAAGTTTGACCTGAT
GTATGCCAAGCGTGCCTTTGTTCACTGGTACGGGAAGGATTCCTGCCAGGGTGATTCTGG
GGGTCCGCTGGTATGTGGAGACCACCTCCGAGGCCTTGTGTCATGGGGTAACATCCCCTG
TGGATCAAAGGAGAAGCCAGGAGTCTACACCAACGTCTGCAGATACACGAACTGGATCCA
AAAAACCATTCAGGCCAAGTGACCCTGACATGTGACATCTACCTCCCGACCTACCACCCC
ACTGGCTGGTTCCAGGAACGTCTCTCACCTAGACCTTGCCTCCCCTCCTCTCCTGCCCAG
CTCTGACCCTGATGCTTAATAAACGCAGCNACGTGGAGGGTCCTGATTCTCCCTTGGGT
Sequence 2218
CCGCGGTGGCGGCCGCCCGGGCAAGGTACTTTTTTTTTTTTTTTTTTTTGGGATGGAGT
CTTGCTCTGTTGCCCAGGCTGGAGTGCAGGGGCGCAATCTTGGCTCACTGCAACCTCTTC
CTTCCAGGTTCACGCCATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGTGCC
AGCCACCACGCCTGGCTAATTTTTTGTATTTTTAGTAGAGACGGGATTTCACTGTGTTAG
CCAGGATGGTCTCAAACTCCAGACCTCNTGATCCGNCCACCTTGGCCTCCAAAAGNGCTG
GGGATTACANGGCATGAGCCANTGGGCCCCGGCCAAAAAANAAANTTTTTTAAAAANGGC
NCCNNGCCCCTTTTAAAAATTGGGGNGNCCCCNNGGGGGNGGGGGAAAATNNAAAAAAAA
TTTNTNNCCCCCCCCC
Sequence 2219
GGCGGCCGAGGTCGGCCCACTGGGACTGAGATACGGCCCAGACTCCTACGGGAGGCACGC
ATGTAAGGAATTTTCCACAATGAGCGAAAGCTTGATGGAGCGACACAGCGTGCAGGATGA
AGTTCTTCGGAATGTAAACTGCTGTTATAAGGGAAAAAAAAAAAAAAAAAAAAAAAAAN
GTACCTGCCCG
Sequence 2220
CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTT

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TTNTNNTTTNTTNTTTTTTTTTTTTTTCCCGGCCATATTCCATTNTTTNANAACTTGAATTG
CNCTGCCATCCACAAAGGCTNGCNCGGTTTTATCCACATTAAAATCAAACTGTNGGAGCN
CCAGGACTATTTCATTATTGCTTTTGTNGGGAACAACTGATCTAACTGCATAAATCTTTT
TCCTTGACATTCACATGAGTNTTGGNGTTTCANCCCTTTTTGCTTTTAAGNGGAANAGGC
NAATTTCNGGAAAANANGGGGGANCCTTTTNCCTTTTTACCCCAAAANTCCCNAANGGNA
AAANCCTTNTTTTTTTTTTTAAANTTTTTTTCCCCCNNNTNCCCAAAAAAANNGNTTTTTT
TTTTTTTTTTTTTNTTGTGNGGGGGGNGGGGNGNGGGNANAAAAANANNCNNNTTTTTTN
NNNNNNTNTTTTTTTTTTANAAAAAAAAAAAAAAAAAAAAAAAAAANNNGGGNGNNNTT
TTTNNNNNANAAAATNNATNNNNNTTTTTTTTTTTTTTTTTT
Sequence 2221
CACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTTTGT
TTTGGCACACTTTTCCTGACAAACAGCCAGTGTTCTCAACACATAAATACTAGTCCACGT
TAACAACAATAGCATATGAGACCGCTCTCCGTAAAGATGCCAGATTGGATGCAAATGGAC
TGGAAATACCTTGGAGGGTTTCACAAAAATAAGACAAAGGGCAAAGGAACTTTGCCAAAG
GAGATGGAGAGCAATTCTTTAAAGTTAGTGGGAGGGAGGAAGCAAAGAGCTCATAAATAC
AAGCCTNTTAAAATGGGACGCATTTGCCTCGCGCCTACTGGGGTGTCTGCAGCTCAGCTT
GGTGCCCCACACAGGACACCG
Sequence 2222
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGAAGTCTCTACTGAGGAAAGC
TATGAGGATACTCTGTTCGTAAGCTCCCGGTGAATTTTGTTCCACAGACTCGGAAGAAAG
GTTGGATAAGAGTTCACTGGAGATTGACAAGTACCTGGAGGAGCCCCTCACCCAAGTGCG
CATCTTAACGGCATTGGTGGAAGCTGGGGTCAGAAAAGAGAAATGACCATTTGGAGGGGC
GGGGCCTCCTAGAAGAACCTTCTTAGACAATGGGGGGAGGATGGGACTTTGTTTTTTCCA
AGAATAAACTTCAACTCCTGT
Sequence 2223
CGAGGTACTTCCCACCACAGTGTTGAAAGGGAGAGCAAAGTCTTATGGATAAACCCTCCT
TTCTTTTGGGGACACATGGCTCTCACTTGAGAAGCTCACCTGTGCTGAATGTCCACATGG
TCACTAAACATGTTATCCTTAAACCCCCGATGCCTGAGTTGAAAGGGCTCTCTCTTATTA
GGTTTTCATGGGAACATGAGGCAGCAAATCTATTGCTAAGACTTTACCAGGCTCAAATCA
TCTGAGGCTGATAGATATTTGACTTGGTAAGACTTAAGTAAGGCTCTGGCTCCCAGGGGC
ATAAGCAACAGTTTCTTGAATGTGCCATCTGAGAAGGGAGACCCAGGTTATGAAGTTTTC
CTTTGAACACATTGGTCTTTTCTCAAAGTTCCTGCCTTGCTAGACTGTTAGCTCTTTGAG
GACAGGGACTATGTCTTATCAATCACTATTATTTTCCTGTTACCTAGCATGGGACAAGTA
CCACCTGCTGGGGATCACTCTCTAGGATCACCCCTCCATCCACAATTTCATCCACAAGCC
AAGAACAAGCCCCTTCATGTTCTCCAGCAGTGCTCGCTTTTCTAC
Sequence 2224
TCACTNTAGGGCGAATTGGAGCTCCCCGNGGTGGCGGCCCGCCCGGGCAGGNACTTTNTT
TTTTTTTTTTTTTTTNCTTTTTTTTTTTTTTTTTTTTTTTTGGCCTTTTTTAATATCTTTA
TTTGACAAAATAAAAGTCAGCAACCTATCTCGATTTCCAATTTTTTGTGGTGTTTGAAAT
TCCAATTGANACCTAAAGCATAGCTCTGGCCTTGGAGAGATTTCCAGGAGAGTCANAGCC
CANAAGGGAGCAGGATCCAGGAGGCCCTCATNTCCCAGCACTCCAGCTGAGCCAGCCGGG
TTATGGAACATCACTGAGCAATTAAAATATTATCAACAGACAAAAAAAGTTTATTGAATA
CAAAACTCAAAGGCATCAACAGTCCTGGGCCCAAGAGATCCATGGCAGGA
Sequence 2225
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGGCTCTTTCAGGTCCCCCT
TCCTCTGCAGACTCAGCCTCCAGGCTGTTTAGCTCTCCCAGATAGCTGCCCCTGCCACGC
AGGCCAGGAGTCTTCACACTCAGGCACCAGGCCTGGTCCAGGAGGAGCTGTGGCACAGTC
GTGGTTCAAGTGTCCACATGCACCTGTTAGTCCCTGAGAGGTGGTGGGAATGGCTGCTTC
ATTCCTCGAGGATGCCCGGGCCCCACCTGGGCTTGTCTTTCTGTTTAGAGGGAAGTGTAA
CATATCTGCCATGAGGAACATAAATTCATGTAAAGCCATTTTCTCTTAAACAAAACAAAA
CTTTCTAAGTACAATTTGTTACAAATAACGCAGACTTCAAAAACAAAAAAATNACAACCC

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AAACAAACCAAAATTTAAATGATCAGAATTGGCAAGCACAAAGAAAACGCCCTNTCCTGA
CTTNTATTGTGGGCAGTTCTGAACGCCCCCAGAAAATTTGTGCCAAAGAGTTTTAGAAAA
NTAAATATTCCAATAAAAGTAAACACTATACNCCACCAAAACAGGC

Sequence 2226

GGCGAATTNGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTT
TTTTTTTTCTAACTTTATATATAATACTTTATTTTATACAATTCAGTATATCATGTTAAC
ATATTTCACTTTTAATTTTATGATATGTGTGACATATTTTTAATTTTATGGATTCAATTA
TACTATCATAATTTTTTTAAAGTTTGTATCTTTCATTAATAAGGAGGTTCCTTATTAATG
GATTTTTTTTCCTGTAGCTTNTGAGAACACATTTTTAGATNCCCGGCTTNTAGTTATACC
TGAAGCTCCACAGTGTANACATGTTTTGGCCAACCTTGTTTTATCGGNGTATGAAATTTG
NGCTAATAGGAGGGATCCAATTGTCATTACATTAGAAAACTAAATGGGAAA

Sequence 2227

CCGGGCAGGTACGCGGGGCCCTTCTAGAGGCAGGCAGAGGGAAGAGAAAGGGTCTGTTGT
TTTTCTCTCCTGTTTCTCGCTCCCTCTCTGCTGATCACAAAGCTGCTGACCGGGTCAGAA
AGTCCTGATGGAAATCCACCAGCGCTGGGCAGGCCCCTCCTCCTCCAGGGAGCTTGTCCT
TGCCTAATTTTTCTTCGTCCTGATGAGAACAAAAAAGAGAGAGAGAAGAAAAGAAAAACC
ACAAACTTCCTTTGAAAACCAGCTTGTAGTCAGGGCCCGGAGCGCATGCCATAGACTCGG
CGACTCAGGAATCCTGAAGACTCTCTGAGCGACCTGGAGCACCTTGGGCTGTGTCCCTGC
CTGCCTTCACCCTCCTCCAGTGCCCCCAGTACTAAGGAATCTTTCTGTTTTGGGGTT

Sequence 2228

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGACACAAGACATCATCTTGAAGGAAGG
ATGGCTTTGGCCAGACCAAGACCAAGACTTGGAGACCTGATTGAGATTTCTCGCTTTGGC
TATGCACACTGGGCCATCTACGTGGGAGATGGCTATGTGGTCCATCTGGCTCCGGCAAGT
GAAATTGCTGGAGCTGGTGCGGCCAGTGTCCTGTCTGCCCTGACCAACAAAGCCATAGTG
AAGAAGGAACTGCTGTCTGTGGTGGCTGGGGGAGACAACTACAGGGTCAATAACAAGCAC
GATGACAGATACACACCACTGCCTTCCAACAAAATCGTCAAGCGGGCAGAGGAGTTGGTG
GGGCAGGGAGTTGCCTTATTC

Sequence 2229

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCCAGGTACTANAAGATATT
GATCCTAGTCAATTAGGCATTGTAGACTGTNATGACCACTTAATAAAAAATTNTGGACCT
GANGCTCACGAGCATCCAG

Sequence 2230

NTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGNGGTACCTGCAGNNCTNNTACACCT
ACCTCTCTNTGGGCTTNTATTTCGACCGNGATGATGTGGCTCTGGAAGGCGTGAGCCACT
TTTTCCGCGAATTGNNCGAGGAGAAGCCGCAGAGGGCTACGAGCAGTNTCCTGAAGATGC
AAAACCAGCAGTGGC

Sequence 2231

TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGTTTCAGAGTTTC
ATAAGACACAGTCTCAACAGGAGTTTTTTTTAATAAATGCTCTATCTCTAGTTCCAGAAAC
TGAATTCCAAGAAGCTACACTGAGGATAATTCAGCTCTGATATTGTGATTACTGTGATGT
TCTTTCATTCATACAGTAAGTATCTGCCCAATACGTAACTACCGAGATCTATTGCTTCCT
ACATAATTAGACAAGCTCCTTACACATATGGGCCCATGCCCGGCACATAGCAGGCACTTA
ACAAGGGGTTGCTTAACTACNGGAAGGAATAATATAATTNGCCTTTCCNTTTTTAACTGN
TTTACCCTTTTTCTATACNTTGNTATATTTTGGAAAACNACATGCTTGCAAAACTAAAAA
TCTAACATGCATTACTAACTTTATAAAAGATCCTTCAGTATTTTTCAAAAAGGGAAAAAA
TNATTAAAACCAATCCCCCAAAT

Sequence 2232

TACTTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCAGAGCTTAAGAGACCCTTCAG
CTTCTCGGTGTAGGTCACCAGTCATGTCACGCTCACAACCCTTTCGCCTCCCTCTAGGTC
AGGCACCGCATCCAAGTTAAGCAACCGACGCCGGCTCCTTGGTGTCCCAACAAGGTCTAG
TAGAAAAGCAACTTTATAATTCGTTTCACAGATTTGATTAAGAGCCAACTGAGTAGTGGG

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CCTTGTGCTAGGGCTCCGAGGGCCCAAGGACCCCATGGAACCAGATTTAGTCGCTGACCT
CTAGGAGCTCACAGGTGAGTGACTCCCCCCGCGTACCTCGGCCGCTCTAGAACTAGGTGG
GATCCCCCGGGGCTGCAGGAATTCCGATATCAAGCTTATCGAATACCCGTCGACCTTCGA
GGGGGGGGCCCCGGTACCCAAGCTTTT
Sequence 2233
CCGGGCAGGTACCGNTGTGTCCGGGTGGGTGGTCAGAATGCCGNGCTCCAGGTGTTCACA
GCTGCTTCGTGGAAGACCATGTGCTCCGATGACTGGAAGGGTCACTACGCAAATGTTGCC
TGTGCCCAACTGNGTTTCCCAAGCTATGTGAGTTCANATAACCTCANAGTGAGCTCGCTG
GAGGGGCAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTG
ACT
Sequence 2234
ATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTGGCACGTCA
CGATGTCTTGAGTTTCATTCACTAGGTGGCAGCCTGCATCGTTCCACTGCAAATGACTGA
AATCCCAAAACACACAATGAGGCTGGCTCAGGTTTGACTCTATCTTGGAAAAAAATAGGA
AAACTTCATTTATGGAATAGTTTTGAATAACCGTGGATATCACAGGTCCATTGACCTGAG
CATTTCCATTTTTGGAAACGGGTAG
Sequence 2235
TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGTCATCACACGTGACAGGATGTCA
ATGACAATCCTCCAGAGTTTACTGCCATGACGTTTTATGGTGAAGTTCCTGAGAACAGGG
TAGACATCATAGTAGCTAATCTAACTGCGACCGATAAGGATCAACCCCATACACCAGCCT
GGAACGCAGTGTACCT
Sequence 2236
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATATGAACCT
GTGCTTTGCAGCAGGCCAACTTGTAAAGCTGTTCTCAACCCACTTTGTCAGGTTGATTAT
CGAGCAAAACTTTGGGCCTGTAATTTTCTGTTTTCAAAGAAATCAGTTTCCTCCAGCTTA
TGGAGGCATATCTGAGGTGAATCAACCTGCCGAATTGATGCCCCAGTTTTCTACAATTGA
GTACGCGGNGACAGCGGNTTCCTTGATCCTTGCCACCCGCG
Sequence 2237
GGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCGGGTACNCNGGGCCCTGTGCTG
TCTGCACCGAGGAGAGCGGCCTGNCGGAAGNGGGCCACCATATCTGGAAACTACAGTCTA
TGNTTNGAAGCGCANAAGGGAATAAACANTTAANGACTCCCCCNGGGACCTGNAGGATGG
NCTTTTCCATGGGGGCCGGAGCNGCAGCTTACAATGNAAAATNACANACTGGNGCTNTTG
GAGAAAACTATANTTGGCATAATTCCCATTAACCACNATGACTTCAAAATTTTAA
Sequence 2238
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCCTGA
AATGGCTTCTGCAGAGATGGACCTATGCCGGGGACAGCACACCTGGACTCAAAAGGCAGG
GATTGGATAGGAAGAGGAATAAAATATAAAAATCAGAGAACTGCTGAAATTCTGTGACCC
CTTTTTAGTTAAAAAAAAAAAAAAAANGAAATAAAAGTACCT
Sequence 2239
GGTACATTTTTAAAGAGGTTGTTTTTTGGCCGGGCGCAGTGGCTCATGCCTGTAATCCCA
GCACTTTGGGAGGCCGAGGTGGGCGGATCACGAGGTCTGGAGTTTGAGACCATCCTGGCT
AACACAGTGAAATCCCGTCTCTACTAAAAATACAAAAAATTAGCCAGGCGTGGTGGCTGG
CACCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCGTGAACCTGGAAGGA
AGAGGTTGCAGTGAGCCAAGATTGCGCCCCTGCACTCCAGCCTGGGCAACAGAGCAAGAC
TCCATCCCAAAAAAAAAAANTTNAAAAAAAANNNNGGTACCTTGCCCGGGGCGGCCGCTC
TANAAACTAAGGNGGGGATCCCCCCGGGCTTGNAAGGGAATTTCNATATTCAAAGCTTTA
TTCGAATNCCGTTCGACCTTCGAGGGGGGGGGG
Sequence 2240
CGGTGGCGGCCGCCCGGGCAGGTACNTGGGGAAGGCGCNNCGTGCGTCAGCTTGACAGCA
GAAGCAGGAGGAGAGCTGGCGGGAAGACATGCACCCCTTGAAGACCCAGAGAGAGGCCGT
CTGTCTACCGCGTAGCAGTTACATCAGACTGAGACACTTCCTGTTTACAGGAGACTATAA

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AATTCCTGCCCCGTGCTCATTTGGGGCTGACGCCATTTTAGACCTCAGCCCATCTGCACC
CAGGCGCTCACTGAAACAGTGTGTTGCTCCACACCGCCTTGTTTTGCTTGNTGGCGCGCT
CTCAGGGTTCCGACCAATCCAAGAGCCTTGCAGAAAGCATTAACGTGCTTTTNTCTTTGG
CAAGAGTTTTTCTTTGCTCTGATCTTGGAGACCATCCCTCTGCCTAGGGGGAAAACATAN
GGGAATACAGA

Sequence 2241
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACCATGTTAAGA
GATAGCAATGCAACCGCAGCCAAGATGTCTTTAGATGTAATGATTGAACTCTACAGAAGG
AACATCTGGAATGATGCAAAAACTGTCAATGTTATCACAACTGCATGTTTCTCTAAGGTC
ACCAAGATATTAGTTGCCGCTTTGACATTCTTTCTTGGGAAAGATGAAGATGAAAAACAG
GACAGTGACTCCGAATCTGAGGATGATGGACCAACAGCAAGAGACCTGCTAGTACCCTCT
CTTCCAGCACCCAGGCCAGTATTGAGATCGATTCTCTCTATGAAGGAATCGACTTCTATA
CCTCCATTACCCGTGCCCGATTTGAAGAACTGAATGCTGACCTGTTTCCGTGGCACCCTG
GACCCAGTAGA

Sequence 2242
TAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGTGGCGTGGGCC
TGCTTTCCCGCCAGTGCCCACTCAAAGTTTCTTACGGCATAGGCCGATGAGGAGCATGAT
CAGGAAGGCCGGGTGATTGTGGCTGAATTTGACTCGTTTGTGCTGGTAACAGCATATGTA
CCCTTGTCCTCTTCTTCAGTGACTTAAAACAATTCCAGGATCAGAAGAGAAGCCAACGTG
ACATCCTCGATAAAACTGGGGATAAGCTGAAGTTCTGTCTGTTCACCGAAGTGGTTGAAA
AACAATTTCGAGATCCAGAAGTCCCTTGATGGGTTCACCATCAGGTGTTCACAAAAA

Sequence 2243
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACCTTCACCTG
CTTTGGAGAAATCCTGAATGTGTCCCCAGAAATGAGACGAGAAGTCTTCTCCTGATCAAA
GGTCTTTTCTTGATTGAAGGGTTCGTGGTTTCACAGGCTTCAAGGAAAGAAGCCATGGAC
CTCAGTGGTGAGTGTTACAGNTCCATTAGAGAAACATGCAGACCCCCCCGCGTACCTN

Sequence 2244
GCCGCCGGGCAGGTACTTTCCCTTCCCTAGAAAAGCNNGACTNGNCGCTAACGGTGAAGG
ACCANGGCAGGCGTCCCTGAGTGGTCTGACACCTTTGAAACGTGAGTGAATAATCAGAGA
GGTGTCCCTGNAATGATAAACACCAAGGAAAGGCTGCCTTCCCAGTCTGNGACCAAGCGC
CAGAGTTTTGGGTCCACGGATAAAACGTGTCTCGTTTGTCTCTACCAGAAAATGAANGGA
ATTTGAAATTAAGAGAAGGGAGAGATTAAAAAAAAAAAAAGAAAAAAAAAAAGTACCTCG
GCCG

Sequence 2245
AGGTACGCTTCGACCCACGCGTCCGAGAAAAGACTATTAATTATTTGTGCCTTTAAAGGT
TAATTATTTCAACCTTAAAAGAATCTTATAAGAACCCATTAATAAAAAAGAATGCAAATA
TATTGCCCAAAAAAATACACAAATTATTGTCTTTCATATAGGGGAGGAAATAAATATGTT
TCATCTGAATTGTCTGAAGTAAGTCATGAATGGAGTCAGGGTAAAAAAAAAAAAAAAAAA
AGTGCGGCCACCTGCCCG

Sequence 2246
CCGGGCAGGTCAAGCTTCGACCCACGCGTCCGCGAATACTGCATACTGTTTAAGGTAGTA
TATAAGTTTATGAGAGAAGTGGAGAGCTTTCTTCCTTGAAAAGTCGGTATTTGTTGAGAT
ACCATTTGCCTCACAGAGAGGTGTTCCCCACTCCCATCCCCATTGCCAGATAATAAATAT
TTTGAGAAAAGTGACCTAAAACAGCTGAAATCTTAGGTGCATCTGTCTGCAGACCTCCTT
AAGCAGGCTGTATCTTACAATTCCCTTACTGCACTGGGTAAGTGTTAACTTAGTTTTTGT
TGTTTGCTCTTTTGCTTTAAATATTCTCCAAATTACACCT

Sequence 2247
AGGTGTACAAGCTTCNACCCACGCGTCCGAAAGATTCTTGGNTGAGCATGGTGGCTCATG
TCTGTCATCTCANCAATTTGGGAGGCAAGGGCAGGAGGATAGTTTGAGCCCATGAGTTTG
AGACCAGCCTGGACAACATAGTGAGACCCCATCTCAGCAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAGTGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTTTGCTCAATANAAGTNTGG

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AATAATTCCAGGTAATTTAAAGCATNTTTTTNAATTGGTGTAAGCTGCTCCATGAAGTCA
NCTNGCTCCTCTAATTGGGATGGTTNTTNATNACACGGCATGTTNTAAGAGTTTGATGAC
AGGANCATNAGTGTNNGGNCCCAGNACCCCCTTCTGNGCGGACTTNTNGGCATCCTCCCT
TCAAANCTCAATNCTTTTNANGGGGCCCTGAGGAAAGTNNTTTATTAAAAGGGNTNTTTG
CAAATTTTTG

Sequence 2248

AGGTCACTTTTTTTTTTTTTTTTTTAAAATAATTCTTTTAATTATTGATGCTTTGAATAAN
AAGTCCATTTTACTAAATTTAGTATAAATTATCGGACGCGTGGGTCGAAGCTTGACCTGC
CCG

Sequence 2249

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCACTGACACGTTTCTCTTGACA
CTGAGATGGTCGCAAACAAAACACCGTTCTTGCCTGGATGAAGCAAGAGTTCACATAAAA
GAGCTTTATAAAATGTCTATGAAGGAGAATTGATAATATCAGAAGAGCTCCAGCACTTCA
ATTGAATATAATCCTCTATTATTCTTTTCTTGATTTAATTTCTGTAGCTCCCGAAAACTT
ACTTCAATCTTGTTGAGCTCAGAATAAACAGATATCTAAAGAAAAGAGTTTCAGAGTAAC
TTTTACCATAATGTCTACATAGAAACAAATCTTCCAAGAGTAAGCTATTTAAGGACAAAT
TTTAAGAATAATTGTAATTCAGGTGATACTTGGGTTTTTGTACAAGCTTCGACCCACGCG
TCCGACCTGCCCG

Sequence 2250

CCGGGCAGGTCAAGCTTCGACCCACGCGTCCGATAATTTATACTAAATTTAGTAAAATGG
ACTTCTTATTCAAAGCATCAATAATTAAAAGAATTATTTTAAAAAAAAAAAAAAAAAAAA
AAAGTGACCT

Sequence 2251

TGAGCTAACTCACATTAATTGCCGTTGCGCTCACNTGCCCGCTTTCCAGACGGGGNAAAC
CTGTCGTGCCAGCCTGCATTAAATGGAATCGGCTNAACGCGCGGGGGGTAGGAGGCGAGTT
ANGCCGTATTGGGCCGCTCTTCCGNTTTCCTCCGCTCACTGGACTTCGCTNGCCGCTTCG
GGTCCGTNTCGGGCTGCGGCCGAGGCGGTTATCAGCTTNACTCAAAAGGCCGGGTAATAC
GGGTTATCCACCAGAAAATCAAGGGGGATAAACGGCAGGGAAAAGAAACATGTGGAGGCA
AAAAGGCCAGCAAAAAGGCCCAGGGAACCCGTAAAAAAGGCCCCGTTGCCTGGGCGGTTT
TTTNCATTAGGCTTCCCGCCCCCCCTGGACGAAGCATTCACAAAAAATCCGACNGCTTCA
AAGTTNAGAAGGTGGGCGAAAACCCCGAACAAGGGACTAATTAAAGGANNCCCAGGGCGT
TTTCCCC

Sequence 2252

AGGTCTTCGACCCACGCGTCCGATTTTACTCTGTGTATTCGTGGTGGTGGGTTATAGTNT
ACCAAGTTGTCCAAAATGGATAATTCATGTGAGATAGGCAAGANCAAGNGTTGTATCCCA
ATACCATTTGGTGAAAAAGTTGAACTTCANAAAGGATAAGTANTTTGCCAAGATCACCTG
NCAACCTGCATAGTCAAATTTGAGATGGAACTCAGCTACTCCAATATCTGTATTTGCAG

Sequence 2253

CCGGGCAGGTTTTTTTTTTTTTTTTTGCAACATTGCCCTTTGATGTCCCCATGAGGGCCA
GGCCCAGGCAGAACCCATCCCATTTTATCCTTAAACTCANAAGGAAATTTGTCTAAATAT
TAAAGGATTAATATGGGAATAAAAAATGAACCTTAAACCCTGCCACTGATACACAAGCTG
TCTCTCTTAGAGTTCAATGAACACTTCAGGAGAGTATTTCCAACAATATTTAGATATTGG
AATATCTAAATATTGTTGATTTAGATAACCACCCTAGATTTCTCACCACCCTAGAACATT
TAGTGGGGAGACATTCTTTTCTCCTTTTTCTGATAACTTGGTCAGAAGTGATTGACTGNG
CAAATGGTATTTNTCCGGACGCGTGGGTCGAAGCTTGACCTnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnGAATnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnATTGCGCGCTTTGGCCG
TAAATCATGGTCATAGCnnnnnnnnnnnnnnnnnnnnnnnnnTCCGCTCACAAAATTTNCA
NCACAACATACCGAGCCCGGGAGCCATAAAAGTGTAAAAG

Sequence 2254

AGGTACATGTGCCANNTTTGTTATATCTTTANCTATATNCNNNNCTACTTGCCCCTGATC

TABLE 1

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ATCTATGNGTAGACAATAATTAGTAAGGTCAAATTTTTCACAAACTCCTCCTTCAGCTGC
TAGCAAGTAATCAAGAGCTAGTCTATTTTGATAGATAGCATTTCTCATCAGAGTCTCTTG
CCAGGCAAGAACAGTCAAGGCTTGAGTGGTNTNNTTANTGNCTGCATTCTAAAACTGCTT
GGCNCCATATGACANNGCCGANCATGTAGATGGGGGTTCGATATCCCCATGAGACATCTT
GTGCCCAAGTGGCAGGTCCATAGTATTGTAAGATTTTTTCAGGGGGCCATTCATCGTCTT
TCCAATCACCTATGGCTATGCTTCATTTTTCACAGGAAGCACAGACTGGGAAGCCCAGAA
GTTTACCTGTTTTTATGGNCCCCTAAAAAAAAAANANGGTTCNATGGGTGCCAAATTTAC
ACAGNTTACCTGGCCCACTTGATTNAGGGAANNTTTTNANNCATTAAGNNCCGAANCCCN
NNGGGNATCAAAAAGNTTTGGCCCCTGGCCCGGNNNGGGCCCGGCCCNCC

Sequence 2255

ACCTGCCCGGGTGGCCGCTCGAGGCCGCCCGGGCAGGTTTTATTTAACATTCAAACTTCA
TTAAGACATGTGCAATATGGCAATTTTACTGGGGATTAAACCCTACCTAGGATTGCTTGC
TGGGGCTTAGCAACAGGGTCCAGTTCACACTTAGCACTAATTAAATACTTTATTGAATAA
ATACAATACCAAACAAAATGCATTCAAATGCCGGACGCGTGGGTCGACTCAAGCTAGGTC
GGACGCGTACCT

Sequence 2256

ACTTTTTTTTTTTTTTTTTTTTTTTAAAAATTCAAAAAATTAGTTTATTAGCTTAATATAA
TTAGGTCAATGGAATCCTGTTTTGATCTCAATACTTCCCATATTGCAATATATAAATGTG
ACAAATTCAGCTGTTTTGCGGCATAGATAAGTGTCTAAGCTGGGCAGTTAGTCTACCCGT
TTATAGTTCATGTTCTTCATGGCTTTGCAGCATTTGTCACTTTCTATGATGTGTTCAAAG
ACCAGAAAAGGCCACACTTGACCTGTCAGCTGGTCCTTGAACAGCTGTAGGTTTTTTTTT
TTTTGAGACAGAGTCTCCCTNTGTTGNCCAGGCTGGAGTGCANTANCGCAACCTCGACTN
ACTGNAACCTCTGCCTCCAGGTTCAAGNGATTCTNCTCCTCANACTCCTGAGTAGCTGGG
ATTACAGGCCCATGCCACCATGCCCGGCTGATTTTTATATTTTTAGTAGAGATGGGGNTT
CACCATGTTGGCCAGGCTGGTNTTGAAAACCCTCGGCCGNTTCTANAAACTAGTGGGATC
CCCCCGGGCTTGCAAGGGAAATTTCCNATTNTTCAAAAGCNTTAATCGGATACCCCGTCC
AACCNTNNGANGGGGGGGGGGCCCCGGGANCCCCCAGCTTTTTGGTT

Sequence 2257

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCAGGACCTCAGATTAAAAATAT
TGCTGAGGTCAGACGCCACAATTTTCATGACTTTCTTCAGAAGTAGCACATTTTCGTGAC
TTCCGCTGTCCTCTGAAAAACAAAGTTATTTGGAACATGTTCATGCAAAAGTGATTCTGA
CCAAGTCTAAATCGAGCTTTTCTACTGACATGAAACTGNTGGAAAACTGATCTTATTTTA
TAAGAAAGTGTTTTCCCCTNAGGGGGGGNNGTGTGNTTTCNGAACANCCCNCNNATTATT
TTTTCCCCCGGNNCCNTATAAAATATTGGGGTCCCCCCCCCNNNCGGGGGGGNNGGGGNAT
TTTAAAAATTNTTTTTTTTNNTCCCCCCCCCNCTGGGGGG

Sequence 2258

GGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTGTACAAAGCTTCGACCCACGCGTCC
GAGCAGAACTTGGCAGCAACAGAGGAAGGGCCCCTGGAGCCGGCTGTCGTGGATGCCTTT
AATCAAGCCTGGCATTTGGTTGCTCACGAATGTCCCAACTACTTCCGCTAGGCCCATCAT
GGCTCAGGCTGCCCAAGGCTTTTCTGTCACCTNTTTTGTTCTCTCACACTGACCAAGTCT
TACCTGCCCG

Sequence 2259

CGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTCTTCGACCCACGCGTCCGTA
GTAATAGGAATTAACTGACCCCTTTNGGATGGGGGAGAGCATCAGGCTGGGGTCAGGTAA
GTGTAAATGGCCTTCTGAGCATGCTCTTCTAGGCTGACTCC

Sequence 2260

CCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATTAGTTATCAATTCATGGGCTATGGCCA
CTGGTTTGCTGGATGGTCAGGGACTTGGAAGGAACATGACTGGAAAATTGGTGACAAAAC
GGTCTGTGGAAGAGGTATATACACAGATCTTTCTGAATGGGTGAAAAATGTGAGGATATT
TGTGTCTCATATGAATGCCCCCAAAGAATGACTTCAGCAGAAGAGGATTTTAATAACCAA
GTAGATAGGATGACCTGTTCAGCCCCTTTCTCCAACCATGCAGGTAACTGCCCAATGAGC

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TCATGAATAAAGTGGCCATGGTGGCAGGGGTTGTTCGGACGCCGTGGTT
Sequence 2261
TGGCGAATTGGACTCCCCGCTGTGGCGGGGNGNCGGNCGNCNGAGTAAGACTTCGTCTCA
AAAAAAACAAAAACAAAAACAAAAACAAAGAAGTTAGCCTGGTTGGGCATGGTGGCTCAT
ATCTGTAATCCTAGCACTTTGGGAGGCCCACTGGGGATCATTTGAGGCCAAGAAATTTTG
AGACCGAAGCCTGGGCAACGTTAGTTGAACCCTCATCTNTTACCCAAAAAAAAAAAAAAA
AAAAAAAAAGTTGCCGNGCCCGCTTCTTANTAAACTAAGTTGGATTCCCCCCCGGGGCCT
GGCAGGGGAAAATTTCGAATATTCAAAGGCTTTATTCTGAATACCCCGTTCNGACCCTTC
GNAGGGGGGGGG
Sequence 2262
AGGTGGACTTGATTCATAACCAACCAACCCAGGCTGTCATGCTAAAAAAAAGGGCAGAAT
CTTTGCTGCTGAACTACTNGCATAGGGTTGACTACCATTGNTCCTTTAGTNTTAGTTTGG
GCTAGCAAAAAGGTGNGTCCTTTGCCATGTAAATAAAAGCCNTNTCNNGGTAATNAAAAN
GGTNTNTNTTTTTAACTT
Sequence 2263
CGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTCCCAAAGTGCTGGAATCACAGGAAT
GAGCCACCACACCCAGCCAAATTGGGCACAAATTTAAAATTTGACTTTTATTAATGATAT
GGTAAAGAGATCTAGCTTGGTCATGACACCCTTGTGTTATACGGTGACAGGCAAATCATT
TAAAAATATCTAAACTATAATTTNCTGTAGTTCACATGAATTGGATATTCTTGAAGCGGA
CGCGTG
Sequence 2264
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTTTTGGGGGGGAGAGACACAG
ATTTTTACACTAATATATGGACCTAGCTTGAGGCAATTTTAATCCCCTGCACTAGGCAGG
TAATAATAAAGGTTGAGTTTTCCAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCACCTGCC
CGGGCGGCCGGCCGCCCGGGCAGGTNTCGGGCCCGAGAAGACCTCCTTTTTC
Sequence 2265
AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGTCCGAGCTAACGAATGCTNGACT
AACTAGATNCCAAAGCTTGCTCTGTGAAAATTCCCGNATAACCNNTGAAGTGGGCGACAC
CNTAACCCTGCACACCTTACTCCTGGTNTCAGAGAGCCCAGTNTGAACATAAACTGNGTA
GAGGTGTTAGACTCANCCTACCCTAGTAANGCCCAACCTCCGAGACCAACCTTAAACATC
AGTAGACTGCGAGCTGTATGTGGATAGGAGCAGTTTNGNCAACCCCTGCNAAGTGACTCT
GAAAAAGAC
Sequence 2266
CCGGGCAGGTCTTGAGTCGACCCACGCGTCCGCCTAGCAAAGCTGTTTCCACTGAATGCA
TCTAAGCANNGATGGANCTATGCCAAAACCACCACAGGNGTTTCACTTNAATGATACCNC
GAAACAAGG
Sequence 2267
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATATGCTACAGGGAAGA
AAACGTTCCAAAAACAAGAAAAAGTTGGAAAAGGCAATGAAAGTGCTCAAGAAACAGAAA
AAAAAAAAAAAAAAAAAAAGTGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTTTCAATN
TTATTTATCAAAATAAATTTATTAAAAGTTTTCAAAGACCNCTTTAAAGTGTANCTGCCT
TNAANACAGATTTTTGGNACTCNTAACGGACACTGCAGTTTTNAACNCCATAGCACTCAT
TNTATTTCACACATCATTTTTAAC
Sequence 2268
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAGGTATGTAATCCAGG
AAGTGACCAGCCTGATGCGTGTTATGACTCACTGNAAGCCTCCCATGATTAAGGAC
Sequence 2269
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCTTGAGTCGACCCAC
GCGTCCGCCGGAGAnnnnnnnnnnnnnnnnnnnnnnnnTGATCTAGATCACGAGCAGCCG
CACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGACGAATTCAGGAGTCCTTTATTAGCCGG
CAGCCGANAGACAGCTAGCGCTCAAAATTNTNTTGGCCCCGAAGAAGGAGCTAGATTTTC

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TTTTATACTTTGGTTTAAACAGGGGAGAGGGGGAGTNTAGTTGAAACAATNTTACAGAAG
TAAAGTAGGCAAAAAGTTAAAAGGATAAACGGTTACAGGAAAGTAAACAGTTCCAGGNGC
AGAGGCTTTAAGTNTATCCTAAGGNGATGGACCCCGGGCTTTGGGC

Sequence 2270

AATTGGAGCTCCCCGCGGTGGCGGNCGAGGTCAAGCTTCGACCCACGCGTCCGGTTTGTT
TTTTTCTTACGGCAACTCAAAGCAAAGAGCTGGAGGAGCCAGNCATTATAATTGCTTACT
CTCATCGCTTAGCGCCCCAGGTGGGATGTGTTTCCAAAACACATTTTTGTNTTTATAAGG
AAATGTAGTTAGGATTAATTTTATTGTCCTAATTAGAACTCACATTTTGGTTAAATCCTC
AATTTCATTAAAAAAAAAAAAAAAAAAAAANGGN

Sequence 2271

CNCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCTTGAGTC
GACCCACGCGTCCGGTGATATGTCACAATGCCGTGTAGCCAGAGCCTAGACAAAAGTTAC
AGCACCTGGGAGATCAGTGCAGAGATATGTCACAATGTCCCCAGTAGGCAGAGACCAGGC
AACAGTTGGATCACCTCGGGATCAGTGCAGAGACATGTCTCAATCCCCCTGTGGGCACAG
CCTAGACAAGAGTTAAATCACCTCGGTTAACAGTGCAGAGATATGTCAATATTCCCCTGT
AGGCCGAGCCTACACAAGTGTTACATCACTAAGGTGATCAACGCATAGATATGTCAAAAT
ATTGCCGTGAAAGCAGAGTCTAGACAAGAGTTACATCACCTGGGCGATCAGTGCAGAGGT
ATGTGACAAGGCCCCTTTAAGCAGAGCCTAGACAATAGTTACATCACCTGAGTGATCAGT
GCAGAGGTCTGTCACAATGCCCCTTTAGGCAAGAGCTTAAACACCTCGGC

Sequence 2272

AGGTACTTGACCCCACAGCCATCTGGGATGAGCCGCTTTTCAGCCACCATGTCTTCAAAT
TCATCAGCATNGAACNNGGTGAAGCCCCACTTNTTTGAGATGNTGGATCTTCTGGCCGGC
CAAGGAAACTTGAACTTGGCCCTGCNGCAGGGCCTCAATCACATTGCTCCTTTGTTTCTT
GCAAGCTTTTGGGTTGCCGGGATTGGGGACATNGATAAACTTGGGCCAAATTGTGAAACC
CTGGGCCACAAGTGCCCTGGGGGNGCCTTTCCAAAAAGGGCCACCCTCCGCCATGCNCTG
TTNTGGGAAGNCCTTGTTCAAGCCCCCCAANCNACAGGGGAACCAAACCAATTCNTTNGT
TTGGAATGGCCGGGAATTGAACCGTGGNAAAGGGGGGGTTGGGGAAGCCCCGCCACCCCC
NGGNATAATGGGGAAAGCCAATCTTTTGCCAACAAACTTTTTTTAACCAATGTTACCCTT
GCCCGGGGCCGGGTCCGCTTCTAAGAAACCTAGGTGGGGGATCCCCCCCGGGGGCCTGGC
GAGGGGAAATTTTCGAATTATTCNAAAGCTTTAATTCTGAATACCCGTCCGGACCCTANG
AGGGGG

Sequence 2273

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTAGCTTGAGTCGACCCACGC
GTCCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAGGGGNGGCCGGCCGCCCGGGCGGGTCCCNTCANANANAAGG
GGGNGGGNGCTAATCCAGTACCAAACNTTC

Sequence 2274

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATTTCTACTGT
AGAGGAAAATATATGACAATTATCACTGTCACTGCCTGACATACAAAAATGGAACAGAAC
AGTGGGGTAATGAAGGGAGGGGAGGGAAAGGGAAGAGCAGGAGAGAGAGGAGTTGGAGGA
GAGGGGAAACAAAGGGAAAAGGGTCTATTAAACAGAGGCCTAGAGAAGCTAAAATTTGGA
AATGGCAAATCTGAGAAGAGCCTGAATAAAAAGTGGGGGTGAGGCCATGCACAGTGGCTC
ACGCCTATAATCTCAGCACTTTGGGAGGCCGAGGCAGGTGGATCACCTGAGATCAGGAGT
TCGAGACCAGCCTGGCCAACATGGCAAAACACCT

Sequence 2275

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCG
TCCGAAAAATGGGAGACAATTTCACATGGACTTTGGAAAATATTTTTTTCCTTTGCATTC
ATCTCTCAAACTTAGTTTTTATCTTTGACCAACCGAACATGACCAAAAACCAAAAGTGCA
TTCAACCTTACCAAAAAAAAAAAAAAAAAGACCTGCCCG

Sequence 2276

CCGCGGTGGCGGCCGCCCGGGCAGGTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTAG

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AGGGATGAACCACCATGCCCAGGTAATTTTTTAATTTTTAGTAAAGGTCGGGTCTCACTA
TCTTTCCCTGCTCAGCTGGTCTGGAACTCCTGGGTTCAAGTGATCTTCCCACCTCAGCCT
CCCAAAGTGCTGGGATTAAAGAAGTAAACTACCACACTCAGCCACACATAGGTAATTTAA
AATATTTCCATAGTCACAATTAAAAACACATATAAATAGGTAAAATTAATAACATTTTAT
TTAACCCAATATATTAAAATATTTCCACTTTAAAAAGAGACCTCGGCCGCTCTAGAACTA
GTGGGATCCCCCGGGCTGCAGGGAATTCGATATCAAAGCT

Sequence 2277

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTATTCGACCCACGCGTCCGTAG
TTTTTATCTTTGACCAACCGAACATGACCAAAAACCAAAAGTGCATTCAACCTTACCAAA
AAAAAAAAAAAAAAAAAANGT

Sequence 2278

GNACCCAGTAATCACATAAAGGTNTGCAGGTCATGNTGTTTATTTAGCTTAACTGTTTTT
TTTTTATTTGTTGAAGGGGGTNGGTGTTATTTCAGNCTTTTTCTTATTGGGTTGACCAGA
CTTGGTAAAATCTGTAAGAAAGTTCCATAAATTATTGGGGGGGAAGGNATTTCCTCTGAA
ATTGGGCTAAAATTCCTTGTAGCTGAAAAAAAAAANAACAAAAAAACAATAAAATANGGN
GGCCGGGCCCGCTTCTAAGAAAACTAGGNGGGGGATCCCCCGGGGGCCTGCAGGGGAATT
CCGNATATCAAAGCCTTATCGGATTACCCGNCGNACCTCGGAAGGGGGGGGGGGGCCCC
GGGGTACCCAAGCTTTTTGGTTTCCCTTTTAAGTGGAAGGGGGTTAAATTTGCCGCCGCT
TGGGGCCGTAAAATCAATGGGTCATAAGGCTGGTNTTCCCTGGTGGNNGAAAAATTTGGT
TAATCCCGCTTCAACAAATTTCCCACCACCAACCANTACCGAAGCCCGGGGAAGCCATAA
AAAGGTGGTNAAAAGCCCTGGG

Sequence 2279

NGGNGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAAAAAAAAAAAAA
ACAAAAAAAAAACCACTTCAACTAATTCATCTGACAATGCTGTTCATATTCATGACGCCAT
TTTTTTGTTTGTTGTTGTTGTTTTCCTAATAATAAAGAAGGAGACTTAGGGCTGTTG
GGCTGATATATGTTTGGGGGTCCCACCTCCCCGCCTCATCCGTACCTCGGCCGACCAGTG
CAAATATCTACCCAGTTAGAAGAGTAAATACCATCTTAGTGTTATTATCAAAATATTNTG
AACTCATGAACCTCCTCAGACTGTTGCTGGGGACTCCCAGATATCAATACTCTGAGAACC
ACTGATCTAATGTTTCTTTAGTCAGTTTCTATTTGTTCTCTAGTATAACCAAGCATAAAA
GTAAT

Sequence 2280

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCTCAG
GGCACAAAGTGATCATTTGGGATCCTAAGTTAAAAAGGAAATGCAAGAGTAGGATACTCC
AATTCCAGAGTCTTTGCAGGAGGCTAATCCCACAAGAAGGGTAGCATCAGAGAAAGTGGC
ATTGGTCTTAGTGGTGGATCATCAGGTAGACAAGTGATAGTGTGTGTAACCCATCTGAAA
TTCATTTTACCGTCACCACTCTTACAAAGGACAGTTTATTCCCAAGGACAGTGCTGACGG
GGAGGGGGACAGGCAGGGAGTTAGGAGGGTTTTCGAGGATTTCAAACAGGTGGAACCCAT
CCATCCCTATTCCCAAGGGCCACTTACAACTCTAAGGGGTGGTTACAGGATTAACTACCA
GTTCATTTTCAAAATGCTGCTTTGAACTCAGAGGGTTGATACTTTTAATTTGTAATTTTT
TGTAAAACTTTTTACAAAATAGT

Sequence 2281

CCGGGCAGGTTACAAGCTTCGACCCACGCGTCCGGTCATTATTACCCTCACTGTCAACCC
AACACAGGCATGCTCATAAGGAAAGGTTAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCTCG
AGCGGCCGCCCGGGCAGGTACAAAAAAAACCTTACATAAATTAAGAATGAATACATTTAC
AGGCGTAAATGCAAACCGCTTCCAACTCAAAGCAAGTAACAGCCCACGGTGTTCTGGCCA
AAGACATCAGCTAAGAAAGGAAACTGGGTCCTACGGCTTGGACTTTCCAACCCTGACAGA
CCCGCAAGACAAAACAACTGGTTCTTGCCAGCCTCTAGAGAAATCCCAGAACACTCAGCC
CTGACACGTTAATAC

Sequence 2282

GCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTCAAGCTTCTACCCACAGCGTCCGTTT
ATGTTCAGCAATAAAGGTTCTATCCGTAAAAAAAAAAAAAAAAAAAAGNGCGGCCGGCCGC

TABLE 1
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CCGGGCAGGTACTATGACTAGACACATGATGCATGGCTAAAAAGCTCTTCTGGATAACTC
CTTAGNGAAGGNCTAACNNCCCCACCACCATCAACCTACAGCCCTGCCTTTTTTTTTTTT
TTAANAAGTCTGTCACCACAATNTTGTCTGGNGCTNGATTTCAAATAATACATTTNTAGA
ACCTGCCCGGGCACACGCCCNATAACGANTGGTTTTNNNTTATATCAATTAACGTTAAA
Sequence 2283
CCGCGGTGGCGGCCGAGGTACTCCAGCCTGGGCGACAGAGCAAGGCTCAGTCTCAAAAAA
AAAAAAAAAAAAAAGGAGAGGAATAGTAAATTTATAGTGGAGAAATCTGCAGTCACTAAC
TTAACCAAATAACCACATGGATGTATCCCTTATTAAAGGTAATCGAAAGGGCACAGCGTT
ACTTCTGTGGAATTCTTGCCCAAAATGCATAATCTCAATCAAATCATAAGAAAACATCAA
AATTGAGAGGCATTCTACAAAACCAATAATTAACCAATATTCATCAAAAGTGTCAAGGTC
ATAAAAGACAAGATGTTTATAGAAATACATTAATTTTGGTTTCTACTTAAATTTTATTTT
TTAAAATAATTGTTTTAGAGATGTGGCCTTGTTAGTTGGCCA
Sequence 2284
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGGGATTTTTTTTTTTGTTTTT
TTCTTTTTTTTTTGGTTTGTTTTAAATCAGTGCATAAATTTTTCTTTTCTCATTTCAGCA
GATGGACAAACAGATGGACTCTACAGCTAAGTGGAATATCAAAGGTAGAGGGGTGATTCT
GTGAGACTGATAGGCCTGACTATTCTCAATTCTCCCCACTGCAGTGTTCACGCGGACGCG
TGGGTCGAANACCTGCCCG
Sequence 2285
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCGCGTCGTAACAGTG
TAACATGTATTATGGTAACTTCTAATCTTGTGGCCTTAGACAGTCTAGTCCAAAGGCATA
AAGAAAGTNTGCTTTAAAAAAAAAAAAAGGAATGGTTATCTTCAAAAAAAAAAAAAAAAA
AAAAAAGT
Sequence 2286
TAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGACTCATATAGGGATCTAGA
TCACGAGCGGNCGGCCGCCCGGGCAGGTCTCCCATCTTGCGCAAGTTGGTCACGTGGTCA
CCCAATTCTTTGATGGCTTTCACCTGCTCATTCAGGTAATGTGTCTCAATGAAGTCACCG
GACGCGTGGGTCGAAGACCT
Sequence 2287
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGTTAAAGGAATAATCTGCAGAACATCTTGAT
TTACAAGGGACAAAATGATGCAAATTATATGCTGTCCAACCTACTGGTGAACTGGATCAG
AATGGTCCAAGGACTGTTAAACAGAGGAAGTATTTACATTTTGAAAACTTGCGGACGCGT
GGGTCGAAGCTTGTACACCT
Sequence 2288
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCTGGTACATAAAANAATTTN
TTNGTCTTTAAATNGATACNAATGTCTATCANCTTTAATCAAGTTGTAACTTATATTGAA
GACANTTNGATACATAATAAAAAATTATGACAATGTCCTGGAAAAAAAAAAAAAAANAGT
GCGGCCGACCT
Sequence 2289
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATACTTGTCATTG
CGTAGACTTCTTATCAAAATTTCACATTNATCTGTAGGAAAATGTAAAGTTGGTAAAAAT
TGTTTACACAAATCACACATTTTCCATCCTTGACAATTGCAGNGTTTTTTTTTAAATATT
GCTGTATTAAGACAATTTTAACTGAAGTAGGTTGTAGAGGCTANAAACCTGATTAATAGA
GCAGTATTAGACAATTCTAACTGAAGTAGGTTGCAGAGGCTAGAAGAAACCTGATTAATA
CGGACGCGTGACCT
Sequence 2290
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAAGCTTCGACCCACGCGTGCG
AGTCAGGGAAGGTTTGTTTATGTTACATTTATTTCACCAGAACTATTTTAATATATCAAA
GGGGTTTACTATGCCAAACAAAATTCTAGGGAAAAATACTGCTAAAAATGGATGCCTCAT
CAGAACATGCTGTTGAGTCCAATGTGCCATAAGACATTTTAGCATGTTAAATAGCACTTT
TAATAGCAAAAAAAGGCACATCAACTGCGAAGTTATCCTTAGTTTGCAAATGCTTTTTCT

TABLE 1

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AGATTAATGATTTTTCAATCATTAGGGTACCTGCCCG

Sequence 2291

CGCTACCTGCCCGGGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTTTTCAAGTTTTATGA
TTTATTTAACTTGTGGAACAAAAATCGGACGCGTGGGTCGGACGCGTGGGTCGAAGCTAC
CT

Sequence 2292

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTACCTCCAAGCAGGATGATGGG
CTAGACATGGAGCATACATAAACGGGCAAGATTCAGTCCCTGACCGCAAGGCACTTACAG
TCTAGTTGGGAAGGGAGACACAAATGTACCT

Sequence 2293

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAGAGACTCCAGGAAAAATCAAAAATTTGTTT
TTGCAATTAGCCGAGCACGTAGCCCAGTCTCTAAATGTCACTTCATATTATGTTTGTAAA
ACAACTGTAATAAGAGATCAATGGCCATAAGAAGCCTGAGAATTAGTGCCTACAGACCCA
GTTCCTGATGAATTCTCAGCCCAAAAGAATCACCCTGATCATTTCTAGGTTCTAAAAGTT
TCAATTATTGGACAATATTGCATAGCTAGAAAAAAAAAAAAAAAAAAAAGTGCGGCCTCGA
GCGGCCGCCCGGGCAGGTACTTTGAGCAGGATAATAACATAAATTTCATTTAAAAAGTTG
TATTTATAGCCCCAGTAACCGGAAAGAATTATAAGTAATTATGGAAGTATTATATTCTGA
CCATACCAAGAGTTAAAAACAAAGAGTTCCTACTAAAGAGGAATATTTTCAAGATGATCT
GGTCCATCATGTGCATAGTTAAAGAATGGTTGGTTTAATAAAGATTCTTTTGCAAATAAA
GAAT

Sequence 2294

AGGTACAAGCTTCGACCCACGCGTCCGATGAACAACTGGCTGCTCTGTCCCAGGGTCCAA
TATCCAAGCCCAAGAGGAAAAGAGAGAAAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGG
CCGCCCGGGCAGGTACAGATAAATATAGGAAACTACTTCAGATTATTGGACAAATAAGAA
TTTCAGTGTGTCACTACCTATAATTAAGTAGCAGCACACCACAACCACAGCAAGTAAACA
CTAATCTCCTCTACTGCCTTTTTGGGGTCTTTTCCAGTCACAGGAGCTAATTTACAGGGA
TACCACTGGGTTTCAACCAATCTCTGAAAGTTCCTTTATTATGAGTTTTGAAATTTAACT
AGTGCATCACCTACAATTCTGTTGGCTAGTTTTTTTCTTACTCTTCACTAATTAAGTTTT
AATACAATATGTAATGGTTTCAAAATTTTT

Sequence 2295

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGAAA
CTTTAATTTTTAGGAATAACATATTGACTTACTGAACTGAAGCATTCTGAGTTGAAAGGA
GCCCCAGAGGAAAGGAGTTCTGTGTTGCTCACATGTTAAAAGCTTGCTCACCTTCAGAGC
AGAGGGAATACCTATCTTCAGATATCCGCCCATTTTCATCTCTTCATTATAGTCAAACAG
TGTGACTTGAGAGTGTTGCTCTGGTGTCTGTATTCTGGCTTATGAAGATTATTTGAAAAA
GAACTCTTACTACATTGAAATGCAGACTTTTAAAAATTTAAATATTGGATTAGGCAGTCA
AAAAACCAAACAAGCATAAAAGGTCAGTAAGTTGTAATCTTAAAAGTAAAGGTGGAAAAC
TCATTATAAATGGAAGAAAAGTTTTGATTTCCTTTTTTGTTTGATGGGCAGTATGCCATA
TTATATCCAAAGTTGGTTTAAAAAATACTTCCATCAACTATTTTTATTTAAAATAAACAT
TT

Sequence 2296

CCGCGGTGGCGGCCGAGGTATACTTTGCACCTTGAAAATATAAAATAAAATAAATTTAAA
AATAAAGGTAATTTTGTTCTTCCATGTCAGCTGAAAATAAGTGAAGACTGGGTCAGTAAT
AACATTGCTTTGCTGAATTCAGAGAATTCTAATAAAATATTTTTAGTTGGGAAGCTATCT
GTATTAAAAAAAATGATCTAAGGCTGGTAACAGTGGCCATACTTATAATCCCAGTGCTTT
GGGAGGCCAAGGCAGAAAAATCACTTGAGGCCAGGAGTTTGAGATCAGCCTGGGCAACAT
AGTAAGACCTTATCTCTACCCGGACGCGTGGGTCGACTCAAGACCTGCCCGGGCGGCCGG
CCGCACTTTTTTTTTTTTTTTTTTTTTAAGCTGCTCCTTGAGGATAAGGGCTAACTCACAG
GCAGTGCACCAAGAGCCACTATAAAAAGATCCTTAATGAGCAAAATATATCC

Sequence 2297

CCGCGGTGGCGGCCGCCCGGGCAGGTCAAGTCGACCCACGCGTCCGCTTGTTTTGCTCTA

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TCCCATAGGAGTTGGTATGTTGTGTTTCCAATATCATTTACTAAAAGAAATTTTCCTTTT
TATTTCTTCATTGACCAACTGGTCATTTGCATGTTCTTTAATTACTATGTGTTTGTATAG
TTTTCAAAATTTCTCTTATTAATTTCTAGGTTTTCCTGTGGTCAGAGAAGATGCTTGATA
CTACTTTAATTTTTTGAATGTTTTAATACTTGTTTTGTGACCTAACATATGATCTACCCT
TGAGAATTATCTATATGCTGAGGAAAATAATGTGTATTACACAGCCATTGGATGAAATAT
TCTGTAACTATCTCTTAGGTACCT
Sequence 2298
GAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGCTTTATTTATTTCTTTTAGGAAT
TGCAGGTTCCTAACAAAGTAGGGGTGAGGGGGGTGTTACAAACCAGTCACTAGGCAGGAA
CATTAGACTCCAAAAGCAGAGAAATGCTTAATTTTTCTTCTACCTGTTTCACCACATTCA
TGTAGAACTGTAGTAAAAAAGATGGTGAATCAGGCTGAATCAATCTAAATAACAACTTAA
GGCTCCCAAATCACATGAACCTAGGACCACTAAATCCAATGTCAGACGTGTTTAAATGGT
GCACTGCTCTACATTTTTCTATTATGCAAAGAGCTAGAAAATAATGGTAGTGTCATTATG
ACATTCCATGAAAATGAANGAAAATCTTTCAGGAAAAATTAAGAAAATAAAAATGTTTAC
TAAAGAAAGAATGGTCCGGCTAAGTGCTANAGTTTNTTTCNNTTTTTTTTTA
Sequence 2299
AGGTACTATCAAGCTTTATTTTACCTGCAAAAATATTTTAGCTACACTTGGAAAAAAATA
AACTTGAGAATATAACTTCACATTTCTAAGGCCAGCGGACGCCGTGGTCGAAGCTCGACC
TGCCCGGGCG
Sequence 2300
AGGTACGATTTTCCCTTCGCTTGAATATTATCCCTGTATATTGCATGAATGAGAGATTTC
CCATATTTCCATCAGAGTAATAAATATACTTGCTTTAATTCTTAAGCATAAGTAAACATG
ATATAAAAATATATGCTGAATTACTTGTGAAGAATGCATTTAAAGCTATTTTAAATGTGT
TTTTATTTGTAAGACATTACTTATTAAGAAATTGGTTATTATGCTTACTGTTCTAATCTG
GNGGTAAAGGTATTCTTAAGAATTTGCAGGTACTACAGATTTTCAAAACTGAATGAGAGA
AAATTTGTATAACCCATCCTGCTGTTCCACCTGCCCCGGGCCGGCCCGCTCTAGAAACTA
GGTGGGATCCCCCGGGCCTGCAGGGAATTCGATATCAAGCTTAATCGATACCCGTCGACC
CTCGANGGGGGGGCCCGGGTACCCAGCTTTTT
Sequence 2301
GGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAAGCTTCGACCCACGCGTCCGGTGGCGA
GTGCCTGTAATCCCAGCTACTGGGAGGCTGCGACAGAAGAATCACTTGAACCTGGGAGGC
AGAGGTTGCAGTTAGCCAAGATCATGCCACTGCACTCCAGCCTANGCAACAGAATGAGAC
TCCATCTCAAANNAGAAAAAAAAAAAAAAAAAAAAAGTGCGGCCACCTGCCCGGGCGGCC
GGCCGCACTTTTTTTTTTTTTTTTTTTGCCATACAGGTTCATTTTATTGAGTGGAAAGCTT
ACAAAAGGGCCACTGGCCCCTTCC
Sequence 2302
CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTAGGGTTGAGGGGGAATGCTGGANATTGNAATGGGTNTGGANACATATNATATAAGT
AATGCTAGGGNGAGTGGTAGGAAGTTTTTTCATAGGAGGNGTATGAGTTGGTCGTAGCGG
AATNGGGGGTATNCTGTTCGAANACCTGCCCGGGCGGNCGGCCNCACTTTTTTTTTTTTT
TTTTACTTTGGCNGGGGNTTTTTTCTTTTCTTTTTTTTTTCAGCTACNGGAATTTANCCN
ATTCANAGGAAATCTTCCCCATAATTANGGAACTTTNTTACANANTTTACCAAGTNTGGG
CNNCCCNATAAGAAAAAGACTGAAATAACAACAACNACTTTAANAAAT
Sequence 2303
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCNNTNTNTTTTTTTTTNTTNGCCAG
NTANAATCTNAGCTTTTTATTTGTAGGAAAAAATAAACAGATTNCCCTCCNNAACANGGC
GTNACAANAAANGAGGCAATNAAGGGAAAAANGCANATNCTAAACGGACNCNTGGGTTNA
ANCTTGACCT
Sequence 2304
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGT
CCGAGAAGAGTTTGCAAATGCAACAAAATATTTAATTACCGGTTGTTAAAACTGGTTTAG

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CACAATTTATATTTTCCCTCTCTTGCCTTTCTTATTTGCAATAAAAGGTATTGAGCCATT
TTTTAAATGACATTTTTGATAAATTATGTTTGTACCTGCCCG
Sequence 2305
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCCGCA
CTTTTTTTTTTTTTTTTTTTTGNTTTCTGGGTGAAGTTTATTCTGTTTTCACATCTAGGT
TGTTGGGGAGAGTGATAGACAAAGTTCTGGATTCTGGGCATCGTCGGCGCATGCTTGTAA
TCCTACTTGGGAGGTTGAGACAGGAGGATCACTTGAGGCTAGGAGTTGGAGGCTGCAGTG
TACCTGCCCG
Sequence 2306
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCGGCCGCACTTTTTTTTTT
TTTTTTTTTTTTTTCTTCTTTCTCTTGCCTGGATTCAGTCCCAGAAATGTTAGGACTACC
TCAGTTTTGCTCCAAACCAAACTCAAACAACAGCAGCCACTGGAAATCAAGGAAACTTCA
CTAAGAATTTAACAGATCATCAAAACACCGCCTCCTTCCCATTTTAGCCGGACGCGTGGG
TCGAAGCTTGTACACCTGCCCG
Sequence 2307
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATTAAATA
TTCTGAGAGGTGAATGTAAAATATAAAAGGTATAGGTTTTTTTTTTTTAAAGAAAACAAT
NAACTTTCAAAGAGAAAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGGCC
GCACTTNTTTTTTTTTTTTTTTTTAAAANANANATGAGGTTTTGNTATGTTGCCCAGGCT
G
Sequence 2308
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACC
CACGCGTCCGTTCTAAATGATCGACAACTCTCAAGCAATAACTTGACTGTTGAATAGAAG
ATTAAGAAAAGTTGGTTAAAAAAAAAAAAAAAAAAAGT
Sequence 2309
CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGCTCG
ACCCACGCGTCCGAAATAATAAAGCTAGAAGTAATATTTTTCCTTTTGTCTATTTTCCAA
ATTGACTCGATATTGATGGCTACTTTTGTAAGTTTTTATTTAAGTTTAAAGGGAATATTT
ATTGATCACCTCTATGTGCTCAGTACCT
Sequence 2310
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGCTTCGACCCACGCGTCCGCA
AAGTTCACCAAATTCGCTACAGCCTAAGACTAGCCTCACCAGTCCTTTTTCCCATTAATC
AAAACTTTGCAGAAGAGACAATGATTTTTACCATTCATTCAACCAGTTTGCACAGAGAGA
GGCTGAAGCCTGACTTGTAAGAAACTCTTGTCCTTTTGCCAGTGTGCCAGGTTTCTGGGT
TCCCCTTCTCTGAGTGGCTTTGATGACCCTGCTTGCTGTGCCATAGCTATGGGGGGGCCA
AGCCATGTTACCCAAAAAAAAAAAACNNTNNNNNNNGGTGCGGNCNGNCCCTCGNGATCT
AAANCCCCATAGGGGGNGGGATTAACAATTNCCATTCCCNNGGGGAAATTTTTTGGCNCC
TTTTNTTGGGGAANAAAATTTTTTTTTTGNAAATTAAAANGGTTTAAAAANCCNCCCCTT
TTTGNAAAAATTTANTGGNTTTTAACCCCCC
Sequence 2311
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTAANGCTG
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TTAATGAGCAAAATATATNCCCTATTATTTTCCTACAAGTTGCTTTTTACTTGAGTAGGA
ACCCTTGATTG
Sequence 2312
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCTGGTATGCCAGA
TGAGAATGACAGGAGCCATCCGCAAGCAGTTGGCGGCTTTCTTAGAAGGCTTCTATGAGA
TCATTCCAAAGCGCCTCATTTCCATCTTCACTGAGCAGGAGTTAGAGCTGCTTATATCAG
GACTGCCCACCATTGACATCGATGATCTGAAATCCAACACTGAATACCACAAGTACCTGC
CCGGGCGGCCGGCCGCACTTTTTTTTTTTTTTTTACCTGAAAATGCTTATTCTAGCTTCA
CATTTGATTGTTTGGCTAAGAAGAAAATTATTTATTAGACTTAATTTTCCTCACGAGTTT

TABLE 1

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AAAGATTGCTTCAGATCTTAAACTTCTAATGAGGAAAGCTGAGA

Sequence 2313

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGCAAGCTTCGACCCACGCGTC
CGCAAAGTTCACCAAATTCGCTACAGCCTAAGACTAGCCTCACCAGTCCTTTTTCCCATT
AATCAAAACTTTGCAGAAGAGACAATGATTTTTACCATTCATTCAACCAGTTTGCACAGA
GAGAGGCTGAAGCCTGACTTGTAAGAAACTCTTGTCCTTTTGCCAGTGTGCCAGGTTTCT
GGGTTCCCCTTCTCTGAGTGGCTTTGATGACCCTGCTTGCTGTGCCATAGCTATGGGGGG
GGCCAAGCCATGTTACCCAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGGCCGCCCGGGCA
GGTGTCACTTTCAACTTGGTTATGCCTAAAACAAAGTCTCCCTCATCTCCAAACAATTTC
TCCCGACTTTCTTTCTTTTTTGAGATGGAGTCTTGCTCTGTCGCCCACGCTGGAGTGCAG
TGGCATGATCTTGGCTCCCTGC

Sequence 2314

CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAATGCTCAAAAGA
ACAATTTTTATGTAAGTTTGTGATAGAGGCCTCAGGTAATTCTACAAAAATTAAAACCCA
TTTTCAATGCAAAATTCCCGAACATAAACAAATGCTTTTAAAAATATGGATGGNGTGGTT
ACTCTTTTAGTAATACTTGGATTATCATCAAAGATTTAACTTTATTTTTTTGNGTGTGTG
TGTGTTTTTTTTTTTTGNGNGNGTTTTTTTTTTTTTTTTTTTATTATACNCTAAGTTTTAG
GGTACCTGCC

Sequence 2315

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACC
CACGCGTCCGACTTTTTGTCTTAGACCCAGTTAGGGTCACCTTACAGTGCAGGTGGAAAG
AAAGCAGGACTGCTGAGAGGAGCTCAGGA

Sequence 2316

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCACGCGT
CCGGATTAAAGTCCTACGTGATCTGAGTTCAGACCGGAGTAATCCAGGNNGGTTTCTATC
TACTTCAAATTCCTCCCTGTACCTGCCCG

Sequence 2317

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGNCGAGGTGTACAANGCTTCGACCCACGCG
TCCGCCACACGTAACTGAGATGCTCCTTTAAATAAAGCGTTTGTGTTNGANGTTAAAAAA
AAAAAAAANAAAAAAAAAGT

Sequence 2318

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTNNTTTTTTTTTTTTTT
ATTATCTAAATCAGNTTTATTTAAGAATTTCCAACANTGACAACTNTTATAAAGGGGCAT
CCAAGCACAGGACACANAACTGCNACAAACAGCATTCTTACGGACGCGTGGGTCGAAGAC
CTCGGCCGCT

Sequence 2319

CCGCGGTGGCGGCCGAGGTACAGAATGGTAAAAATTCCAATCAGTCAAAAGAGGTCAATG
AATTAAAAGGCTTGCAACTTTTTCAAAAAAAAAAAAAAAAAAAAGTGCGGCCGGCCGCCC
GGGCAGGTCGAGCGGCAGCACTTTTTTTTTTTTTTTTTTTTTATGGNTTTTATTTTTCA
ATTTTTATTTTGGTTTTCTTACAAAGGTTGACATTTTCCATAACAGGTGTAAGAGTGTTG
AAAAAAAAATTCAAATTTTTGGGGGAGCGGGGGAAGGAGTTAATGAAACTGTATTGCACA
ATGCTCTGATCAATCCTTCTTTTTCCGGACGCGTGGGTCGAANACCTCGGCCGCTCTAGA
ACTAGTGGGATCCCC

Sequence 2320

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCTCTTGTCTAGT
ATACTCAAGGCAGCCTAGTAAATTATTATTTATCTATACAATACTGGAAAAACTNGNAGA
CAAAAACATGACTTGAATTGCTAAAAAAAAAAAAAAAAAAAAANGAGGGAGAATGAAAACT
TCCGGACGCGTGGGTCGAAGCTTGACCT

Sequence 2321

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTNCATTTACATACAACTGA
TCCAAACAGGAAGTAAAAGCNTTATGAAAAAAGAACATGATGCAAATCATTTCCCNNNGA

TABLE 1

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CAAAAGGAGGGATCTGCGTGAATTACAGCAAATCAAATGATTTCCACATTATAAAAGCAA
GCCATGGCTTCTACAGATATTTTAATTCCTTGGGAGGAAGTTTCACCTNATCGGACGCGT
GGGTCGAAGACCTGCCCGGGCGGC

Sequence 2322

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACC
CACGCGTCCGATTTTTGTCTCCTGAGGTCAAACTGTGCCCATCTTTACTGCCCCTGTGTT
GGTGTCATTCCTTTCAGCGCACTCCATGTTCTGGCAAAACACCCACAGCTCACGTTCTCG
TTGTAGCCACATTACGCCTTTGCATTACTCTTTTGCCACTGACCTCACTGTCAGTCTTCT
TGTCACGCTGTTTCCTCCAGGTGACTCTGACATCATTAGAAGCATGCCAGAACAGACTGG
TGAAAAGTAAACCTTTTCACCTACAAAATTTCACCTGCAAACCTTAAACCTGCAAAATTT
TCCTTTAATAAAATTTGCTTGTTTTAAAAAAAAAAAAAAAAAAANAAAGTGCGGCCGCTCT
AGAACTAGnnnnnnnnnnnnnnnnnnnnnnnnnnCGATATCAAGCTTATCGATACCCGTC
CGACCTCGAGGGGGG

Sequence 2323

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCG
CTGATCTGTGATTAAAGCAGTAATATTTTAAGATGGACTGGGAAAAACATNAACTCCTGA
AGTTAGAAATAAGAATGGTTTGTAAAATCCACAGCTATATCCTGATGCTGGATGGTATTA
ATCTTGTGTAGTCTTCAACTGGTTAGTGTGAAATAGTTCTGCCACCTCTGACGCACCACT
GCCAATGCTGTACGTACCTGCCCG

Sequence 2324

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTCGACCCACGCGTCCGCAT
TTTCAGGCTTCTGCAGCTGTAGATTCTCACTGTGAATCCCTTGCTTGCTCATGCATAAGT
GTATTTGCAATACCAAATATACAGGTTTAGTATTTTGCCTGTTAGTGATTGTTTCACATG
TGTAACGTTTTGGTTGAGATGTTAAATGGTGGACGAGTACCTGCCCG

Sequence 2325

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCANGGTGGCCGCACTTTT
TTTTTTTTTTTTTTTTACTATTCGTTAGGCTTTTATTTTTCTCTATGTTCTGCAGTAACT
AAGGAAAATCATGGTAAATGTCAATCTTCACACAACAGCAGACACAAAGGGTTTCAGAAA
CCGGACGCGTGGGTCGAAGCTTGTACACCT

Sequence 2326

GGTGTACAAGCTTCGACCCACGCGTCCGGTTTCTGAAACCCTTTGTGTCTGCTGTTGTGT
GAAGATTGACATTTACCATGATTTTCCTTAGTTACTGCAGAACATANAGAAAAATAAAAG
CCTAACGAATAGTAAAAAAAAAAAAAAAAAAAAGTGCGGCCACCTGCCCGGGCGGCCGGC
CGCACTTTTTTTTTTTTTTTTTTTTTCACTGTTTAAGGAATTTTTATTAAAGCAAGAATTT
TATAATCCAAATTACGTTTCCTTGCTCAGTTATCAATTCTGTTACTTAAAACAGAACTGA
CATTCTGAGCTATTCCACAGTAAAGAATTACAAAATTAAAGAAAGGAATGCTTTAAATTT
TTGTACCTGCCCG

Sequence 2327

CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTCTTTCTACTTTTAGGGTTTATTT
ACTGGTAGTTTCAGGTCTGGAAATACAAAAAGGAACATGACATGGGTTCTGCCCTTGAGG
TGCTCCCAGTCTGGTGAGGGACACAACACCTTTCAGGGGACAACCGTGGTACCT

Sequence 2328

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGCCGCACTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTANAATTTAGCCACTTNTCAGGCCTTNTTCCNNATAATT
TGGAACTTTCCTTTGGATTTGATCAAGTTGGATAGAGTTGATCAAACCCTGATCAAGTTG
GATAGAGTTGATCAAACCCAATGGGAAAAAGACCAAAACAACANTAAAAAACAGACAACA
ACAACAAAAAACAGTTAGGCAAAACAAACAATGGCACAATTTATNTGATAACTGGGGTNG
CTTTAATNGGAANGGANAAATTAAAACNNGGTTGGGCGGTTATTTTNACTTTAACCAAAA
AANAAACCCCCAATTTTAAGTTNCTTTNCTTANGGGGCGANGTTNTTGGGGTTTTAAAAA
NGGGTTTTTTCCCTTTTTTAGNAAGGGNGGGGGGNAAAACCCCANCCCNNCCCTNANAAA
ANCNCCNCNTTTTTTTCCNTTNNNGGGAGGGGGNGGCCAAAACNCCCNCCNNTTTNGAAA

TABLE 1

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AAAAAGAAAATTTTTTTTTTTTTTTTAAGCCCNTTTTAACCNCCAAAAAAAANNAAGTGT
TTTCCNNNCGNNNCTTTTNNAAAANNGNGGNACCCCCCNGGNGGGGGGGANNTTTTTTAA
TTTTTTTNNCCCCCCCCTNGGGGGGGGGGCC

Sequence 2329

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCACGGTACTGAGGAAATATT
TTGTAAAGTGAGCTTTGGGTATAACTTAGCCCCATCATTATTTAGAGAATAGAGGAGGAA
GAAAGAGGAAGGATTTTAAAGGCAGACAATGACAGACCATTCAGGATAGGTAGGGTTTTA
AAGGGAGCGGACGCGTGGGTCGAAGACCT

Sequence 2330

CCCCGCGGTGGCGGCCGAGGTACCCTAAAATTTAAAGTATAATAATAATAAATTTTTTTT
TAAAAAAAGAGTGTTGTCTTTGTCTTGTATTTTCTGCAGTTTGCATGTGATATTCTTAGG
TATAGATTTTTTTTAGTATTTGTCCTGTATATTGTTATTCGAGCTTCTGGGGATCTGTGT
TTTGGTGTCTATCATTAACTTTGGAATATTCTCAGTCATTACTGCTTCAAACATTCATTC
TGTTGCTTTTTCTCTTCTGGTATTATCATTACACATATATCACACCTTTTGTAATTCTCC
CACAGTTCATAGATATTCTGTTGTATTTATTTATTTTTTCTCTTTGCCTTTTAGTTTTAG
AGATTTCTATTGACATCACTTAAAGATGATTGATGAGTTGATGAGAATTGAGAGAATTGA
TGAGAATTGTTGATGAGAATTATTCATTTGTGTTAGTGTTTTTCATTTCTGCCATTGNCT
TTTGATTTTTAGAGCTTCCATCTCTCTGCTTACA

Sequence 2331

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACCTTGACCGTGACCGTTTG
CTATATTCCTTTTTCTATGAAATAATGTGAATGATAATAAAACAGCTTTGACTTGAAAAA
AAAAAAAAAAAAAAAAGT

Sequence 2332

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AACAGAGGCTCAGAGAGGTTAATTTTTCCTGGATGTCCTAGATGTTAAATGTTACAACCT
TAATTGACCGATTCCAGAATCAGAGCTATTAAACACAAAACTATTTTAATTCTCTCTAAA
TTCTTAAAGACCCAAGAAAAACAAACTTTATTGAGATAATTAGGAATTTTTTTTAAAATA
TCGGACGCGTGGGTCGAAGCTTGACCT

Sequence 2333

AGGTCAAGCTTCGACCCACGCGTCCGTGGTGAACACAGAGAAGACAGTCTTGTATATATT
CCTCTGTATTCTGGGGAGCTTTGACCTTGGAGCTTTGTACCTGCCCG

Sequence 2334

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGCAACAC
CTATGTTTATAAAAATTTGAAAACATTACATATTGTATTTAAAACTAATTAGNGAAGAGT
AAGAAAAAAACTAGCCAACAGAATTGTAGGTGATGCATTAGTTAAATTTCAAAACTCATA
ATAAAGGAACTTTCAGAGATTGGTTGAAACCCAGTGGTATCCCTGTAAATTAGCTCCTGT
GACTGGAAAAGACCCCAAAAAGGCAGTAGAGGAGATTAGTGTTTACTTGCTGTGGTTGTG
GTGTGCTGCTACTTAATTATAGGTAGTGACACACTGAAATTCTTATTTGTCCAATAATCT
GAAGTAGTTTCCTATATTTATCTGTACCTGCCCGGGCGGCCGGCCGCACTTTTTTTTTTT
TTTTTTGCNGGGGNTTTTTTCTTTTCTTTTTTTTTCA

Sequence 2335

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTNNNTTTTTTNTTTTTTTTTTTCTT
TAAACACCANTTAGTTTATTTCAGGACAAGAATTTACCATNTAACANTCTTTTNACATAA
ATTCTGNCTCCCCCCACTTTTTTTTTTTTTGAANATAACCATTCCTTTTTTTTT

Sequence 2336

CNAANNGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATCTNTATCAGAGCTTTT
GGGTGACCAGGCACACTGTCAATGAGCAGTAATACGGGGAAAGGAATCTTTGGGGTTTTT
TTTGGTTTGGTTTTTGTTTTGTCGTTATTTTTTTGTTTGTTTGTTTTTTGTTTTTGTTTT
TTTAGCAGTAGGCCTCAACAGTGGACTTAAAATACTCAGTAAACCATGCTGTTAACAGAT
AAGCTGTCATCCAGACTTTGTTGTTCCATTTCTAGAGCACAGAGCAGATTTAGCAGAATT
CTTAAGGCTTTAGGATTTTCAGAATGGTAAATGAGCACTGGCTTCAACTTAGTCACCAGC

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TGCATTGGCCCCTAACAAGACAGTCAGCCTGGCCTTTGAAGCGTTGCAGCC
Sequence 2337
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAACTGCACATATTTAA
AACATATAATTTGATACATTTTGACTCACAAAACAATCACCACAATCAAGANGATGAGNN
TATAGATCACTCCCAAAAGTTTCCCTGTAGTCTTTTGCAGTCCTTTCTTCATGGCCTTCT
TCATCCATCCACCCCATCTCGGTAACCAATGATCTGCTTTCTGTCACCACAAATTAGTGA
GCACTGTCTAGAATTTTATGTAAACTGAATAATAAAGATTTTACTCTTTCG
Sequence 2338
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTC
CGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGAATCATCATTAACTTTAT
TTGNCACTNTTGATAGACATTGGTCCACTCCAACATAAAAAGNAGAATTCACCCACTTCC
ACTTAATATTCTATAGAATGAAGTTGTACCTGCCCGGGCGGCCGGCCGCCCGGGCAGGT
Sequence 2339
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAGATTTTTTTACACAA
AGAAACTTAATGCTGTATTAATAAATTCAGTGTGTAGCTTCAATTGGGATAGTTCCAAAA
GTGAAGATTTTGTGAGGAATAAGTGCAAATTTTTTTTTTATTTTAAAAAATTCTTTGAAA
CTCTTAAGTCTTTGTGTCTGCAATAAAATTGTACCTGCCCGGGCGGCCGGCCGCACTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTNGAAANGTTTGAAGTTAACTCATTTTATTTNTAGGA
TTNGGATTTCAACATTTTAATTTNTTTGGAATATAAGTCANTTTTTGCAAGCTAAAAAAT
AGAATCAAA
Sequence 2340
TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGGACTTGATTCATAACCAACCA
ACCCAGGCTGTCATGCTAAAAAAAAGGGCAGAATCTTTGCTGCTGAACTACTGCATAGGG
TGACTACCATTGCTCCTTTAGTTTAGTTTGGCTAGCAGAAGGTGGTCTTGCCATGTAAAT
AAAGCCTCTCAGGTAATCAAAATGTTTCTTTTTTTTACTTTTGCTGGTGTTTTTTTCTTTT
CTTTTTTTTTCAGCTACAGGAATTTAGCCAATTCAGAGGAAATCTTCCCCATAATTATGG
AACTTTCTTACAGATTTTACCAAGTCTGGTCAACCCAATAAGAAAAAGACTGAAATAACA
ACAACAACTTCAACAAATAAAAAAAAACAGTTAAGCTAAATAAACAGATG
Sequence 2341
AGGTACTTCTTACATAGTGATTGATGTCTCATGTCTCCCTAAAATGTATAAAACCAAGCT
GTGGCCGGACCACCTTGGGCACATGTCATCAGGACTTCTTGAGGCTATGTCACTGGGCAT
GTCTTCAACCTTGGCAAAATAAACTTTCTAAATTAATTGAGACCTGTCTCAAATTTTGGG
GGTTCACAGGTGAGTGGGCTCAGGCATGTGCACTAGTATGACTAAAGGTCATAGACTATT
AGACTATTAGTCTATGACCTTCCTCTAGAAACACTCGACTGGTAAGGGAAGAATGCCTCA
ACTGAGCATGTGCACAACTCCCATAAACACACTTGTGCTTGCGGAGCCTNTCAAGTGCTG
GCAGGCCACTGCTCAGGTGGATTCTTCCCTCCTACCCGGAGGGAAGAATCAGGGGAGAAG
GGACACAAGCCCCTGAATGCATGCCAACACGTAAA
Sequence 2342
CCGCGGTGGCGGCCGAGGTACCTTCAGGTATTGCCTATTTAATGATCATATATACTTGCA
TAATATCATCCCTTCCCTTGATTTCTTTCAATCTAAAAATAAATATGAGAAAAACAAAAA
AAAAAAAAAAAAAGT
Sequence 2343
ACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGGACTCAAGACC
AGATGGCCAACTAGAAGCAGCCAGGAAGAACATCTCTCATGGAGAGACCAGGAATTTGGG
AAGACTGGCACACTCTGAGCAGATCTTTTGAAGGAAAACATTGAGGGTGGATGAAGGGAG
GATGCAGAGCATGGGCTGAGGGGGCAGGAATCTCAGAAGCCTGCACAGGGCTTCCAAGCA
CTAGCATTCCTTACTAGCCCCCATTAACTCCTGGGGAAGGGGTGAGTTGAATAGGTGGNG
GAGTGGCCCGCTCTTACCATGAAACTCCAGAATCCTAGCAGCAAGAGACCCCATGACCCC
TGTGGACACGAGCTGTCCGGACGCGTGGGTCGAAGACCTGCCCG
Sequence 2344
CCGCGGTGGCGGCCGCTNNCTGCCCGGGCGGCCGGCCGCACTTTTTTTTTTTCTTTTTGG

TABLE 1

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AAAAATNTNNNGACTCTGGGGATAAAANTNCNAATTAAATNNATNCNANNTTTTAAAGGC
TATTAANNANAANAATATTNGCTAAATTNNCCTTNTGCATAACAAACTGTGGNTNTACCA
TGTAANGTTTAAAAAAATGTNTAACCNCAATTTTACGCTCCTCTGTNACANGACAAGGAC
TCCATTCANTGNCATTTAAGAACTNAATGGGTTGAN

Sequence 2345

AGGTCAAGCTTCGACCCACGCGTCCGATAAGCCAAAAAATGGGAGACAATTTCACATGGA
CTTTGGAAAATATTTTTTTCCTTTGCATTCATCTCTCAAACTTAGTTTTTATCTTTGACC
AACCGAACATGACCAAAAACCAAAAGTGCATTCAACCTTACCAAAAAAAAAAAAAAAGTG
CGGCCGGCCGCACTTTGTTTCTACTGGGTTTAGACCGTCGTGAGACAGGTTAGTTTTACC
CTACTGATGATGTGTTGTTGCCATGGTAATCCTGCTCAGTACCT

Sequence 2346

CCGGGCAGGTACCTGCTCCATTTCTCCTGCAACATGTGGATACAGTAATATGATCATACC
CTCCCTTGTTCCCCTCTAGGCCACTTTCCCCTTTAAATATTAACACCATCATAATCATCT
TTGGAGAAAGACACCTGGATCTGTCCTGAACCTTGGCAAAAAATAAATAAATAAATAAAA
ATAAAAAACTCTTCTCAATTGATTAATACCTGTCACAGATACATTTTGGTTTACAAATCA
ATGAACAATGGAGGGAACTCTGTCCTTAATCTTGGTACCT

Sequence 2347

CCGCGGTGGCGGCCGAGGTCTCTTGTTTGNTATTACACTTCTACGTAGATTATATAATAT
TGCTTGTGGACATAATTTGATCAATAATATATAATGTCAGTCACTACAGTGATCCAGAAT
CTTATTCTGGCTATGGAGGAAGCTTAATTATTAAGCAACATCTTCCTAAAAAGCTTNTGA
ATTTCTGATTCATAAGAAAAACAAAACAAATGAAAAGAGTATCTNTAACTGAAATAACAC
TGAAGTTCGAGCTTGGGCCCCCTCCTTTGTGTTCAACATAATTAACTNTTCAAGATGAAA
CCGGACGCGTGGGTCGAAGCTTGACCTGCCCGGGCGGCCGGCCGCCCGGGCAGGTGTTTN
TTCTGGGATATCTTTTTCTTCTGGGCAACCTCCTCTTCTGGTTTAGGAACAATCTGTTCC
TTTTCCGNAAGGATCATCTCAATGTGGCAGGGAGAGCTCAT

Sequence 2348

ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCTTCGACCCACGC
GTCCGGGCAATTATCAAAAACACTTGGAAAAAGATTTTTATTCCTACTTTTAAACATACA
TCAAAATCTAAAATAAAACTAGGCACCTTCAGCTGGGCCTGGTGGCTCATGCCTGTAATC
CCAGCACTTTGGGAGGCTGAAGTGGGCAGATCACTGGATGTCAGAAGTTCGAGACCAGCC
TGGCCTACATGGCGAAACCCCCTNTCTACTAAAAATACAAAAATTAGCCGGGCTTGGTGG
TGGGGACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCACTTGAACCTGGG
AGGNGGAGGTTGCAGTTAGCTGAGATCACACCACTGCACTNCAGCCTGGGCCACAGAGCA
GGACTCCATCTTAGAACAAAAAACAAACAAACAAACAAACCTCATGCACCTTCAAGAAAA
TCAAACAAGTTTTTATCTAATTAAAGAAAGAATTTT

Sequence 2349

AACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGC
GTNCGCTTTAACACACACTAGGCTCTTTGTGTATTATGATNCAGTGCTATTTGTAACTGT
GTCCCAGNGACCAAATTGCACTCGACTCGATCAGCTGTTCATCCATTTCGTGTTTTTTCC
TGTCAAACATTAATCCAGCAAATATATGAGGTATTTACCAATTTATTTTCTTAGTATTAC
AAAATAATTCATTAGCATAAAGTACCTGCCCG

Sequence 2350

CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTAAATCATAGAGC
TGCCCCAACATCTAGACAGTCTCTCCTACTGATTATAAATGAGTGAAAACTATCAGTTAG
AAAAATCTAATTTAAGTTGTTAATACATGTTTCTTTGGTGAGCACCTGGATATATTTATC
ACAAATTCTTTTATACAAATGTCGAAAATGCTTTCAACAAACCTAAGTGTCCTAATTACA
TGCCACTTTTAAGCATCACTTTAAGGTAAACAAAAATGAAAACCATAATTTTAAATTAAA
ATTTGCGGACGCGGGGGGTCGACTCAAGACCTCGGCCGCTCTAGAACTAG

Sequence 2351

CCGCGGTGGCGGCCGCCCGGGCAGGTGCTTCGACCCACGCGTCCGGATGGCTTGGGTCAT
CAGGACGTCCATTACATCCAAAGGAAGACAGCCTGTGACGTTTCAAAAGCAAAAGTCCCC

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TACCAGCCAGTGAAGCTACCTGATTTCTCAGTATCTTACGCCCAGNGACACGATCTACCC
TCAAAACTTAAAAAAAAAAAAAAGGGAAACATAAACACATAACAGCAGACCTN
Sequence 2352
GGGCCGNGGNCACAACATTCCCCCTTCCCCAAACAGTAATATGGACACTGATTTAACANG
ACTTATAAAAAAATAAGGCNCATTTATTTTGATNTGGTAATTTTAAAATAGAAACCCCTT
C
Sequence 2353
GCGNGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTNC
GAGCTTGAGTCGACCCACGCGTCCGTGAAAATGTTGTCTCCTTTCTAAATTCTCTGCCGA
TTTGGGAAAAAGCAAACTTGACTTTACCCCGAGGAATTGGTGAAAAATTACTTTTACGCC
TTGCAGCTGTGGAACTTGGTCTTACAGCCTCTGCTCTTCTGCCCAAACGGGCCATGCAGT
TTGGATCAAGAATTGCAAAAATGGAAAAAATTAATGAAAAGGCATCTGATAAATGTGGAC
GGCTCCAAATCATGTCCTTAGAAAATCTTTCTATTGAAAAGGAGACTAAATTGTAATGTG
ATTCACAATGTAACAATATAAAAATAAGTTTTTATATAATTATTAAAAGGNAGATACTCT
GGTGCTTTACTATTGGATAAAATAAGTAAACCTGCCCGGGCGGGCCGGCCGACTTTTTTT
TTTTT
Sequence 2354
TCCCCGCGGTGGCGGCCGAGGTTTCAAAGACCNGCCTGGCCAACATGGTGAAACCCCATC
TCTACTAAAAATATAAAAATCAGCCGGGCATGGTGGCATGTGCCTGTAATCCCAGCTACT
CAGGAGTCTGAGGAGGAGAATCACTTGAACCTGGAGGCAGAGGTTGCAGTGAGTCGAGGT
TGCGCTACTGCACTCCAGCCTGGACAACAGAGGGAGACTCTGTCTCAAAAAAAAAAAACC
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TTTTTTTTTNNNNCNAAAAANCCTTTTTTTTGGTTTTTTTAAAAAAAAAAA
Sequence 2355
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGGCCAGAGACTTC
AAGTCTATCTGAAAAGTCTCCAGAGGTCTAACCCCAGATAAATAGCCAACAGGGTGTAGA
GTACATTTTACACCCCAAAGAGTGTGCCCCATGGTGATGAAAATAAAGTGAACATGTTGC
AAAATGAAAAAAAAAACCT
Sequence 2356
CCGCGGTGGCGGCCGCCCGGGCAGGTACCCAACACAAACTATTCAATAAAGTAATCTGCT
TTAAAAATAAAACACACTGAAAGGCCGAGGCAGGTGGATCACCTGACATCATTAGTTCAA
GACCAGTGTGGCCAAACTGGTGAAAATTAGTCTCGACTAAAAATACAAACATTAGCTGGG
CGTGGTGGCAGGCGCCTCTAATTCCAGCTACTCAGGAGGATGAGGCAGGAGAATCACTTG
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ACAGAGTGAGACTCCGTCTCAAAAACACCACCACCAACAAAATAAACACAACAGAATTAT
TCTGCAAATACAGATATTGGAGTAGCTGAGTTNCATCTCAAATTTGACTATGCAGGTTGC
AGGGTGATCTTGGCCAACTACTTATTCTTTTNTGAAGTTCAACTTTTTT
Sequence 2357
CCGCGGTGGCGGCCCGAGCAAGTGGGCCTGTAGCCCGACTCTTAATCCAGGTTGGTGCTA
TTCAAAGAGATCATCTTTCACCCGAGGGATTTCTGGGCATCTATTTTGCGGATCAGAAAG
TAGAGAAAGAAGGTAACTTTGCTGAAAGCTAGTCTGGGGAGTTAGTAGCTGATACAGATC
AGCATTTCCTAACTATGAGATTTCATAATATTCTCTCTTGTCTCGATTCTGAGTCACTGG
TGCCTGCTGTGGTGGCATTGTTCATGAACATGTACCTGCCCG
Sequence 2358
AGGTCATGTGCACATTGTGCAGGTTAGTTACATATGTATACATGTGCCATGCTGGTGCGC
TGCACCCACTAACTCGTCATCTAGCATTAGGTATATCTCCCAATGCTATCCCTCCCGCCT
CCTCCCACCCCACAACAGTCCCCAGAGGTGATATTCCCCTTCCTGTGTCCATGTGTTCTC
ATTGTTCAATTCCCACCTATGAGTGAGAATATGCAGTGTTTGGTTTTTTGTTCTTGCGAT

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AGTTTACTGAGAATGATGATTTCCAATTTCATCCACGTCCCTACAAAGGACATGAACTTG
AGAATTCTTAATGCAGTGCTTTAATACAGTAAAAATTTTTAGTCTTTGTTTTCTACAAAA
TGCATTTGAAAAGTGCACTCTTGATCTTGNATTTTCTTTCCTTTCCTTTAGAATCATATT
AGCAGTTGGACGTATATATAAAATATTAAGTGTACCTGCCCGGGCCGGCCGGTCTAGAAC
TAGGTGGGATC

Sequence 2359
AGGTGTACAAGCTTCGACCCACGCGTCCGAGCAGAACTTGGCAGCAACAGAGGAAGGGCC
CCTGGAGCCGGCTGTCGTGGATGCCTTTAATCAAGCCTGGCATTTGGTTGCTCACGAATG
TCCCAACTCTTCCGCTAGGCCCATCATGCTCAGGCTGCCCAAGGCTTTTCTGTCACCTCT
TTTGTTCTCTCACACTGACCAGTCTTACCTGCCCGGGCGGCCGGCCGCCCGGGCAGGTAC
CAAGTGAATTTAAATAATTGGTGTGGATTGGCCAGTAGCTAAGTGGGCTTTTAAAGAGTA
TTGAAGATTGAAAGGGTTTTTCTTTCTTTTTTAAAAAAGAAAAACAAACTATTGATTGTA
GATAATGAAAAGCTAGGGTTTGCCCTCTTCATGTCTACTCTCCTTCCAAATAGTTATATC
CAAAACTGTTTTTTCCTNTCCCCTACCTTGTCC

Sequence 2360
CGAGGTACACAGCTATGCACTTTCCGTTTCTGACTTTTGCCACCCTGTCAGCCATGGGGA
GCCCACTGTGGGACTGAAACCCTGAGCTGAATGCGGCCTCATGTCTCAGAGAAACACTGG
CAAGTTGGTCAGAGCCGCGTCTGCATCGAGGCGTAGCTGANCGGCAGGATGGGGGGCTGC
CTGCCCAGGGTCTCTCACCGTGGTGTAAGCAGAGCCATGGCTNGCCTAGGACCCTATAGA
TACCATCACTCTTTCTCAGCTCGACTGGAGTTTGCACCTTTGCAGGGGCAAAGTAACTCC
CTGCACCCTGAACCACCCCCCATTCCTGTTCATTTCAGCAGATAATGATGGAGGGGGGGG

Sequence 2361
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTCAAGCTTCGACCCACGCG
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TTGAAATTCTACAAGGAACTTCAGGCACATGGTGCTGATGAGTTATTAAAGAGGGTGTAC
GGGAGTTTTTGTAAATCCAGAATCAGGATACAATGTCTCTTTGCTATATGACCTTGAAAA
TCTTCCGGCATCCAAGGATTCCATTGTGCATCAAGCTGGCATGTTGAAGCGAAATTGTTT
TGCCTCTGTCTTTGAAAAATACTTCCAATTCCAAGAAGAGGGCAAGGAAGGAGAGAACAG
GGCAGTTATCCATTATAGGGATGATGAGACCATGTATGTTGAGTCTAAAAAGGACAGAGT
CACAGTAGTCTTCAGCACAGTGTTTAAGGATGACGACGATGTGGTCATTGGAAAGGTGTT
CATGCAGGAGTTCAAAGAAGGACGCAGAGCCAGCCACACAGCCCCACANGTCCTNTTTAG
CCACACCTGCCCCGGGGGGCCGNTTGAGGGCCNCCCGGCAGGGNNNGTNNTAACANNGTA
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ANNAAAGNTTGNTTTNAAAAAAAAAAAAAGGGATGGGTNTTTTTNAAAAAAAAAAAAAAA

Sequence 2362
CCGCGGTGGCGGCCGCCGGGCAGGTACAGCCTCACATACACAGATGCAGGTGAAGTCACC
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AAGTTTGAAATTCATTTTCTTCAGGAAAATACCCAGCCAGTCTCTCAGTGGAAACCCTGG
TTATGTCGTGGGGCTCCCATTAGCTGCTGGATTCCAGCCTCATAAGGGTGGAGCTCTCCC
GTGTCAGCTCGTAGCACAGAAGGTGAAGAGCCTGCTGTGGGGCCAGTGCTTCCAGATTAC
GTGGCCCCTTTTGGAAATTCCCAGGCCCAGGACATGCTGGACTGGGTGCCCATCCACTTC
ATCACCCAGTCATTCAACAGGAAGGATTCCTGCCAGCTCCCAGGGGCTTTGGTTATAGAA
GTGAAGTGGACTAAATACGGATCCCTGCTGAATCCACAGGCCAAAATAGTCAATGTAACT
GCAAATCTAATTTCATCCTTCTTTNCTGAGGCCAACTCAGGAAATGAAAGGGCGATTCTT
ATTTNCACTGGNGGTACNTTTGNGGATGTGTCTGCACCTGCAGANGCAGGCTTTAAAGCT
TCANCAGNCATTAATGGCANGCTGGCCNTTAACTTT

Sequence 2363
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCACTTTNTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNAAAAAAAANTTTNAANGGGGG
AAAAAAANNGGGNAAAAANTTNNGGGGNNGGGNTTNAAAAAAAAAAAANCCCCNNNNCNN
AAAAAAAAANNGGNCCCCCCGGGGGGGGNNAANNTNNAAAAAANTTTNTNCCCCCCCCCC
CCCCGGGGGGGGGNCCCCCCCCCNNNTTTTTTNNNNNTTNANNGGGGGGAAAANNNNCCC
NGGGGGAAAAAAAAANNAAAAAATTTTTTCCGGGGGAAAAAANNTTTCCCCCCCAAAAAA
TCCCCAAAAAAAANNGGNNGGGGGNAAAAAAAAANAAAACNGGGGGGNCCCAAAGGGGGG
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CCNTTTTAAAAAAAAACCCCCCCCCCCCCGGGGGNGGGGGGTTTCCNAAAGGGCCCCCTTC
CCCTTTCAAAAAAAAAAAAAAAGGGGGAGNGNNNNGGGGGGGGGGGGGGGTTTTTTTCC
AANANAAGGGGGGGNTNTANTNTTACCAAAAAAAANGGGGGAACCCNCAAAAAAAATTTT
TNNAAAAAGGCCCNAANGGCCCAANCCNAAAAAAGGGCNGGGGGNGGGGGTTTAANAAAA
GNCCCCCCCCCCGNGANAAAAAAAA
Sequence 2364
CCGCGGTGGCGGCCCGAGGTCTTCGACCCACGCGTCCGCACTGAGTGTTCACCATAATTT
GAGATTCTTGGCATGTTAACTTTTCATTATGGAATATTGAATAATTTCAATATTATTCAT
ACATTTCTTTATGTTCAAACATACACAAAAATAGAATAATGAACTCTACCCATCACCCAG
CTGCAACAAATATCAATACTTTACCGTTCTTAATACATCTAACCCCTTACTTTTTGTTTG
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ACCCAGGCCAGAGTGCAGTGGTACCTGCCCG
Sequence 2365
CGCACTTTTTTTTTTTTTTTTTTTTTAATAACAAACACTTATCCAACACTTAGTATGTGGCA
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TNCACCNA
Sequence 2366
CCGCGGTGGCGGCCCGAGGTCAAGCTTCGACCCACGCGTCCGGATTATTTCAGCTCTTGA
CCTGTCCCCTCTGGCTGCCTCTGAGTCTGAATCTCCCAAAGAGAGAAACCAATTTCTAAG
AGGACTGGATTGCAGAAGACTCGGGGACAACATTTGTCCAAGATCTTAAATGTTATATTG
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AACGTTTTTGTAAATATTTACTATGTTTTTCTATTAGCTAAATTCCAACAATTTTGTACC
TGCCCGGGCGGCCGGCCGCCCGGGCAGGTACCCTAATAAAGGCAGCAAAATGCATTAATC
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ATAGGCTACTCACAGTTGTTATCTGACGCTTACAGAAGTGGTAAACAACCAATTGCTAGT
TCAAGTAGTTTCCTCATGACATCTAATGGTAAGCAAAAATTAGTATGCATATTTCAACAT
CCCAGTNACCAATCTTTTTAAAATGGA
Sequence 2367
CGAGGTGTCAAGCTTCGACCCACGCGTCCCGACTTTTTGTCTTAGACCCAGTTAGGGTCA
CCTTACAGTGCAGGTGGAAAGAAAGCAGGACTGCTGAGAGGAGCTCAGGACCCATTTTCC
AGGACTATTGCTTCTCAAAACTTTGGAGAGCAGGAAAATAGATTCCCAAGTGAAAGAGGT
GGCAGAANTAAAAAAAAAAAAAAAAAAAAGT
Sequence 2368
CGCCCGGCAGGTACACAGTTCTGACTGCAATACCTTTTTCAGACTGCAAAGGGAGCTCAG
GATCCAGAAGTCATTAAAAGAACGGACGCGTGGGTCGAAGCTTGTACCT
Sequence 2369
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTCAAGCTTCGACCCACGCGT
CCGCAGAAATACTGAAAGACTTTTGCCTAAAGTGGCATTATTGACTGCTGGTGTGATGCT
ACTGTAATGTGATAAATTATTAAATTGTTGCAAAGTGCAAAAAAAAAAAAAAAAAAAAGA
CCTGCCGCGGC
Sequence 2370
CGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAAGCCTCATTATCCTG
TAGTCCATTTTGGAAAGTAAAGCCCAAGAAAGCAAAAGATGAAGGTTCTAAAGCTAGTTT

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GACTGACCTCAGAGTCCTCGGCCGCTCTAG
Sequence 2371
TTCGTGATAACTTCTCCTAAGTGCCAGGCATTGTATTACATGCTGNGAGCACANAGATGA
ATAATANCAATAGGTTCACANAAAAGATGAATTGATTGAGAGAAAAAGA
Sequence 2372
CGAGGTACCCAAAAGATATCACTGTGAAGGTTTGGATACACTGACTGAGGAAAAAAGAAG
GTCCTGAAAGCGTCTAGACAAAAAAAGACTACTTGTAAGTTGCAAGAATCAGAATGGCAT
TGGACTTCTCAGCTTTCCTCATTAGAAGTTAGATCTGAAGCAATCTTTAAACTCGTGAGG
AAAATTAAGTCTAATAAATAATTTTCTTCTTAGCCAAACAATCAAATGTGAAGCTAGAAT
AAGCATTTTCAGGTAAAAAAAAAAAAAAAAAAAGTGCGGCCGGCCGCCCGGGCAGGTACA
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TTATAACTTTAGAATGCTATACCCATTCCCACAGTAATTCCCATAGTAACCAAAAAGAAA
ATATCTGTAGGATCACACAAAAGAAAATCAGAAGTAGATGCAAACTTGTCACTACAGGAA
AAAAAAA
Sequence 2373
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GAAGGGACAGATGAGAAGTCACTTCAAGTTCCCAGAATACTCAGGAGCTGAACTTGTCAA
GGTTTAGATGTGGCAAAGCAGGCCAGGCATGGTGACTCATGCATGTAATCCCAGCATTTT
GGGAGGCCAAGGCAGGAGGATCACTTGAGCCCAGGAGTTTGAAAGCAGCCCGGGCAACAT
AGTGAAACCTCATCTCTAGAAAAAATACAAAAAAATTAGCCAGGCGTGTTGGTGTACCTG
CCCG
Sequence 2374
CGCGGTGGCGGCCCGAGGTACATCTGCAAGCTTTAAAGCAGTAGGTTCAGACTTCCTGGA
AGAACTGACACTTGAAGCTGACTAGGGNCTACTTGANCNCATACTCACTTTGGCTAAGCC
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TTAAAATTGGCCCTTTTTTATTTTTAGCCCTGGGGGAGGAGGGAGGGAATGATTCCCAAA
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TTTGGAANGGTNAACNCCCTTTNAAAAAANAAAAAACTTGNTTTCAAGGTTTTTTTTTCC
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AAACTTTTTTNCCCCCNNCNCTGGGGGGGGCC
Sequence 2375
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GGCATTAGACAGAAAGCTGGAAGTTGAAATGGTGGAGTCCAACTTGCCTGGCCAGCTTAA
TGGTTCTGTCTGGTAACGTTTTTATCCATGGATGACTTGCTTGGGTAAGGACATGAAGAC
AGTTCCTGTCATACCTTTTAAAGGTATGGAGAGTCGGCTTGACTACACTGTGTGGAGCAA
GTTTTAAAGAAGCAAAGGACTCAGAATTCATGATTGAAGAAATGCAGGCAGACCTGTTAT
CCTAAACTAGGGTTTTTACCTGCCCGGGCGGCCGGCCGCCCGGGCAGGTACCCAACACAA
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ATCACCTGACATCATTAGTTCAAGACCAGTGTGGCCAAACTGGTGAAAATTAGTCTCGAC
TAAAAATACAAACATTAGCTGGGCGTGGTGGCAGGCGCCTNTAATTCACTACTCAGGAGG
ATGAGGCAGGAGAATCACTTGAAGCCAGGAGGTGGAAATTGCAGTGAGCTNAAATCGTCC
ATTGCACTTGAACCTGGCAACAAAATGGGGACTCCGTTNAAAAACCCCCCCCCA
Sequence 2376
CCGCGGTGGCGGCCGAGGTATCACGAGCGGCCGGCCGCCCGGGCAGGTCAATCATAGAGC

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TGCCCCAACATCTAGACAGTCTCTCCTACTGATTATAAATGAGTGAAAACTATCAGTTAG
AAAAATCTAATTTAAGTTGTTAATACATGTTTCTTTGGTGAGCACCTGGATATATTTATC
ACAAATTCTTTTATACAAATGTCGAAAATGGCTTTCAACAAACCTAAGTGTCCTAATTAC
ATGCCACTTTTAAGCATCNNTTTAAGGGTAACCAAAAATGGAAACCCTTATTTTNAATTA
AAATTTNGGGNCCCGGGGTTTTANTTAAANNACTNTGGCCNTTTTTNAAATNTGGGGNCC
CCCCGNGNGGGGGNAAATTTTTTTATATAAATTTTTTTTTNCCCCCCCCCCCCCCTGGGGG
GGGNGCCCCCCCCCCCCCNTTTTTTTTTTTTTTTTTTTTNNGGGGGGANNAAACTCNNCNCG
GGGGATAAANANANGGATAATNTTTTTTTNNTTNGGAAATNTTTTTTTTTTN
Sequence 2377
GCGAATTGGAGCTCNCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTTAAAG
CACTGGTGCTCTTCTTAAGTGAAATGTTAACACAGGGCTCAATACATAAAAGAGAAAGTG
AAGTTGTTCCATTTGGGGGGTCCCATAAGGGGCCTCATGTTTCCCTAGGTGTTACCCCTT
CAGACACAGCACATGCCTACAAAGNGGACNCGTGGGGTCGAAGCACCTGCCCG
Sequence 2378
CTATAGGGCGAATTGGAGCTCCCCGCGGCGGCGGCCGAGGTCAAGCTTCGACCCACGCGT
CCGGTCTATTTTGATTNTGGGGGGTNATCAGCATTATTCTTCAGAAGGGGACCTGTTTTC
TTCAAGGGAAGAAACACTCTTATTCCCAAACTACAGAATAATGTGTNAAACATGCTAAAT
AGTTCTATCAGGAAAACAAANCACTGTNTTTATCTCCGNAGGCTATTTGNTCAGAGAGGC
CTTTTGNTTAAATATAAATGTTTAAATATAAATGTTTGTCTGGATTGGCTATAACATGTC
TTTCAGCATTAGGCTTTTAAGAAACACAGGGTNTTTGTATTCTTTACTAAAGATATCAGA
GCTNTTAATGTTGNTTANATGAGGGNGANTGTNAAGTACCTGCCCGGGCGGCCGGCCGCC
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TATTCCTACTTTTAAACATACATCAAAATCTAAAATAAAACTA
Sequence 2379
CCGGGCAGGTCTTCGACCCACGCGTCCGATTGAAGCCTCTCTGAAGTTAAACCCAACTAT
GTTTATTAAAATGTGTGAAACTGAAAGTGGGCTAGGTTCTACCAAGGCTGTGGAACTCTC
CTACGAGTTCTGCTGATCAGGAAATTTAAGAATTTATCTTAAAAATGCAAGGAAAAAAGA
CTGCCTTGGCAATTGTGAATGCTGCTTTCAATCTCCTAGCACCGAGCCTGGCACTTAGGC
AGCTTTCAGTAAGTGGGTGAATGAATGACTGAATGAATGAATGAATGGCTCAGCTGAGGA
ATGTAACTTTGGTCAAGACCT
Sequence 2380
CCCCGGCGGGTTGGGCCGGGCCCCGCCCCCGGGGCCCGGGTTACCATTAATTATTACCAG
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CCAAAGGGTGGGGAA
Sequence 2381
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TTTTGGGTTTTTAAAATTTTTAAAAAGGGGGTTNGGGCCCCCCAAAAAAAAAAAAAAAAA
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TTTGGGGAAAAAAAA
Sequence 2382
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CCTTGGGCCAGCTTGGTTTTACTCTAGATTTCACTGGCGTCCCACCCCACTTCTTCCACC
CCACTTTTTCCTTCACCAACATGCAAGTTCTTTCCTTCCCTGCCAGCCAGATAGATAGAC
ACGGACGCGTGGGTCNAAGCTTGTACCTGCCCGGGCGGNCGCTCTAGAACTAGAGGATCC
C
Sequence 2383
AGGTGCGGCCGGCCGCCCGGGCAGGTACAAGCTTCGACCCACGCGTCCGCACAAACATTT
TTTCAATGTAGCAAAATCAAACTTAAAAAAAAAAAAAGAAGAAAAGAAGAAGATGCCGAC

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AGTGCGGAGTCTAGCCTTTTGTAAACTTCATATTGCACACTAGGACTATAAGCCATTGCT
AGCTCATTTTGAATTTTAACGTGTAATTTTTGTTTTATTTTCTTTCTGTGGGGAAACAAT
GCTTGATCCACCAATGCTCTTTTTAATGTTTTATAACTATGTATGTGTATATATATAAAT
ATCAAATAATATGTATGCACATATGTGTGTGTATATATCTATATGTATATACATA
Sequence 2384
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AGGAAAGCTGAGAAGTCCAATGCCATTCTGATTCTTGCAACTTACAAGTAGTCTTTTTTT
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ATATCTTTTGGGTACCTCGGCCGCTCTAGAACTAGTGGGATCCCCCGGGCTGCAGG
Sequence 2385
AGGTACTCATAGCATTTTTCCCCACATAGTCTTTCAAAATCTGCATTTATTTCAAAATCT
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CAGTTTTCTGAGTTAGCTATTATTTCCACCATAAAATTGGGGGTAAGATTTGGCAAAAAA
AAAAAAAAAAAAAGTGCGGCCGCTCTAGAACTAGTG
Sequence 2386
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TTTCTTCCTCTTTTTTTTTTTTTTTTTACACTTGCTTATTAGTATAGNATCTCGTTCCAA
AGCCCGGACGCGTGGGTCGAAGCTTGTACACCTGCCCG
Sequence 2387
AATTGGAGCCTCCACCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACCCACGCGT
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AAAATGTCAGGTAGGCTCTTATCTGATGTTTTAGCACTGGAAAAAAAAAAAAAAAAAAAA
AAGTGCGGGCCGACCT
Sequence 2388
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TTATAAAAAGAGGATTTATGTGAAAAAAATTTTATGTGATCAAGTTGTCTACAATTACAA
GGAAATTATTTATAATAGACGTTCTAGAGATCTATATTAAAAAAAAAAAAAAAAAAAAA
CCTGCCCGGG
Sequence 2389
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACCC
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AAGGTGATTTTCATCTTCAGGTAGAGTGAAGCCTTTTAATTAAGGCGTCACAGGTGCAGC
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TTCATCTTATACCTTCAAAA
Sequence 2390
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AAATTGAGCATTAAGGGAATGCAGCATTTAAATCAGAACTCTGCCAATGCTTTTATCTAG
AGGCGTGTTTGCCATTTTTGTCTTATATGAAATTTCTGNCCCAAGAAAGGCAGGATTACA
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TCATATAGCTTTGGGATTTTTGA
Sequence 2391
GTTCGTATTTCTTATTCTACAACAAGGGTCAGCCTACAGGCAAAACACATCCCATTGTCA
TTTTTTTGTAAATAAAGTTGTATTGGAACATGGCCACTCTCATTTGNTTTCTATTATTTA

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TGGCTGCTTTCACTTACAACCTGAGTGGNTGCCACAGAAACTGTATGGGCCTGCAAAGTC
TAAAATATTTACTATGTAGCTTTTTCTTTTCTTTTTGGAGACAGTNTGCCACTCTATTGC
CCAGGCTGGGAGTGCGGTGGTGTGATCATGGGCTCATTGCAGCCTCAAAACTCCTGGGCT
NAAGCAATCCTCCCGCCTCGGTCTCCCAAGTAGTTGGGACTACAGGCATGA
Sequence 2392
CCGGGCAGGTACCCAGTAATCACATAAATTCTGCAATCATCTGTTTATTTAGCTTAACTG
TTTTTTTTTATTTGNTGAAGNTGTTCGTTGTTATTTCAGNCTTTTTCTTATTGGG
Sequence 2393
ACCGCGGTGGCGGNCGCCCGGNCAGGTCTAGCTTAGTCGACCCACGCGTCCGGGCTTAAC
TAATATTTGNNTGNGTGCTACTAACAGGATTATAATAAATTTGTCATCAGTGAAAAAAAA
AAAAAAAAAAAAAAAGTGCGGNCCGNTCTANNAACTAGTGGGAT
Sequence 2394
CCGGGCAGGTCAAGCTTCGACCCACGCGTCCGATTTCAGGTTGACTTTTCTCACCTTTAA
CCTCTTTATATAGCACAGTGCAATCTGGCCCTACTGCCACTTCATCTGGGTTATCTGTAG
CTTGAGTTGTAAAAAAAAAAAAAAAAAGT
Sequence 2395
AGGTACTGTTGTCTCATGTAATGCTAAAACTGAAATGGTCCGTGTTTGCATTGTTAAAAA
TGATGTGTGAAATAGAATGAGTGCTATGGTGTTGAAAACTGCAGTGTCCGTTATGAGTGC
CAAAAATCTGTCTTGAAGGCAGCTACACTTTGAAGTGGTCTTTGAATACTTTTAATAAAT
TTATTTTGATAAATAATATTGAAAAAAAAAAAAAAAAAAGTGCGGCCTCGAGCGGCCGCC
CGGGCAGGTACAGGCACCTATAGAATTTAAAGGGGAGATTTCTTTATTTTGTATTCAATG
TATTAATAAGATTTTTAAAACATATTTTGGAGAAATTGCTAAT
Sequence 2396
AGGTCCTAGCTTGAGTCGACCCACGCGTCCGATTTTTGCCTCCAGACTACAGATCAGAAA
ACTGAGACTCAGAATGTTTCAATTCCTTGTTTAAGATCACAAAACTAGTTTGAGGTATAA
TGGAAACTGAAAAAAAAAAANAAAAAAANGT
Sequence 2397
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GNACTNGGTGGANCCCCCGGGCTGCCAGGNATTTCAATATNAAGNCTTATTNGTTACCGN
GCGACCTACGAGGGGGGGG
Sequence 2398
CGGCCGCCCGGGCAGGTATCAAGTGCTTGGATTCTGAACTGNCAAAAGAAAACTGCACTT
GCCCTCTGAAGTAAAAACCGAAATGAGNTTTCTTAGGCAAATGTATTCATCAGCCCAGAT
AAAAAAAAAAACCANNTAATGNGAGCCNTTAGTCACTGCT
Sequence 2399
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GCCTGTGAGGGAGTGCAGAACACCTGGCCGGGTCACCCTGTGACCCTCTCACTTTGGTTG
GAACTTTAGGGGGTGGGAGGGGGCGTTGGATTTAAAAATGCCAAAACTTACCTATAAATT
AAGAAGAGTTTTTATTACA
Sequence 2400
AGGTGGCCGCACTTTTTTTTTTTTTTTTTTTTTAAAGTTTGGGGTCTGTCAGGAGACAGA
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AGTCTTTCTGGCTGGTTTGAGCGGACGCGTGGGTCGACACCTGCCCG
Sequence 2401
AGGTACTTCAAAGTTATTTGCACATACACTTGTTTACTTTGNATGTTTTGCAGGATTAAA
CTTTGTATAATCTTTTTGCAAAATTTTTTTTTCAGTATGCAANGCTTGCAAGATGAAAAT
TAAAACC
Sequence 2402

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ACCGCGGTGGCGGCCGAGGTACAAGCTTCNNNCNACTCGTCCGAGCTTGAGTCGACCCAC
GCGTCCGCGTTNATGATTTTTAAAACACACTTGAAATAAAAATGATTGAACTAAATTTTG
GTCCGGNGACATCATTNTGCACTGCATAGCCCA

Sequence 2403

CCGGGCAGGTACATCTCTATCAGAGCTTTTGGGTGACCAGGCACACTGTCAATGAGCAGT
AATACTTTGAAAGGAATCTTTGGGGTTTTTTTTGGTTTGGTTTTTGTTTTGTTGTTATTT
TTTTGTTNGTTTGATTTTTGTTTTTGNTTTTTTAGCAGNAGGCCTCAACAGNGGACTTAA
AATACTCAGTAAACCATGCTGTTAACAGATAAGCTGNCATCCAGACTTTGNTGTTCCATT
TCTAGAGCACAGAGCAGATTTAGCACAATTCTTAANGCTTTATGATTTTTCANAATGGTA
AANTGAGCACTGGCTTCAA

Sequence 2404

NTTTTTTGGGGGGGGGAAAACCCCNNACCCCCNCCANANAGNCANGNAANAAGGGNTTTT
TNACANNNNAGGGGGGGGCANCCCCCCAAAAAAACNNNCNANGCANGAAGNANANNNAAA
CAAAACANGNANGNAAGNNNNCACGNGCTTTTTTTAAAANATTTTTTTNNNNGGGGGGGG
GGCCCCCCCCAAAAAAAANGAGGACGNNGGAGCCCCCCC

Sequence 2405

CTNCTATAGGGCCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTTTTTTTT
TTTTTTTTTCTTTCTGTTCCTTGGACTAGATAATCTGAAATCAACTGTCTTCAGTTTTGC
AGACTCTTGTGCCAGCTAAAATGTTCTGTTGAGCCCCAGAAGCTAATTTTCTTTTCAGTT
ATTATGATTTTCAGCTTTAGAATTTATTTTTTTAATATAANNNCTACCTCTTTTTTATAT
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CTGAGNTTCCTCAGGGAAA

Sequence 2406

CCGGGCAGGTCAAGTCGACCCACGCGTCCGCTTGTTTTGCTCTATCCCATAGGAGTTGGT
ATAGTTGTGTTTCCAATATCATTTACTAAAAGAANANTNTCCTTTTTATTTCTTCATTGA
CCAACT

Sequence 2407

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CAGGTCTGNAAATACAAAAAGGAACATAGACATNGGGTNTCTGCCNTTGAGGNGCTCCNA
GTTTTGGNGAGGGACACAACACNTTTCAGGGGACAACCGTGGTACCTNGGCCGGTNTAAA
ACTAGTnnnnnnnnnnnnnnnnnnnnnnnnTCNATATCAAGCTTATCCGATACCGTTCTA
CCTNTGAGGGGGGGCCCGGCACCCA

Sequence 2408

AGGTCAAGCTTCGACCCACGCGTCCGGCCTGGGACAGATCCTTAGTCTTTCCTTGACTTT
TATAGACCCAGAGGTGAAAGGCCAAATGTTTTGTAGAATGTCCTTAAACTTGGGTTTATC
TGAGGTTTCCTTGTGATTGAATTCAGGTTAGACATCTTTGATGGGACTGTCATAGAACTG
ATGCTGTGTTCTAATTGCATCTTATCAGGTGACTTATGATTTCTGTTTGNCCCATTATTG
ATGCTGNTACTTTAGATCACTTGATTAAGGNGGTGTCTCGCCTGGCTTCTCCAGTGTGAA
ATTTCCTTTTTCTTCT

Sequence 2409

AGGTAATTTTTCTGCTTGCCCAAGAAACAAAGCTTCTGTGGAACCATGGAAGAAGATGAA
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ACTTTTAATTGGGAATAAGATGGAAAATATGAATGCTAAATCAAATTTTTTAAAAAAATA
CACCCGGACGCGTGACCTGCCCGGGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTTCAAT
ATTATTTATCAAAATAAATTTATTAAAAGTATTCAAAGACCACTTTCAAAGTGTAGCCTG
CCTTCAAGACAGATTTTTGGCACTC

Sequence 2410

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CNTATTTAAGAACAGGAAAAGACNGACAAGGAAAAGAGGGACTTTTTTTAAAAAACATTA

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CTAAAGAATTNGGACATAANAAGAGTGAAATTGACAAGGAAAGGAGGAGGGGGA

Sequence 2411

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TAACATCAATAATGTAAAGTGGGGAAGGGCAAGGTGGAAAAGGAGTAGAATGCTTGTATG
TGACTAAAATTATGTTGGTATCAGTTTAAAATATATTATTATAACTTTAGAATGCTATAC
CCATTCCCACAGTAATTCCCATAGNAACCAAAAAGAAAATATCTTGTNGNATACACACAA
AAGAAAATCAGAAGTAGATGCAAACTTGTCACTACAGGAAAAAAAAAGCTATCAAAATAG
AAAACAATNATGGNGAAAAATAAAGACA

Sequence 2412

CCGGGCAGGTGCCGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATGGAAAAAATATT
GTGATTATTTTTAATAGATTTACGGTATAAAAGAAAAACTTTTATGATNCAATTTCGACA
GACTACTTTCATAAAAAATTTTACTNTACATACAATGTATTGCAAATTTTTNGGCAAC

Sequence 2413

NGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGATTTT
GTGAGAATGATTGTTCTTTCACTTGGGCTGTTTGAGAGCATAATTATGGTAATCATGAGA
TTAATGTTTCATGATTTCTACCTCCAAAGTGTGAAGACAAGTNAAACAATGNTTCTAAAT
TGTCTTATTTTGTTGGCGGAGAAGATTACAATGGGCTATTAGTGCTACATTTGGTCAAAT
GTAATCACTTAAATAGCTTCTTGTCACCTTAACTAAAGCAGAATAAAAAAACCCTGCCCC
GGGGCGGCCGGNCCCGCCCCGGGCAGGTACCATTCCCGACGTTTGCAATGGTGGGAGTTG
GCAGGTGTG

Sequence 2414

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGCTTCGACCCACGCG
TCCGCTTCTCTTAGAATTTTGGGGAAATTGATAGTCCAGTGACTCCTACCCACTTTTGGG
TGAAGGACGATTTGGAATTTTGAAGTGTGGGGAGACAGGCCTGTGAAGTCCGAANGACTC
ACTTGGGGT

Sequence 2415

CCGGGCAGGTCAAGCTTCGACCCACGCGTCCGAAAAAAAAAAAAAAAAAGTTTGTTGGAGA
CCGACTGGGGGTGAGGGGCTGGCAGCAGGAGACAGATAACANGTTCNCTCAGAATGCAGA
GT

Sequence 2416

ANGTTTTTTTTTTTTTTTTCANTGCTTCCCAAAGCTGCGGACATAAGGGTAGCTGANCTG
GACTCTGNCCTTGCTGAAGACTTGGAGATGTCTGAAGTCATAACTGGGGNGACCTCCTTG
GTCCAAAATGTGCTGCCCCCTATGAATTCCACATCAGGAGTTGTAGGAGATGAGGTTAGA
GGGATGCTTGGGCTCATCTGGCTTCCTTCAGCATAGCCCGGACGCGTGGGTCGAAGCTTG
ACCTGCCCGGGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTTTTT

Sequence 2417

CCGGGCAGGTTTTCTTATGAGTGGGAGGTGACTGATCGTGGAGGTGGATTTCTTATGAGT
GGGAGGTGACTGATCGTGGAGGTGGATTTCTTATGAGTGGGAGGTGACTGATCGTGGAGG
TGGATTTCTTATGATTGGCTTATCACCATCCCTCCTTGGTGCTGTTTTTGCAACAGTGAG
TGATTTCTTGTGAGATCCGGTTGTTTAAATCCAGAGGCACCTNCCCCTACCCTCTAGCTC
CCATTCCTGCCATGTAAGACACCTGCTCCCCCTTTTTCTTACCCCATGATTGGAAGCTTT
CTGAGGCCTCCCCAGAAGCTGATGCCAGCCCTATGCTTNCT

Sequence 2418

CCGGGCAGGTCTTCGACCCACGCGTCCGCACATTTTGATGGTCAGTCAATAACTTAAGCA
GNTACCAAAATACTAGGTATCCAAGGAGCGAGAGGTGGGCCGAGCATAAGAAACACATTT
CTNATGGCACAGCTCTGCCAAAGCCCTGCAGAATCATTTACACATAGGTCTTTGGTTAGT
AGCCCCTGGCACAGAANTCTGATCTTAAACAAATATTGTCTATAATCAAGTAGAGCAATG
CAATTAAAAAAAAAAAAAGCACAGGNTTTTGGGGCCATNGCTGAAATCCCAGCCTTGCTA
TTTTGCTTGGCTGNGTGACCGGGGTTTCCT

Sequence 2419

AGGTGTACAAGCTTCGACCCACGCGTCCGGGATGAGTTTGTATGTGTAAAGTGCTTGAAA

TABLE 1

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CAGTGCCTGCCACATACTAAGTGTTGGATAAGTGTTTGTTATTAAAAAAAAAAAAAAAA
AAAGTTGCGGCNCGGCCGCCCGGNCAGGTACTGGCGTGGATTCTGCATANTGGNGATCAC
ACGTTCCACCTCATCCTCAGTGAGTTCTCCCGCCCTCTTGGAGAGGTCAATGTATGCTTT
CNCTCAACACCACATGAGCATATCTTCGGCCCACACCCTTTAATGGGCAGTGATGGCAAA
GGCTATTTTCCGCCG

Sequence 2420

AGGTATTCAACAAGGGCCCTGAGAGAGGGACAGGCAGCCCCTGTGAATCTTGCTGTTCAG
CANAGACAGGANTCAGCACGTGTGAGGGCAGCAGGGAAGTCTTCCTGGAGGAGTGAGACC
TGGCGATGAGGAGGCACGGCAGGGAGGTGGAACAGGCAGGAGAGACTCTTCANGAATTGA
GGAGATAGAATAGAGGACACTAAAGCCTTAGAGAGGCCAGGGGTGGTGGCTTGGCAGGAN
CATCGCTTGAGGCTAGGAGTTTAAAAGCAAGCCTGGGCAACATATCCGAGACCCCCATCT
CTAAACACAAAAAATAAAAAA

Sequence 2421

CCGGGCAGGTACCCAGTAATCACATAAATTCTGCAATCATCTGTTTATTTAGCTTAACTG
TTTTTTTTATTNGTTGAAGNTGTTGTTGTNATTTCAGTCTTTTTTCTTATTGGGGTTGAC
CAGACTTGGGTAAAATCTGTAAGAAAAGTNCCATAATTATGGGGGGAAGATTTCCTCTTG
AATTGGCTTAAATNCCTGTTAGCTGAAAAAAAAAAAAAAAAAA

Sequence 2422

CCGGGCAGGTCTTNGACCCACGCGTCCGAGCAAAATTCAACTAAAAATACAATCTGGATT
CCATAGCCAAGGGTTTTATTTACAATNTCCTAGTAGGAAGTCTTTATTTTAGCTTTCAAT
GTGTTGAACTTATAAGGAAATTTAACGTATACATGAGTATTATATTTATGGAATGTGAAG
ATATACAGAATGGAAATGGAAAATAATGTTAATTCGTATTGACTTTGAGGAATCTTANAA
TCATGTAGCCCTGTTGCAACAAGAAATAGGGAACTTCTGAA

Sequence 2423

AGGTCAAGCTTCGACCCACGCGTCCGGTTTGTTTTTTTCTTACGGCAACTCAAAGCAAAG
AGCTGGAGGAGCCAGCCATTATAATTGCTTACTCTCATCGCTTAGCGCCCCAGGTGGGAT
GTGTTTCCAAAACACATTTTTGTATTTATAAGGAAATGTAGTTAGGATTAATTTTATTGT
CCTAATTAGAACTCACATTTTGGTTAAATCCTCAATTTCATTAAAAAAAAAAAAAAAAAA
AAGTGCGGCCGGCCGCTCGACCTCGGC

Sequence 2424

AGGTGCTTCGACCCACGCGTCCGACTTAATTGAGAAGGTGGAATCCTCCTATCCCTGAAC
TCGGGGGAATGGAATCTCGCTGATCTTCCAGGACTAGCTCCCTGATCATTCCAGCCCCTC
TGAACAACAGGGCCCCTGGAGATAGAAGTAGTCCTATTTCACCCCAACTACAACATTAAT
GGGAAAAAAGAAGCAGGAATTCCTGAATTTTATGACTATGACGTTGCCCTGATCAAGCTC
AAGAATAAGCTGAAATATGGCCAGACTATCAGGCCCATTTGTCTCCCCTGCACCGAGGGA
ACAACTCGAGCTTTGAGGCTTCCTCCAACTACCACTTGCCAGCA

Sequence 2425

AGGTACAACTTCTCTTTTTTGGAGTTTTACTTGCTTCTATCAAGAAAGACAATTTTCCTG
TTTCCATGACGTTGGAGTTTGGCTCACTTCCAACAGGGAAAAGGAGTGTTTTTTTTTGTT
TTGTTTTGTTTTTCCTGCTTCTTGAATGGTAGAGAGCAGTCTATAGCCAGAGACTCGTCC
CTAGGTAAGTAACTGAATTGGGGTTTGTCTTGGTTAAAGTTAAGATTAACGACCAACTGG
TCTTAATTTCTCCTTACCATTAGAGCACTCAGTTATCATATAAATTGCGCCATTGTTTGT
TTTGCCTAA

Sequence 2426

AGGTCAACCGCCAGGGTCAAACGGAACACAACCCACTCTCAGGAAGACATCCCTAACACA
AATCCAGGGACTTTGTTTCTTAACCTTAAAATTGGAAACACTTCTTGCTACCAGGGATGG
GGGGTGGGGCTCAGCAGTTTGGGGAAACGGAGTGGGAGTCTTTTGCTGAACCGGACGCGT
GGGTCGAAGCTGGACCTGCCCGGGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTTTGAG
AGTGGCTATTTCATTAANATTTAATAGTTTTTTTTGGACTAAGTAGTGGAAAAACTTTTA
TACTTAACTGAGACATTTTGTCAAGGCTAAAAAAAAGT

Sequence 2427

TABLE 1

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AGGTACATCCCACTATTTCTTTTCTTTTAGCTAGAAAGGTATAACGTTAAAACCCTTTTA
CCAAATAAAATGATTTTATTTAGAAAATGCCGGGCACTAAAAAAAAAAAAAAAAAAAAAA
AAGTAC
Sequence 2428
CCGCGGTGGCGGCCGAGGTACCTATTTTGTATATGTGAGATGTTTAAATAAATTGTGAAA
AAAATGAAATAAAGCATGTTTGGTTTTCCAAAAAAAAAAAAAAAAAAAAGTGCGGCCGGC
CGCTACCTGCCCGGGCT
Sequence 2429
AGGACAATGCTGTAGATAATGCAGCCCATGCAATACACCCAAGAACACTAGAGTCCTACA
CCCAAGTACAATATGATAAAGCAGCCCTCTGCAAGTGGTGCTGGATACCACTAAGAAGTC
TACTGCAGCCATGTTGGTTATGATTTTCCATGCAGAAGGGTACAGTTAGTTCATATTTAT
GTATTGCACATAATCATGCTATTCAGCATTGATGCTATATTGTATTATGTAAATAATAAA
AGCCATGTACAGAGGGAAAAAAAAAAAAAAAAAAAA
Sequence 2430
CCGCGGTGGCGGCCGAGGTATTCGACCCACGCGTCCGTAGTTTTTATCTTTGACCAACCG
AACATGACCAAAAACCAAAAGTGCATTCAACCTTACCAAAAAAAAAAAAAAAAAAAAAAA
AGTGCGGCCGNTCTAGAACTAGTTGGATCCCCCGGGCTGGAGGAATTC
Sequence 2431
CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTGAGTCGACCCACGCG
TCCGAGTCAAGAGAACAGCACATTAGTTCCAGAAGAAAGATGGAAATTCTGAAAACTGAA
TGTCAAGAAAAGGAGTCAAGAACAATTCACAGTATGAGAAGAAAAATGGAAAAAAAAACT
TTATTTAAAAAAGAAAAAAGTCCAGATTGTAGTTATACTTTTGCTTGTTTTTCAGTTTCC

Sequence 2432
CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTGTTCGTATTTCTTATTCT
ACAACAAGGGTCAGCCTACAGGCAAAACACATCCCATTGTCATTTTTTTGTAAATAAAGT
TGTATTGGAACATGGCCACTCTCATTTGTTTTCTATTATTTATGGCTGCTTTCACTTACA
ACCTGAGTGGTTGCCGCAGAAACTGTATGGCCTGCAAAGTCTAAAATATTTACTATGTAG
CTTTTTCTTTTCTTTTTGGAGACAGTGTGCCACTCTATTGCCCAGGCTGGAGTGCGGTGG
TGTGATCATGGCTCATTGCAGCCTCAAACTCCTGGGCTCAAGCAATNCTCCCGCCTTGGT
CTNCCAAGTAGTTNGGGACTACAGGGCATGAGCCCNCCATACCCCGGNTAATTTT
Sequence 2433
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AATTTAAGGTTTAAAATTCCTTTGCCAAATCAAAAAAAAAAAAAAAAAAAAAAACGNT
NGCNTGCCNGGCCGGCCGGCCGNNCTTACTTTTTTTTTTTTT
Sequence 2434
CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCTTGAGTCGACCCA
CGCGTCCGATAAAACACCGCCTTCAGTGTAAAAATTTTACATGGTATCTGAACAACATTT
ATCCAGAGGTGTATGTGCCAGACCTTAATCCTGTTATATCTGGATACGTGAGTATTTTCC
TGTTCCTTTTTTAATTAATATACTCCTTGCCACCAACCTTTATGTGGTTCTAAGAAAATT
GCTGAAATACTTTCTTTATTGCTTTTGAGATTTTACATTATAATCATTAACATTACTTTC
TAAATTATTTTAAAAATATATAAATCACATGGATTAAAAAACTTTTCATAACTTGAAAAT
TTTCCTTTAGATTAAAAGCGTTGGTCAGCCTCTATGTCTGGGATGTTGGAGAAAACAATC
AAGGAGGCAAACCATTAATTATGTATACATGTCATGGACTTGGGGGAAACCA
Sequence 2435
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTTTTTTTTTTTTTTTTTTAATG
GTTAAGCTACTCAAATTGTTTTCAGAGCCAGAGTAAAAACCAAAAAAAATACTCATCAAT
ATCAATTGCCAAATTCAGTCTGAAAACATTTCACACACAGCTTACCCAAGTATAAAGCTG
CTGGGGGGACTTCTGAAAANTTGGCAACATTCATTNGGGGCTTNGAAATGCTTTACAAGG
GGAAGGNTTTTTTAANGCAGGGCTTACNTGGGTTTTCCCCCAAGGCCCCTGGNNANGTTT
NCCNAAAATNAAAGGGGGGGGCCCCCCCTNGNNGNGGGTTTTTTCCCCNNNCCNCCNNAN

TABLE 1

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CATNANGGGGNGNGCCCCNCNCNNTTTTTNTTTTTTAAAGGGGNAAANTTTTTNCGNGNN
TNTGAAAAAAGGGTTTTTTTAAAACCCCGGGGGGGTTTNTNTNNTTTTTTTAAAAAAATA
TTTTTAAAAAGGGGGGGGGNNGNTGGGNNTTTTTNTGGNGGGAAAANNTNTNACACCCC
NNTAAAAANGGGGTTTTTTNCCNNATTTTTTTTTTNCNNCCCCAAAANANGGGGGGGGGG
GGGGGGG

Sequence 2436

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTCATTTTATTTTTAC
GTTGTTACGATATGGGGAGTAGTGTGATTGAGGTGGAGTAGATTAGGCGTAGGTAGAAGT
AGAGGTTAAGGAGGGT

Sequence 2437

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGC
GTCCGGCCTGGGACAGATCCTTAGTCTTTCCTTGACTTTTATGACCCAGAGGTGAAAGGC
CAAATGTTTTGTAGAATGTCCTTAAACTTGGGTTTATCTGAGGTTTCCTTGTGATTGAAT
TCAGGTTAGACATCTTTGATGGGACTGTCATAGAACTGATGCTGTGTTCTAATTGCATCT
TATCAGGTGACTTATGATTTCTGTTTGTCCCATTATTGATGCTGTTACTTAGATCACTTG
ATTAAGGTGGTGTCTGCCTGGCTTCTCCAGTGTGAAATTTCTTTTCTTCTTTGTAATATT
TTGTGGGGGAAGTAACTTTAAGACTATGTAACTGTTTCATTTCTTTTCTTTTCTTTTGA

Sequence 2438

TACTATAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCAC
GCGTCCGAAAGATTCTTGGCTGAGCATGGTGGCTCATGTCTGTCATCTCAGCAATTTGGG
AGGCAAGGGCAGGAGGATAGTTTGAGCCCATGAGTTTGAGACCAGCCTGGACAACATAGT
GAGACCCCATCTCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANGTGCGGCCGGCCGC
CCGGGCAGGTACATGACTATATCAGGATTTCAAATTGAGGAAACCATTGACCGCGAGACT
TNTGGCAATTTANAGCAACT

Sequence 2439

CCGCGGTGGCGGCCGAGGTACCTATTAAGCTCATGAACCATAGAGGTATCTCGGTGGCCC
CTCATTACCATCTGCTGTTCTTTCAGCTGTTTAGCTACATCTTTGGCTGAGGAACCAGAC
ACTTCAATCCATGTCTTAGAGAAGAATGCACATGACCCCAACATGAAGATGATATAAACA
ACGACATGGACAG

Sequence 2440

TNCTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGGCCGCACTTTTTTTTTT
TTTTTTTTTGAAAATAGTTTATTATTTTATTGTTTTTTGTTTATACATGTTAAGTTTCAA
CTTTCAATAATAAAATTCAATAAATTTGATTCCTTAATCATAAAAACTTGCTTTACA

Sequence 2441

CTATAGGGCGNTTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACCC
ACGCGTCCGATAATTTATACTAAATTTAGTAAAATGGACTTCTTATTCAAAGCATCAATA
ATTAAAAGAATTATTTTAAAAAAAAAAAAAAAAAGTGACCT

Sequence 2442

GGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGACAAGCTTCGACCCACGCGTCCGCTT
AATAGCAAAGGATAATTGAAATCCCAAACTTACAAGGTTTTCAACAAAAGTGAAGTTTGC
TTAAAGTTAACAGTGTAACATGTATTATGGTAACTTCTAATCTTGTGGCCTTAGACAGTC
TAGTCCAAAGGCATAAAGAAAGTTTGCTTTAAAAAAAAAAAAAAGGAATGGTTATCTTCA
AAAAAAAAAAAAAGTGGGGGGAGACAGAATTTATGTAAAAAGAGTGTTATATGGTAAATT
CTTGTCCTGAAATAAACTAACTGGTGTTTAAAGAAAAAAAAAAAAAAAAAANGT

Sequence 2443

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTT
TTTTTTACCTGAAAATGCTTATTCTAGCTTCACATTTGATTGTTTGGCTAAGAAGAAAAT
TATTTATTAGACTTAATTTTCCTCACGAGTTTAAAGATTGCTTCAGATCTTAAACTTCTA
ATGAGGGAAAGCTGAGAAGTCCAATGCCATTCTGATTTTGGCAACTTACAAGTAGTCTTT
TTTTNNNTAGACCCTTTTCAGGACCTTTTTTTTTTTCCTAAGTCAGGGGGTTTNCAAAAC
CTTTCNAAAGGGGNTNTTTTTTNGGGNNNCCTGGGCCGGTTTTTAAAAANTAGGGGGGAN

TABLE 1
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CCCCCCCGGGGNTGGGGGGGAATTTGATNTNAAAGTTTTNTNGATCCCCGCCCCCCNTGG
GGGGG
Sequence 2444
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TAATTTCTTTGGAATATAAGTCACTTTTTGCAAGCTAAAAAATAGAATCAAACTAAGGTG
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TACANGGGGCTAGCAATACCGGNTNTAAACTNTTAAATAATANCCCTNCATGGTTTTATT
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GANTTCGATATTNAACTTTTTTNGAAACCCGCCCNCCNCNNGGGGGGGGGGCCCCGGGCC
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Sequence 2445
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AGCTAGGCATGGGAGGGAACAAGGAAAACATGGAACCCAAAGGGAACTGCAGCGAGAGCA
CAAAAGATTCTAGGTTNNTGCGAGCAAATGGGGTNGGNGGGGNGCTTTNNTTGGNTAAAN
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ANCCCCAANNNGGGGGGNNTNTTTTGTGGGGGGGGTNGNNTNTTTTGGGGGGACNCAAAA
ANGNNNNTNTTGGNCCCCCNAAAAAAAANTTTAANGGCNTTTTTTTTTTTTTTTNTAAAA
AAAANNNAAAGTTNNNTTGCCCNANNNCNCCCCTNTTTTTTTTGNGGGGGGNGGNGAAAA
AAAAAAANNNGNNGNCCCCNNNTTTTTNNNGGGGGGGGCCCNAANTTTTTNTCNNTNAAA
AAAAAAATCTCCCCCC
Sequence 2446
CCGCGGTGGCGGCCGCCCGGGCAGGACACAGGAGGCCTTATTACTTTTAAATTATACAAC
ATTTTTTGCTTAAAATTTTTTTAATAAAATTTTTTCTTTTATGACTTTTGCAGACAATTT
TTTAAACATGTTTTAACTTTTTGACTTATTACAAACATTCTTTTCTTTAAACAACCAGTT
AATTTATTTCAGGACAAGAATTTATCATATAACTCTTTTTATATAAATTCTGCCTCTCCC
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AGACTGTCTAAGGCCACAAGATTAGAAGTTACCATAATACATGTTACACTGTTAACTTTT
AGCAAACTTCACTTTTGTTGAAAACCTTATAAGGTTTGGGGATTTCAATTATCCTTTGCT
ATTAATAAGACCTTGTTCAGTCTAAATTAACTTAAA
Sequence 2447
NCACTACTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCAC
GCGTCCGGGAGAATTACCCGAAAAACAACCACACTGCTTCAATCCTGGACAGGATGCAGG
CAGATTTTAAGTGCTGTGGGGCTGCTAACTACACAGATTGGGAGAAAATCCCTTCCATGT
CGAAGAACCGAGTCCCCGACTCCTGCTGCATTAATGTTACTGTGGGCTGTGGGATTAATT
TCAACGAGAAGGCGATCCATAAGGAGGGCTGTGTGGAGAANATTGGGGGCTTGGCTGAGG
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NNTAAGGGTNTCTTNGGTCTTTNTNANNNCCTTCNTTANTTTGGGGGGNG
Sequence 2448
ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGCCGCACTTTTTT
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GAACTTTCCTTTGGATTTGATCAAGTTGGATAGAGTTGATCAAACCCTGATCAAGTTGGA
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AACAAAAAACAGTTAGGCAAAACAAACAATGGCACAATTTATATGATAACTGAGTGCTCT
AATGGTAAGGAGAAATTAAGACCAGTTGGTCGTTAATNTTAACTTTAACCAAGACAAACC
CCAA
Sequence 2449
TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTACAAGCTTCGACCCACGC
GTCCGCGAAAGCGAAGAAGGAAGCTCCTGCCCCTCCTAAAGCTGAAGCCAAAGCGAAGGC

TABLE 1
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TTTAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAAGAAGAAGATCCG
CACGTCACCCACCTTCC
Sequence 2450
CCGGGCAGGTACTTTTTCTAATATACTTTTCNATTACACATGAAAGCCATGACAGGAACT
GAGATAAGATTTCTTTGTTTTTTGAAACATCTTATCTACTAANAAAATTTNNAAAATCAT
TTNACTTNAAAGCTATTAGTAGTTTTATACTCNCTTAATAAGTATTAATAAATTTACATA
CTNGACTTAGTAANCTAAGCAATTTGGNTAACGTNTTTNTTTATTNGAGNGANTTTTTGC
CANTTGGATATTTTTNCTACCTTACTATTACNTTATAAATATATTTCCCCAAATATATCN
TTCCTCTTTAAAAANTATGTTTTGNCAACNAACCTTNAAA
Sequence 2451
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCAAAGTTATTGCAC
ATACACTTGTTTACTTTGTATGTTTTGCAGGATTAAACTTTGTATAATCTTTTTACAAAA
TTTTTTTTTCAGTATGCAAGCTTGCAAGATGAAAATAAAACCTGTTTGCCTGATAAAAAA
AAAAAAAAAAAAAAAAAAAAAAATGT
Sequence 2452
CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAGCTGATTACACCAACTT
GAATGAAACGACTTCTCTTGTGAACTATCAAGGGGCCGCCAGAATCACCTCTGCAAGTAT
TGGGGTCAGCATAGGGACTCACTCCTCCAGTACAAAGGAACCGAGGGGTGACCACCTCTG
AGATGTCCTTGACTTTGTCATAGCCTGGGGCATATTGAGCATCTCTCTCACAGCTGCCTT
TCTTATCCCCATTCTTGATGTAGACCGGCCGCCCGGGCAGGTGCACATACACCAAATGTC
TGAACCTGCGGTTCCTCTCGTACTGAGCAGGATTACCATGGCAACAACACATCATCAGTA
GGGTAAAACTAACCTGTCTCACGACGGTCTAAACCCAGCTCACGTT
Sequence 2453
CCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTAAGAAATAGGGTCTCACTCTGT
CCCCCAGGCTGGAGCCATTATAGCTCACTACAGCTTCTGACTCCTAGGCTCAAGGGATCC
TGCCACCTCAGCCTCCCTGGTAGCTGGGACTATAGGCAGGAGATCGCTTGAACCGGGAGG
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ANGGGGGGGGTTTTTTTTTNGGGGNGNGGGGGGGGGGNAAACNCAANCCCCCCCCNNTTT
ANAAAAAAAAAGGGNGCCCCCCCCCCCNNGNGGNAAANGNGNTNTTNNTAATTTTTTTTT
TTTNCCCCCCCCCCCCCCNGGGGGGGGGGGN
Sequence 2454
GAGACACAGTCTCACTCTTGCCCAGGTTGGTCTAAAACTCCTGGGCTCAAGCAATCCTCC
CGCTTTCAGCCTCCCAAAGTGCTGGGGTTACAGCCGTGTGCCACTGTGTCTGGCCCTTTT
CTTTTTCATAGGAGAAGGGTTGTTGACTCCCAGGAAACGTCACCTGGAACCAAGAATGTG
AACTCAAGGACCCCCGCCTGTTGGCAGCTGCATTTACTTGACTCCTGTTCACTGTTTCTT
AGCCTTGTCCTTTCTCTCCTGCCAGTTCTAGGGGACACTGCTTCTCCTGGTTGACCTCAT
CAATGCC
Sequence 2455
CCGCGGTGGCGGCCGAGGTTTCAAGGACCAGCCTGGCCAACATGGTGAAACCCCATCTCT
ACTAAAAATATAAAAATCAGCCGGGCATGGTGGCATGTGCCTGTAATCCCAGCTACTCAG
GAGTCTGAGGAGGAGAATCACTTGAACCTGGAGGCAGAGGTTGCAGTGAGTCGAGGTTGC
GCTACTGCACTCCAGCCTGGACAACAGAGGGAGACTCTGTCTCAAAAAAAAAAAAACCTA
CAGCTGTTCAAGGACCAGCTGACAGGTCAAGTGTGGCCTTTTCTGGTCTTTGAACACATC
ATAGAAAGTGACAAATGCTGCAAAGCCATGAAGAACATGAACTATAAACGGGTAGACTAA
CTGCCCAGCTTAGACACTTATCTATGCCACAAAACAGCTGAATTTGTCACATTTATATAT
TGCAATAT
Sequence 2456
AGGTCTTCGACCCACGCGTCCGGTGGCTTATGCCTGTAATCCCAGCACTTTGGGAGGCCG

TABLE 1

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AGGCAGGCGGATCACAAGGTCAAGAGATGGAGACCATCCTGGCCAACGTGGTGAAACCCC
ATCTCTACTAAAAATACAAAAAGTAGCTGGGCGTGGTGGCACACGCCTGTAGTCCCGGCT
ACTCGGGAGGCTAAGGCAGGAGAATCGCTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCG
GAGACCACGTCGCTGCACTCCAGCCTGGTTGACAGACCGAGACTTCTTTTTCAAAAAAAA
AAAAAAAAAAAGTGCGACCTGCCTNGGCGGNCGGTTTAAAAAATNGTGGATTNCCCCGGG
CTGNAGGAATTTTCGATNTTCAAAGCTTTATTNNATTACCGTNCGACCTTTNGGGGGGGG
GCCCCGGTACCCCAACTTTTTT

Sequence 2457

CTATACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGA
CCCACGCGTGCGCAATTTTTAGGCCCACAAGGAGTCAAGCACCTCAAGGAGATCTTCAGT
TTGAACTTGGTGTAGACACAGGGATACTGATGAATCAATATTCAAATTAGCTGTTACCTA
CTTAAGAAAGAGAGGAGACCTTGGGGATTTCGAGGAAG

Sequence 2458

GCTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAGAGTCGGGAT
GCACAACTTCAACCACCGACTTATCAATGCAGCCGCCTGTGTATTGCAATTGGCCGTTAC
CTTAAGCACTGAGCCACCCGGGTTTAGTTCAGCCATTTCAAGAAGTATATTTAACGTCGG
TAGTTCTGCTTTATTAAAATGCAGCAGAGGTACCTGCCCGGGCGGCCGGCCGCACTTTTT
TTTTTTTTTTTTTTTAATGAAATTGAGGATTTAACCAAAATGTGAGTTCTAATTAGGACA
ATAAAATTAATCCTAACTACATTTCCTTATAAATACAAAAATGTGTTTTGGAAACACATC
CCACCTGGGGCGCTAAGCGATGAGAGTAAGCAATTATAATGGCTGACTCCTCCAGCTCTT
TGCTTTGAGTTGCCGTAAGAAAAAA

Sequence 2459

CCGCGGTGGCGGCCGCTACCTGCCCGGCGGCCGGCCGCCCGGGCAGGTCTTCGACCCACG
CGTCCGAACTAATTGGCTTTTTAGAAACACCCCACAAAAGCTCAGAAATTGGCTTTAAAA
AAACAACCACCAAAAAAAATCAATTGGCTAAAAAAAAAAAAAAAAAAAAAAGTGGGCCGC
TCACCT

Sequence 2460

ACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTCTTCGACC
CACGCGTCCGGACAGCTCGTGTCCACAGGGGTCATGGGGTCTCTTGCTGCTAGGATTCTG
GAGTTTCATGGTAAGAGCGGGCCACTCCCCACCTATTCAACTCACCCCTTCCCCAGGAGT
TAATGGGGGCTAGTAAGGAATGCTAGTGCTTGGAAGCCCTGTGCAGGCTTCTGAGATTCC
TGCCCCCTCAGCCCATGCTCTGCATCCTCCCTTCATCCACCCTCAATGTTTTCCTTCAAA
AGATCTGCTCAGAGTGTGCCAGTCTTCCCAAATTCCTGGTCTCTCCATGAGAGATGTTCT
TCCTGGCTGCTTCTAGTTGGCCATCTGGTCTTGAGTCCTNTGTACCTCGGCC

Sequence 2461

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTGGGTTTCTCTTTGAAAGNTTATTGNTTTCTTTAAAAAAAAAAAAACCTATACCT
TTTATATTTTACATTCACCTNTCANAATATTTAATGGNACCTGCCCG

Sequence 2462

ACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAGCAGGAT
TACCATGGCAACAACACATCATCAGTAGGGTAAAACTAACCTGTCTCACGACGGNCTAAA
CCCAGTAGAAACAAAGT

Sequence 2463

ACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAAAGTTA
TTTTAGTCATGAAATTTTATATGCAGAGAGAAAAAGTTACCGAGACAGAAAACAAATCTA
AGTCGA

Sequence 2464

CTACTTAGGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGAGGTTTCAAGACCAGCCTGGC
CAACATGGTGAAACCCCATCTCTACTAAAAATATAAAAATCAGCCGGGCATGGTGGCATG
TGCCTGTAATCCCAGCTACTCAGGAGTCTGAGGAGGAGAATCACTTGAACCTGGAGGCAG
AGGTTGCAGTGAGTCGAGGTTGCGCTACTGCACTCCAGCCTGGACAACAGAGGGAGACTC

TABLE 1
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TGTCTCAAAAAAAAAAAAACCTACAGCTGTTCAAGGACCAGCTGACAGGTCAAGTGTGGC
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TGAACTATAAACGGGT
Sequence 2465
CCGCGGTGGCGGCCGAGGTACAAGATAGGTATGGATTCCAGNCTGGAGAAACCCNTAAAC
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Sequence 2466
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Sequence 2467
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Sequence 2468
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Sequence 2469
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Sequence 2470
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CCCTTTTTTTTAAAAAANGGGAAAAAACNNTTTTCCNCGNCCNANTTTGGNNTNTATTTN
AAATTNGGCCCAACCCCCCCGGGGGGNGGGGGGCCNTTTTGGNNTTTTTGGCCCCNNNTT
CCCCNTTTTNTTTTTTTNTANAAANNANGGGGGGGGGGNGGG
Sequence 2471
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CAGACAGGGCAAAGAAAATGGGACTGGTTGACCAACTGGTGGAACCCCTGGGACCAGGAC
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Sequence 2472
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Sequence 2473
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Sequence 2474
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GAAAGAAACAGACCAGTGGTATGGAGTATAAGAAAACTGATGCACCTCAACCGGATGTGA
AGGAAGAGGAAGAAGAGAAGGAAGAGGAAAAGGACAAGGGAGATGAGGAGGAGGAAGGAG
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AAACACTGAAATAAAATAGTTTAT
Sequence 2475
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TCCACCCACCTCAGCCTCCCAAAATGCTGGGATTACAGCGTGAGCCACCANGCCCGGCCA
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Sequence 2476
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Sequence 2477
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Sequence 2478
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Sequence 2479
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Sequence 2480
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TTTGACCTTGGAGCTTTGTACCTGCCCG
Sequence 2481
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TAATCCAATTTTTGGGC

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Sequence 2482
AGGNCGACNTTNTCACAGGCAGNNAAACCGGCCAGNTNAAAACACTATGCTANCTCGCGG
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Sequence 2483
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GACCTTCCCTAGCTCAGCTGAACCTCCCATCTCAGGACACCATTGCCTCCACTGCCCATC
CTGCATCTGCCTGCCTACCCCAAAAGT
Sequence 2484
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TTGCCACCAGTAACATACTTGGTGCCACATGACTAGGATATGTTCTCTAGTGCTAACATG
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TNNAAAGTNCTTTTGTCTTAATTGTATTTAAAAAAAAAAA
Sequence 2486
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Sequence 2489
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TCGCCCTTATAAGTGAAGTCCGNAAATTACGCGCCGCCTCANTTGGNNCGGTNAGTTTTT
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Sequence 2490
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Sequence 2491
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TCTTTTTCNNGGGTGAAAATAAAATGGGTTTTTTTCAANTTCNAACAAAAANAAAAAA
Sequence 2492
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GAATCAGACATTAAGGGGTCCAGAGACCATAAAGTGTGACAACCACCACTCTTCACAACC
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Sequence 2493
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CCACTTAGGCACAAGAAGGCTCATGAGGATATC
Sequence 2494
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Sequence 2495
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Sequence 2496
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Sequence 2497
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CGTGCGGCGCCCTGACCCGGCCTCACCATGTTGGTGCTGTTTGAAACGTCTGTGGGTTAC
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Sequence 2498
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AGGCATNGCTACNATNAAGTCTTTCCNTGCTCAGAATCTCC
Sequence 2499
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Sequence 2500
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Sequence 2501
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Sequence 2502
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Sequence 2503
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Sequence 2504
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Sequence 2505
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AACCATTGTTATTTCCACTTTTAAGTCCTCAAGAGATGAGAAAAGGGAGGTAAGGCTTCC
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ATACAATTAACCTANAT

Sequence 2506
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TCACCTNNACACTGANGGCCCTNGGTGNGAAGATGAACCTTNCACCGTCTNTANTGCATT
CTGGAGTGCAAAAATAAAATCCACTNAAGAGTCACAAGGCCCGCTGTGCATAATNGGNTT
CACTTTTACCTTTTTTT

Sequence 2507
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TCTAGCATGATGAGAATGTTCTGGAATTAGACAGTGGTAACGCTTGTTCAACACTGCCAG
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CGTGGATCACAGGCTCTGTTTTANGATAGANAAAGGACACAAGGNGTCCCCC

Sequence 2508
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CCCAAAACCAAAAAAAAAAAAAAAATAAGGTACCT

Sequence 2509
GCCGGGCAGGTACTACNTCAGCAATTTCTCCANNGNGCNGNNCGACAGCATATGGCACCA
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GTTTGCTAACAGNGCATTAAAGGAGTTCGAGCAGGTGCCGGGACACTTGACTGATGAGCT
CCACCTGTTCTCCCTTGAGGACCTGGTCAGGATCAAGAAAGGGCTGCTGGCACCCTTACT
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GGGCTTTATTTGTG

Sequence 2510
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Sequence 2511
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AAAGCGTTCANGCTNAACACCCACTACCTAAAANATCCCAAAAAAAAANAAAANAAAGNAC
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GATAAAGACACTTTTTCAAAA

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Sequence 2512
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GGTAACTCACAGTGGAGGCCCGCCTGCACCCAGGTGAAATAAACAGCCTTGTTGCTCACA
CAAAGCCTGTTTGGTGGTCTCTTCACACAGACGCGCATGAAAGGGAAGACATACAAAAAC
AAGGCCTCTGAGGTAGGTACCT
Sequence 2513
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GCGCTTTCTTTCCTTTTCTCCTGTATTTTTTGGTATCTTNTTGAACACAANAATGCTCTG
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Sequence 2514
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Sequence 2515
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TNGNCAAATNNGGTACCTGCCCG
Sequence 2516
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Sequence 2517
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GTGAGGAAGCAGCTCAGAAGAGGAAAGGAAAGGAGCCAGGCATGGCTCTTCCTCAGGGAC
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CTTCACAGAGGGCTTTGTACCTGCCCG

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Sequence 2518
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TAGTANAGACGGGGTTTCACCATGTTGGCCAGGCTTGTCTCAAACTCCAGACCTCAAGTG
ATCCACCCGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGCGAGTATATGCTTTTAAA
GGGTATCCAATCAAGCTAACTATGGTGATGGAATGTCTCCAGTTCCTCTGTAATACACGT
ATCGTCCAGCCCGCGTACCTGCCCG
Sequence 2519
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGAGA
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CACACCTTGCACAGCCCTTAAGCCATTTAACCCTGAGTTGACACAGCACATGTCTCAGGG
AGCACAGGGTTGGGGGTAGGGTTACAGATTAACAGCATCTTAAGGCAGAAGAATTTTTCT
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GAAGGCAGGTATTTTTAGAAGGAAACACCAGAATCACACTTAAGTCACTGCAAAGGCATT
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Sequence 2520
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Sequence 2522
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Sequence 2523
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AAGATCAACATGGTACCTGCCCG
Sequence 2524
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GTCAAGAAAATTTTTTA
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Sequence 2526
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Sequence 2527
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CGTACCTGCCCG
Sequence 2528
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CGGCTGNAGGAATTCGAATTTAAAGCTTTATCGATCCCGCNNCCTCGANGGGGGGGNCCC
G

Sequence 2529
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Sequence 2530
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ACGGGCCCCACCCAGGAGGACCTGTACCT

Sequence 2531
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Sequence 2532
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Sequence 2533
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AAGTGAATGTTTACCATGAAGATAAACTGTTCCTGACTTTATACTATTTTGAATTCATTC
ATTTCATTGTGATCAGCTAGCTTATTCTTGTGTACCT

Sequence 2534
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Sequence 2535
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Sequence 2536
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Sequence 2537
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Sequence 2538
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Sequence 2539
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Sequence 2540
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CTTCTGGAGCCATAATTTATTTTCTCCCAGCAACCTCCT

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Sequence 2541
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AANGCCCAAAATTGGGATAAATAGCNCTGAAGAAAAAAAAAAAAAAAAAAAAA
Sequence 2543
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Sequence 2546
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Sequence 2547
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Sequence 2548
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GCCCCC

Sequence 2549
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AAAAAA

Sequence 2550
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GCAGGGCATGAGGACAGCAATGGTTGTATCAACTATGAAGCGTTTGTGAGGCATNTCCTG
TCGGGGTGACGGCCCCNTGGGNGGACNNCCCCCANNGGNCNTAAANGGGTNANAACCNTT
CCNGTTTTCCCCAAANGCCCGNCCCCTTTTCCNTTGGGANAANTTTTTNTTTCTNCCNCA
AAANGTTNCCCTAGGNTTTNTTGTCNCANNAANTTTCCCATTTTGTTTNTNTGGGANGAT
GTTTNGCCCGTCANNTTCCACCAAATAANANTTNCTTTTTGGNAAAAAAATNNTAAANTN

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NNNNCNTNNNNNNAAAANCCCCCCCCCCCCCCCTATNAAAANTNAGGGCCCCCCCCGGNNN
GNAAAAAATAANANTAAATTTTTTTNCCCCCCCCCNCNCCNGGGGGGGGNGGCCCCCCCCNCT
TTTTTTTTTTTTNTAANNNANCCCCCCCCCCC
Sequence 2551
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTGTCTCACCACATCCTGGCTCCA
GTGTGGATGCAGAGAGAGTGTGACAGAGGATCTGCCTGCGAACCACCTGGGATTAGTCAA
GTCCCAAGGTGCCCAGAGTGGGACTAGTTCTTCACAGTGTGGCAGCTGCACTAATCTGTT
TGTGAGGGAATATCCATTCCCTCACTCTACTCTCNTCATTATGGGAATTTNTTTTTGTTN
CAAAATAAANCCCTTTTGTATAGANAAAAAAAAAAAAAAAAAACCNCCCCCCCCNNTTNAA
ANAANGGGCCCCCCCCCNGGGGGGNGNANNNNTTNNAATTTTTTTTTTNCCCCCCCCCCCCNGG
GGG
Sequence 2552
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGGATCTTTTTTGGCAN
GAGCCCCAAGTAAAGCTGTCAATCCTGATGAGGCTGTGGCCATTGGAGCTGCCATTCAGG
GAGGTGTGTTGGCCGGCGATGTCACGGATGTGCTGCTCCTTGATGTCACTCCCCTGTCTC
TGGGTATTGAAACTCTAGGAGGTGTTTTTTNCCAACCTTNTTATTGGGATTNTTNTTTTTCC
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AAANGTGGTTCNNGGGNAAAAAAAAAAANTNTTTTAAAAAAAAAAAANATNTTTTGGNNNNNN
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TTTNNNTTTTTNCATTTTTTNNCCCCNNNNNGATAAATNCCCCCCCCCGGNNGCCTATATAAA
AAAAAAANCNCCCCCCCCCGGGNNAANAANTTTTNAAATATTTTTTTCCCCCCCC
Sequence 2553
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTTTTTTTTT
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GATCTCGGCTCACTTCAAGCTCCGCCTCCCAGGTTCACGCCATTCTCCTGCCTCAGCCTC
CCGAGCAGCTGGGACTACAGGCTCCCATCACCACGCTCGGCTAAGTTTTTGTAATTTTAG
TAGAGACAGGGTTTCACCATGTTAGCCAGGATGGTCTCGATCTCCTGACCTCGNGATCTG
CCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGTGCCAGGCCAATA
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AAGTATTCTTCAATAACATTCCCTT
Sequence 2554
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTT
TTTTTTTTTTTGAGACGGAGTTTCACTCTTGTCACCCAGGCTGGAGTGCAATGGCGCAAT
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AGTAGCTGGGATTACAGGCATCCACCACCGTGCCCAGCTAATTTTTGTATTTTTAGTAGA
GACGGGGTTTTGCCATGTTGGACAGGTTGATCTCAAACTCCTGACCTCAGGTGATCTACC
CTCCTCGGCCTCCCAGAGTGTTGGGATTACAGGCATGAGCCACCATGCCAGGCTGCTAAT
TCTCCTTTTTAGGNGAGTTAGGGGAACTGAGCCTCAAAAAACTTAAACGATTTCTCAAAA
AACACCTCAAGTGATAAAGTGGCCACATTGNAAAGGGAGTTTTTATCTTTTTATTGNNGG
CCCAGGGGTCATTGGACAAAATCATGCTACCTNTTGGATTTTAAAATATTCAATTGGCAA
A
Sequence 2555
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CGCCATCAACCCGCCAGATCAACCTGGAGCTCTACGCCTCCTACGTTTACCTGTCCATGT
CTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTTCTTCACC
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GGCCGAATCTTTCTTCAGGATATCAAGAAACCNAACTTGTNATTACTGGGAAAAGCGGGC
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Sequence 2556
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TTTTTTTTTTTTTTTTTTTTNAGACAGGGTCTCCCTNTGTCACCCAGGCTGGAGTGCAGT
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GGCCTNGGCCTCNANTTAATTTNAAAANGGGNGTTTGNTTTNAACCNCCGCCCCTTTAAA
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CCCCCCCAAAAAAAAAAA

Sequence 2557
ACTNCTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTTCTTGTCAAATT
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CGCACTCCACCGAGTCCTGTTGCATCTCTTCCGACATGTCCGCATTTTTGATCACGGCCT
TTCGGTCGCCCCGCGTACCTGCC

Sequence 2558
CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTACTGCTGAGGTCTNCAG
GACAGAAGNCACCTCCTNTGGTAGAACATNCATCCCTGGNCCTTNTCAGNCCACAGTTTT
GCCAGAAATATCCACANGAACAATGACAAGGCTTTTTGCCT

Sequence 2559
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTAGGGGACACGGTCTATCCGCAA
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GATCTCCAGCTTGAACTCACGGAATGGTTTTTCTAGGCCCTGCTCATAATACAGCTGCAG
GTAACCAGNGTCTGTCAGTTTGACGAANATCGGTCCCCAGTGCCTGGAGGACATGATGTT
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TCCAGGCGGGTGAGCATNTAGTTCAATCCAGGCTACTGGGTCATCATCAGGTAGAGTTGC
ACTGCCAAAGTGATCAGGGTCATTAATTTGGAGTTGTTTGAGTTTTTCAACAGCATCAGA
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TGAAGGGAATNTTNTTTGGCTTT

Sequence 2560
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CTAACACGGTGAAACCCTGTCTNTACTAAAATTACAAAAANTTANCCGAGCNTGGNNATG
GNNGCTTGNATNCCAANTTNTTCGGAAGCTTAGCNAGAAAATNGCTNAACCTTGGANGNG
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CCCCCNGGG

Sequence 2561
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ATGGGAGGGAACAAGGAAAACATGGAACCCAAAGGGAACTGCAGCGAGAGCACAAAGATT
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GGGGGTTNAAAAAAANCCCCNTNNTTTTTTTTTTTGNCCCNCCCCCANCCCNGGGGGGGG
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CCNCTTCATTTTTGGGGGGGGGCAAAAAAAAAAANCCCGGGCNCNCTTTNGGGGGGGGGN
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TTTTT

Sequence 2562
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TCATAGTTTTGAAGCCGGGGTTCTGAAATCTCATGACAGATCTCCAGCTTGAACTCACGG
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ANTATTGGCCNCCCGTAACAAGGGTGGGACCGNCCTTATCCAGGCGGGNGGGCTTTTTAG
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NAATTGGGNGGTNNTTNGGNGTTTTTCAACCCNNANAAAAGGGGGCCGGGGGGGTTTTTT
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Sequence 2563
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CTTTCGAGACCCAGCCTGGCCAACATGGTGAAACCCTGTCTNTACTAAAAATACAAAAAT
TAGTTCGGCATGGGTGGTGCACACCTGGTAATCCTAGCTACTCAGGAAGGTGAGGCAGGA
GAATCACTTGACCTAGGAGGCGGAGACTGCAGTGAGCCAAGATTATGCCAATGCACTCCA
GTATGAGTGACAGAGCAAGACTTGTCTCCAAAAAAAAAAAAAAAAA
Sequence 2564
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGGGAGCTC
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GGAAACGAGGTAACTGATGGACAGCCGAGGCAGCCCCTTAGGCGGTTAGGCCTCCCTTGN
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Sequence 2565
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TTTTNNNTCNGGGGNAAAAAAAAAAAA
Sequence 2566
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CCCCNNGGGNAAAAAAAAAA
Sequence 2567
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GGTCTTNGNNCTTNTGCCTAGGACNTNCTTTCCTAGGTANCCACATGCCTGCTCTCATTA
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CTTNTGACTTCT

Sequence 2568
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CTGCTCGTGTTGAATCTAGAACCGTANCCAGACATGGNACTGGAGGACGAGCAAAAGATG
CTTACCNAATCCGGAGATCCTGANGAGGANGAAGAGGAAGAGGAGGAATTAGTGGATCCC
CTAACAACAGNGAGAAAGCAATGCNAGCAGTTGNAGAAATGTGNAAAGGCCCGGNAGCGG
TTAGAGCTCTGTGATGAGCGTGTNTCCTCTCGATCACATACAG

Sequence 2569
CCGCGGTGGCGGCCGAGGTACATTATGTTTTCGTTTTCATTCATCTCAATAGTTTCTTCT
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TATACCAGGAAAGCCAAGAGAATCCACAGACCCTCTGAAGGAAGCAGATTGCTCCTTCAG
GACCCAAGAGACACCCTAAATACTGTGTTGGTATCGTTGGCAGAGAAACCTCAAGACGGT
TCACATTACAGGACTCTGTGCAGACAACCCTCGGTACCTGCCC

Sequence 2570
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CATCTAAGTGGCTTCTGGGGCTGCTGGGAATTGTAGTTGCTTCCCTGAGGCCACGCCCCT
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AAGGGTCTTGGGGCCCA

Sequence 2571
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Sequence 2572
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GGTNNGGATCCTTGGGA

Sequence 2573
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CTCTGCAGTTGTGTAAACACCATTGGGCAGCTGGCGATTATCTGCTTCCAAGAACTCCTG
AGACTTTTCAGCGATGGCCAAGGCGTGCATTTCTTCATCTCGAAGGACTTTCAACCATTC
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Sequence 2574
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GCCGNAGNGGCAGCGGNNCCGTCCTGCCTGCAAAGAG

Sequence 2575

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CACAGAACCCCCATTATTACTCCAAATACAAAGGCCATCCAAGAAAGATTATTCAAGCAA
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CTAGCATGTCTTCGTGGCCGATTTGACAAGGGCAATATATGGAGTGCAGAAAAAGGCGGA
AACTCAAAAAGCAAACAACTAGAAACCAAACAGGAAACTCACTGTCAGAGCACTCCCCTC
AAAAAACACCAA

Sequence 2576

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Sequence 2577

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GAACTACGACGGTATCTGATCGTCTTCGAACCTCCGACTTTCGTTCTTGATTAATGAAAA
CATTCTTGGCAAATGCTTTCGCTCTGGTCCCGTCTTGCCGCCGGTCCAAGGAATTTCACC
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GGGCCTGCAGGGAAATTTCGGATATTCAAAGCCTTATTCGAATACCCGTCGACCTCGAGG
G

Sequence 2578

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CAGATGGGAGGGGTAGGAAGGGATGAGGAAAAGGATTAATCAGTGAAGGAGAACTCGTGA
GTCATTCAATAATATGTATAGTAGTGGTGGTTTCTGTGAATTTCCTTGAGTAAAGGCGTG
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Sequence 2579

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GAATTTCGATATCAAGCCTTATCGGATACCGTCCGACCTTCGGAGGG

Sequence 2580

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CCTCTTCCCCTAGCTTAACTAAGGCTTGCAGTAAAATTATAAATTTCCACTTTCTTTCCT
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TTACACTGCAGTGGATGGCAGGTTTT
Sequence 2581
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GCCTTAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCCGTGCCTGGCCCTGTCT
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GGGAAATGAAGGCTTCCATTGGG
Sequence 2582
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GACTACAGGCGCCTGCCACCATGCCTGGCTAATTTTTAGTAGAGACGGGGTTTCGCAGTG
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GNGNGCCNCCACCCCGNTNGGCTTATTTTT
Sequence 2583
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Sequence 2584
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AGAAAGAGAGAGTAAGCGCGAGCACAGCTAAGGCCACGGAGCGAGACATCTNGGCCCGAA
TGCTGTCAGCTTCAGGAATGCCCCCCCCGCGTACTTTTTTT
Sequence 2585
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AGAATCAGGGGAATAACCGCAAGGAAAAGAAACATGTGGAGCCNAAAAGGCCAGCAAAAG
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NCGNCCCCC
Sequence 2586
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGATT
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CTGCTCGTGTTGGATCTAGAACCGTAGCCAGACATGGGACTGGAGGACGAGCAAAAGATG
CTTACCGAATCCCGGAGATCCTGAGGAGGAGGAAGAGGAAGAGGAGGAATTAGTGGATCC
CCTAACAACAGTGAGAGAGCAATGCGAGCAGTTGGAGAAATGTGTAA
Sequence 2587
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
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TTGAATCTACATTTTGGCAGAAGTTAAACATTCCCACATAATGTCAAAATTATACATCAT
GCAGTTCTGTTTTTTTGTTTGTTTTATTTTGTTTTGTTTTTGAGTCTGGCTCTGTCACCC

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AGGCTGGAGTGCAGTGGCGTGATCTGCAACCTCTGCCCCCCGGGTTCAAGCGATTCTCCT
GCCTNAGCCTCCCGAGTAGCTGAGATTACAGGTGCGCGCCACCACACTTGGCTAATTTTT
GTATTATTAGTAGAGACGGGGTTTCGGCATGTTGGCTAGGCCGGTCTCTCCTGACCTCAG
GGGGATCAGCCC
Sequence 2588
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TTAAGTNTGTAATAACGCATTTATTATTACTTATCAGGGTATGATTTATGAATTGNGGAA
CCTGNGATTATGGGAGAGTCTGGCTTCAATCAAGGGCTGAAATTCCATTTCCACTGACAT
CTTTTNCTTCCCCATCCCCCGATTCTGTCCTGCAACAGGGTAACAAGAAGGGGCCCTTAG
GCCGTTGGGACTTTGATACCCAGNAAGAATACAGCGAGTATATGAACAACAAAGAAGCTT
TNCCCAANGNTGCATTNCAGTATGGTNTCAAAATGTCTGAAGGGCGGAAAACCA
Sequence 2589
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAGTGTCGCGAACTCA
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CAAAAAAGATGTGGTTTACAAGTTAAAGCTACAGAATCCCTTTTTGCTGTAATTGCACCA
GTTTTAAAGCCTCTGGACAGAGCAGTATTTCGTTTAAAACTTTGTTTTTCTTAAAAGCTT
ACAGTGTTTGGCTAATTCTCCTCCCCTTTTTACAAGACGGGGGCCGGAGGGTGGACACTG
GTGGCAGGTTAAGGGATACTGTCACTTTAAGAAGCCTGCAGATTGAAGTGTAAACATGGA
GAAATTAGGGGCTGATTTTTTAAACTGTGTGAGATATTAACCAGCCGCCCTGTTATAAAA
TCAGGGAAATCCAAACAGCGATTTACACCCGATTAACACCCCCTTTATATATTTTTTACA
AAAATACACTGGGGAAAATAATCNAACCGNTTTCATCTCTCTTGGCTTTTTTGGTTTTTT
AA
Sequence 2590
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ATCTCGGCTCACTGCAACCTCTGCCTCCTGGGCTCAAGCAATTCTCCCACCTCAGCCTCC
CAAATAGCTGGGATCACTGGCACAAACCACCATGCCCAGCTAATTTTGTATTTTTTGTAG
AGACAGGGTTTCACCATGTTGCCTAGGCTGGTCTCAACCTCCTGGGCTCAAGCAATCCTC
CTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGATGTGAGCCACCGCATCCAGCCCCACA
CCCTCATTTATACCAATTACCTGCCCAGTAACTGTGGACTTTTGCTTCCTCACCCCTGCT
CTGATCTGGAAGGAGAGGGATTATGTTATAGCTTGTCAGCACAAGTCCCAAGTTCAATAT
TTCTGCGGCAAAAACTTCTTCAAAAAATAAATGTAC
Sequence 2591
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCCCTCTTCCCGCTGAAG
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CTCCACCTCCAAGTCAAAAGAAGTCATGTTCAGGTAAAACTCGTTCTCGCAAACCTCTGC
AGCTGGTGGTTGGCACTCTGACACCGAGCTCGGTCTTCCTGTCATGGGGTTTCCTCATCA
ACCCACACCATGACTGGACATTGCCAAGTCACTGTCCCAATGACAGATTTTATACAATTC
GCTATCGAGAAAAGGATAAAGAAAAGAAGTGGATTTTTCAAATCTGTCCAGCCACTGAAA
CAATTGTGGAAAACCTAAAGCCCAACACAGTTTATGAATTTGGAGTGAAAGACAATGTGG
AAGGTGGAATTTGGAGTAAGATTTTCAATCACAAGACTGTTGTTGGAAGTAAAAAAGTAA
ATGGGAAAATCCA
Sequence 2592
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCTG
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CAAAGCCTGTTTGGTTATCTCTTCACACAGACATGCGTGACACTTGGTGCTGAAGACCCG
GGATGGGGGACTCCTTCGGGAGACTGGTCCCCTGTCCTCACCCTCACTCCATGAGGAGAT
CCACCTACAACCTCGGGTCCTCAGTCCAACCAGCCTAAGGAACATNTNACCAATTTCAAA
TCAGATCTTGGCTTAGTGGCTGAAGACTGATGCTGCCCAATTACCTCGGAAGCCTCCTGG
ACCATCACAGATACTTTGAGTAATCTCTTATAGTGGAAGGATGCAAAGTTGGAATAA
Sequence 2593

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CCGGGCANGGTACCATATGTTTCAAAGTAGCTGTTCATCCACAGATAAAGAGATCAAGAA
ACTCTCATATACATACACTAGGAAATATTCTCCAGCCATCAAAATAATGAAGCAGTGTCA
TTTAGAGCAACACAGATGAACCGCGGAGACCTGCCTCCTACTCCACCATCACATGGAACC
CACCACTGCTTCTCCGAAGCTCGCTCTGACCACGCCGCTGCTGCTGCAGGGGCCTCGCAG
GAAGTGCAGTCTCCCCCGCGTACCTN

Sequence 2594
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGGTATGTTTTTGTCTTG
AAAAGAGGTTTTCTAGCTAGAAATTCGGGGCCCAGAAGGTCAAGGCTCCAGAGATCCCCT
TCTCATCATCCTTCAGTTGTCTGAGGAGACAGAGGATCACATGTGTCACAGTGAGTGCTG
ATTCCCCAGAATCTGCAGTCTTAAGCTCCCCTGCTGACGCACACAGCCAGTTCTCTGCTT
CATATTCATGTGACCCACTGTGAAGTGACAGGCAGCTGCCAATTCTGTCATATAAGAAGC
AGCTCTGCCCATGCAACTTTGAAAGTTCCTGCACTTCTCCATAGACTGCTCCTTCATGGA
AATAAACACATCATCACACTGTGGGTGCCTAAGCTAAGTTTGTTTGCAGTTTGATGATGC
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Sequence 2595
CGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTGA
GACAGAGTCTAGCTCTGCGCCCAGGCTGGAGTGCAGNGGCACCATCTCGGCTCACTGCAA
CCTCCACCTCCTGGGTTCAAGCAAGTCTCCTGCCTCAGCCTCCTGAGTATCTGGGATTAC
AGGCACATGCCACCACGCCCGGCTAATTTTTGTATTTTTAGNGGAGACGGGGTTTCACTT
GTTGGTCAGGCTGGTCTCAATCTCCTGACCTCGGGATCCATCTGCCTGGTCCTCCCAAAG
NGCTGGGATTACAAGGCGTGAGTCACCGTGCCCGGCGAGAAGCAACTCTTAAAATACTTT
ATTCCTTCCTCTAGGACCCTTTAAATGGTGAAAATGGGCAGATGAGTAGCAATAAGTGGA
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TAAGTGGATCCCCCGGGC

Sequence 2596
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CGGCTTCTCTTTAGCATATGCAAATTGCCAGCATTACCACTCTTGGACTTTGGGGCCACT
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GCCTGTAATCCCAGCACTTGNGGTAGGCCAAGGTGGGTAGATCACCCGAGCTCAGGGAGT
TCGAGGACCANCCTGGGCCAACATGGTGGAAAACCCCACCTTTACTAAAAAATACAAAAA
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GAATCCGTGGCCCACTGCACTCCAANCCTGGGGTGACAAGAAGCCGAGGACTCTGGNCTC
AAAAAAAAAAAAA

Sequence 2597
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GGTCTCGAACTCCTGGCCTCAAGTGATGCACCTGCCTCGGCCTNCCGAAGTGCTGGGATT
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TGCTGAAGCTTNACAGGGCGGCCAAACTAACTCGCTGATTTTTGCAAGACCACAGTGTAA
AGGTCGGATGTCCACCTGAAGAAGGGGTGGGTGCAACTCTCTGGGTGCTGCACACACCAT
GACCAAGCCTGGGCATGCAGCACCCCAGCTCCCATNCATTCACACTGGTTGCTTTGTGAG
GTCATTTTGAGAGGGCTTTCANAGCCTTTTAATGAGAA

Sequence 2598
AGGTACCTTTGACCCATCATCTTGGGAGGTGGGGAGGACCNCGAGGGNCCAGGCAGGGTG
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ATACCTGGCTATGGGAGAAGACCCCTTGCATGGGAGGGACCCCTTGCTATGGCCCCTTTA
AGCCAGGCAGTGGGGATCTACCTGNGGCCCCGGCCTCCCTAAAGTCATTCACATTGAATG
GGGGGATGAAGGNTCGGGACAGTGGCTCATAAGAGCCCGAGTATTGAGCCCTAANCTGTG

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GGGCCTAANAAATGTTCCTTTAATAAAACAATCCTTATTTTTTTAANAAAAAAAAAAAAA
TNAAAAAAAANNAAANGTACCTTGCCCGGGCGGGCCGCTCTANAACTAAGNGGGATCCC
Sequence 2599
GGCAGGTACGCGGGTGGACACAATTTCCACAACCTTTCAGATGCTGATGTAGAGCTATTG
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CCCAGAGTTGGTCGACAGATGTTAGGATGTATCCTAGCTTTTAGCTATAAACCACTCAAA
GATTCAGCCCCCAGATCCCACAGTCAGAACTGAATCTGCGTTGTTGGGGAAGCCAGCANT
GGGCCTTGGGGGAAGGAAAGCCCATGGCTGTGGTTCAAGAAGAGGGGTGGGGCCTGGGCA
AGCCCACTTTTCGGGGGAAAAACTCCTTCCGCCCCAGGGTTTCTTCTTCTCTTAAGGGAG
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CGAATNCCATTTTAAAAGATTTTCTAGGCCCCTTCAAGGGTTTTTGTAGAAGTGTNAAGC
CCTTGGTGGGGCAAGGGNTTG
Sequence 2600
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TCTGAGGCCGCAGCGAGCCATGGTCACACCACCGCACCCCAGTCTGGCAACAGAGCAAGA
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TGCTAAATGAGACTTTCCTAAATCTCCATTTTGGCTGGGACCCAAAGCTGAGGACAAAAA
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Sequence 2601
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GCTGGGTTAAAGTTATGGTTCCAGAAGCTTCCAAATCCTGAAATAGATGTTTTAAAGATG
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GACCTCGAGGNGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnAGGGGTTTAN
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ATTGGTTTATCCCGCTTCACAAATTCCCACACAACATNACCGAAGCCCGGGGAGCCATAA
AGTGGTAAAGCCTGG
Sequence 2602
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TGAATTCTTGTGGGCATTCTGGATAGCTGGAACAAGCTTAGACATGAACCCAGACAACTT
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TCCCCCAAGTAGAATCTTAAGGGCCTTCTCCTTGGTCTTCTTGTCCAGGGGACATCCCAG
GGAAAGGTGGAACTTTGCCCAGGC
Sequence 2603
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AGACAAACTTGGGTTCTATGGCCTGGGATGAGTCTGACCTCGACAAGGTCTTCCACTTGC
CCACCACCACTTTCATCGGGGGACAGGAATCAGCACTTCCTCTGCGGGAGATCATCCGTC
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CCTGGAGCAAGTGGCCAGGTGGGATCCCGGCAGGAAGNTTTGNAGACCCCTGGGATCATG
GCAGGTTCACAAATGGAGGGAGGAAACCGGACCCTGCCTGGGCCAGGCTTGTGCCGGNTC
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GGATCCCCCCCGGGCTGGCAGGGAAATTCGGATATCNAAGCCTTATCGATACCCGNCCGA
ACCCTCGANGGGGGGG

Sequence 2604

CTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGCGTGGAGGGTTTAGGCAGCGTGTTCT
GATTCTTTGCGGGACGGCGAGCGCATTTGTGCTTTGCCCGCCGCGGCCTAGGAGGCCTTT
TGAGGCCGCGTAGTCGGTGTTTTTGAACTTACTCTACAGCTTCTGGCAGGCCGTGCGGCG
CCCTGACCCGGCCTCACCATGTTGGTGCTGTTTGAAACGTCTGTGGGTTACGCCATCTTT
AAGGTTCTAAATGAGAAGAAACTTCAAGAGGTTGATAGTTTATGGAAAGAATTTGAAACT
CCAGAGAAAGCAAACAAAATAGTAAAGCTAAAACATTTTGAGAAATTTCAGGATACAGCA
GAAGCATTAGCAGCATTCACAGCTCTGATGGAGGGCAAAATCAATAAGCAGCTGAAAAAA
GTTCTGAAGAAAATAGTAAAAGAAGCCCATAAACCGCTGGCAGTAG

Sequence 2605

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTGGGTCTGAAGGGGTCAC
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ATAATGAGCATAAGCGTTCACCGACCAAGACTCCAGCCAGAAAGCCTGCACATGTGACCG
TGTCTGGGGGCACCCCAAAAGGCGAGGCTGTGCTTGGGACACACAAATTAAAGACCATCA
CGGGGAATTCTGCTGCTGTTATTACCCCATTCAAGTTGACAACTGAGGCAACGCAGACTC
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ATGAACCACACAAAGGAAAGCTAAAACCATGGGGGCAATCTAAAGAAAATAATTATCTAA
ATCAACATGTCAACAGAATTAACTTNTACAAGAAAACTTACAAACAACCCCATCTTCGGG
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Sequence 2606

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AGNGCAGNCATTTGNGGTNTAGAAATCTTGTTTTGTTTTGCTTCCATTATTGAGTTCCTC
CTAAGGGAAAATTGGAGGAGAAGGGGACTGGAATATGAAAGCCCCAAATTCATATAAAAA
AGTTTGCGGTTNTAAGGTTTGTATTAAAAAATAGNATATTATTAANGAAAAAATTTTTTT
TCACTTGATGTTTTGGTTAG

Sequence 2607

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GAATTTGGCTGGCTTGGGCAAAGGGCCTTGAAGCAAATTCNATTGGTTTTAATCTTGCAA
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AGGATGTGGAAATT

Sequence 2608

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GAGATGGAGGTTTTTCCTTCTCATTTTGATGGAGATGCCTAGAAAACCTCGCCTGACACT
CTTTGTCCAACGCAGGATAGAGAACATAGCAACAGAAAGGGTGAGGCAAAAGGCATGGCT
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TTTTCTTNTTTTTATACAGAAATAGGAATCTACCAGACAGTAATAAATGCCACTTCTCAC

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AGAAAGTCTGACAGGCTTCCACTGCCTCTGAGAGAACAACAACATGTTGGCTCCATAACA
TAAAGAAAAACAATGCTGGGTGCGGTGCGGTGGCTCGTGCCTATGATCCCAGCACTTTGG
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CGAAACCTTCTCTNTACTAAAAATNCAAAAAAAAAAAAATTAGCTG

Sequence 2609

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CCACAGGTGTGCACCCCCACTCCTGGCTAATTTTTTTATTTTTTGTAAAGATGGGGNCTT
GCTATGTTTNCCAAGGTTAGTCTNAAACTCCTGGGGTCAAGCGATCCTCCTGCTTAAACT
NCCAAAGCACTTGCGATTCAGGNGTGAGCCACCAAGCCCAGCCCCAGCACCACTTTTAAC
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NAACCCGGGAGCNTAAAGNGTAAAGCCNGGGGGCCCANTGGGGAGCTAACTACAATTAAT
GNGTTGGGCTACTGGCCNNTTCAATGGGGAAAACCNGGNGCCACTTNNTANTGAATCGNC
ACCCCCCGGGGGAGGGGGTGGTTTTGGCCTTTTCCTTCTNGTAATANTNNTNGCCGGGGT
NG

Sequence 2610

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CTTAAAATTAAAAAAGCTGTAGACAACAGAAGGNAAACTGGAAATCCATTTACAATTCAA
AAGAACTCACTAATAACAAAATTAATGTTCATCAACTTCATTTATAATCCATTTNGGCCT
ACATNGCNTAACTAAANTGACACATGTCCCCGGGGGCTGCAGGCGTNGCNCCAATCTTCG
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GACCTTGCAGNCCCTGGCCCTTCCGCCACCATGGGAATACCTNGGGCCGTTCTAGAACTA
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AGGGGGGGGCCCG

Sequence 2611

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TTTAACGNTTTTNGGTGCGAACCGCNGCCCATGTTGGCGGGTCCTTGGTAAAAGACCCCG
CGTCCTGCCCGGGCGGCCGN

Sequence 2612

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TAACCCAAAGAACTAAATAAATATCCATGAGCCCTATTGATATAAATGACAATTAAGGGT
TTTTTGTTTTGGTTTTTTTGGTTGCTTTGGTT

Sequence 2613

GAAACCTGTCGTGCCCAGCTGCATTTANTGAATCGGCCAACGCGCCGGGGAAGAGGCGGT
TTGCGTATTGGGGCGCTCTTTCCGCTTTCCTCGCTCACTGACTCGCTTGCGCTCGGGTCC
GTTCGG

Sequence 2614

GGAGGCGGCCGCCGGGCAGGTACTTTGTTTCTTTTTTTTCCTTTTTCTTTTTTTAAGACA
TGGTCTTGCTCTGTTGCCCAGGCTGCAATGCAATGGTGCCACCTCGGCTCACTGCAANCC
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CGCCCGCCACCACACCAGGCCACATCTATGTATTTAGAGACAGAGTCTTGCTCCACCTGG
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Sequence 2615
CGCGGTGGCGGCCGCCGGGCAGGTACGCGGGTGCTACACGGAGGATGAAGCTAAGGAGCT
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CCNCCTTTNAACAAATTTTTTTTTANNTTTTTNGANGNGGGCCCCCCATCTTNCTNTGTTC
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CCATAAAAAACGCNTGGGCTAAANATTGTTNATAATGATGGNTTTGGGGNNNCCCCTNTC
TANAANATAAAGGGGGACATGGGNTTTTTTCTGAAAAGGNGGNATTTTTNTNCCCCCCAT
TNAAAAAATGCNCCCCCCGGGGGAAAAAATTTTTNTTTTTTTTTTTCCCCCCCCCCCC
Sequence 2616
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CAGCACCTAGGAATCAGGAGTTTGGGCAGAACTGGGGACTTAACAACTGTTCCTATCACC
CCACTGACAACCACGTGGACCAGTGTGATTGAACACTCAACACAAGCACAGGACACCCTT
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GGCCTNAGCATTCCCTTTCCATCTTACTGGAAGTCTACCTGNGCTCGGGACACANGGGAG
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Sequence 2617
TATTNAGAAGTGGTTCCAGGTCTTAGCACAAAACATGGATGCACTTTAGGCCANNCATGG
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Sequence 2618
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TAAAATTAAAATTTTGAAAAACTTATATTGGCCACCACANGTTTGACACCTTACCAATTA
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AAGTGCAGGACAGACCAATGGAATTTAGTGTAACAGAGGTNTGAAAGGTTCATGAAGGCT
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Sequence 2619
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CTCCACCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCTTGAGTGGCTGGGACTACA
GGTGCCCACCACCACGCCTGGCTACTTTTTTTTGTATTTTTATTAGAGACGGGGTTTCAC
TGNGTTAGCCNNGAATAGGNTCGATCTCCTGCCTTGNGATCTGCCCCCCTTGGCCTTCGA
GCCCTTTTTGACCTNAAGGACCAGCACTGGAATAATGTTTGGGANNCCCNTGCTTTTNAG

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GCAGGCTTAGGGAGCAGGAAAGCATACAGGTGTAGCAGCCTTTCCAGCTGATCCCCATGC
CCTGCTGCACCTGGAGGGCTGGAACAAGCTATTCTCATATTGGGGAAAAGGGCTGA
Sequence 2620
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CTCCACNTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCTNGAGTGGCTGGGACTACA
GGTGCCCACCACCACGCCTGGCTACTTTTTTTTGTATTTTTATTAGAGACGGGGTTTCAC
TGNGTTAGNCCCGGANAGANTNGATCNCCTGACCCTGGNAACTGGCCCCCTTGGCCCTCT
AACCCTTTTTGACCCCTAAGGGAANGTACTGGAATATTGTNTTGGGNNCCCATGCTTNTG
NGGCAAGGCTTAAGGGAGCAGGAAAAGCATACANGGTGTAGCANCCTTTCCAGCTGATCC
CCATGCCCTGCTGCACCTGGAGGGCTGGAACAAGCTATTCTCATATTGGGGAAAAG
Sequence 2621
NCCGCGGTGGCGGCCGCCGGGCNGGACCTGTTTTATCCCAGCTGAGAGGCAAGGAGAACC
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AGCTCTTTGGGAGGCCGAGGCGGGCGGATCACCTGAAGCCAGGAGTTCGAGACCAGCCTG
GACAACATGGTGAGACCTTGTCTTTATTAAAAATGCAAAAATTTGGCCAGGCGCCGNGGC
TTTACCCCCTTATTCCCAGCACTTTGGGAGTCCCANGCAGGTGGATCACAAGGTCAAGAA
ATTGAGACCCTTCTTGTTTACACCAGGGAACCCCCTTCTTTCCTAAAAATTTNTAAAAAC
CAAANTTGCTGGCATGGNGGGGGCACCTGTAGTCCTAGCTACTTGGGAGCCTGAGGCANG
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TGCAGCCTGGGGGGACAAGAGTGAGACTCCCTCTCNAAAACANAACAAAACAAAATTNNCC
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Sequence 2622
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GAGCCTGTGATGCCTTCTTAGCAGGGAGAGCAGATGGAAATCCACCTTGTAGAGGCTTCC
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AAAAAAAAAAAAAGTACCTGCCCC
Sequence 2623
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CTCCNCCCNNNTTTCNCTGGGGGGGGGGNNGAATNTTANTAAAANAANCCNCCCCNGGGN
GANANAATNTNANTTTTTTTTCACCCCCCCNCGGGG
Sequence 2624
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ATACAAAACACCACCTNCTTTTGATGGAAACGGGGCCCAGAAGCAGATCCTGNGATGAGG
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AGGAAATTAAACGTTTCATGAGTTAAG
Sequence 2625
TCCCCGCGGTGGCGGCCGAGGTACAGATAATTCAAATCTATTATCTAATGTATTAGGTTA
ATTTCTATTTGTTCTATACTTTTTTTTTTTTTTTGAGATGGAGTCTTGCTNNGTCGCCCA
GGCTGGAGTGCAGNGGTGCAATCTTGGCTCACTGCAAGCTCCGCCTCCTGGGTTCATGCC
ATTCTCCTGCCTNGGCCTTCCAAGNAGCTGGGACTACAGGTGCCCGCCCCGACACCTGGC
TNATTTTTAAAAAAATTTTTTAGTAGAGACAGGGTTTACCGGGTTAACCAGGATGGNCTC
NATCTCTGACCTCGGGATCCCGCCCNTTTGGGCCTCCAAAAGACTGGGGATTACAGGGCG
GTGAGCCACCGACCCGGCCTATTGACATTTTTTAAGGGTCAAGATTTTCTTTTGTGTGTC
TAGTAATTCGTCTTTTATTGCAAAGATAATTTGCTTATTNGACTNAGAAAAATGATTTGT
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Sequence 2626
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGATAATTCAAATCTATTATCTAATGTAT
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TCATGCCATTCTCCTGCCTNGGCCTTCCAAGTAGCTGGGACTACAGGTGCCCGCCCCGAC
ACCTGGCTAATTTTTAAAAAAANTTTTTTNAGGAGAGACAGGGTTTCACCCGTGTTAGCC
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TTCTTTTGNGNGTCTAGNAATTCGTCTTTTATTGGCAAAGATAATTTGCTTATTTGACTT
AA
Sequence 2627
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TGANGGGCTCCCATGAATNAGAGGATAGGGGTGGCNGGTACCTGCCCG
Sequence 2628
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CCCGCGTACCCTATGGACAGTTGTGTCCCCAAGGAAGGATGAGAATAGCTACTGAAGTCC
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GGTATGGAAGAGTCGGCTTGACTACACTGTGTGGAGCANGTTTTAAAGAAGC
Sequence 2629
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TCTTCTGTATTGGCTGCTCTCATTGGA
Sequence 2630
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GNTGGGAGAATACNGNGTGAGAATAAGACAATNTTAAACTGGCNATATAAGTAAGNGATC
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GGAATCACAAGAGGGAGTTAGGCACTNTACACAACTTC
Sequence 2631
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGCAGGCCTCCTACACCT
ACCTCTCTCTGGGCTTTTATTTCGACCCGNGATGATGTGGCT
Sequence 2632
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TAATCCTGCCATTAAATGGTGTCCTACTCCAGGCTGTGACAGAGCAGTAAGACTAACGAA
ACAAGGGTCAAATACATCTGGATCTGATACACTCAGCTTCCCATTGCTGAGAGCTCCTGC
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TTGTGACTGCCAAACATGGAAGAATTGGCTGCAAAAAATAACCGAAATGAAACCAG
Sequence 2633
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TATTTAGAAGTTTATTT
Sequence 2634
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TCGTCATCTTCTAGACCCCAGCTAACTGTGCCATCTCCTACTCCTTTCTGGCCTTCTTCG
AGTTCTTCCAACAGTCGGAAATTGCGAGGGACTTTTACTCCCGAGCCCGTGGTGGCTGCC
ATCTTGCGTCGCTGTTGCTTGAAGGCCGGCCCCTTCTCCCCGCGTCCTGCCCGGGCGGCC
GCTCTAGAACTA
Sequence 2635
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TAGTGGA
Sequence 2636
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CTNTTTCATGAGATCCACCCATGACCTTGGGGTTCCTCANCCCAGCNCGAANGAACTTCT
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CCNAGGAATCCCANACCAGCCTTGGACAACATGGCAAAATNCCANTNTTTTCNAATNANA
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CCCCCGG
Sequence 2637
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AACAAAAANATATTTACACATTTTATATATAAACTTAAAAACCTTGTACCTTN
Sequence 2638
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AGCAGCACAGGGAGAGAAACAGGATAGGAAAGCAGAATGGCGAGCAGCCTATGGCCCAGG
GCCTGTAATCCCTTCCCAAGACTAGCTGCTCAGGGTGGTGCAGGGACAGGACCAGACCCT
GCGCCTATTTCCTGCCTTCTTTCCCTATAGGGAACTCTGTAGGCTGAGCCACTGTCCTGC
TCTTATGACATTATATCTTGTGCCTTTCTCCTCAGCAGTGAGCAGTGAGCTACTCCTGGC
CCAGGCCCTAGGGGAAATGGATCAGTCTTTGAGGTTTCTATTTGGGGAGGGGAGTACCTG
CCCG
Sequence 2639
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GGGTGATTCTCGTGCCTCAGCCTCTCAGGTAACTGGGATTACAGGCATGCACCACCATGC
CTCGTATTTTTTTTGCGTGTGTTTTTAGTAGAGACGTGTTTCACTATGTTGTCCCGGGCT
GATCTCCAACTCCTGTAAGTCAAGTGATCTGCCCGCCTCAGCCTCCCAAAGTGCTGGGAT
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GTGTGGTAGTCATTAAGTGCTGGTCTATCTCTATACCTTCCCCAGGCAAGGTAGGATTGC
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Sequence 2640
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CTGAGAGATACTGCATCAAGCCCTAGACCCTCAAGAGCCAGTCCCGCCCTTTTACAGAGC
ANTCCCTTATCCTGGGGCCATGGGTCAGGCTGACCTTCAA
Sequence 2641
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Sequence 2642
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C
Sequence 2643
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AAATTGATGGGGCTCCTTCAGGAGCAGCGTGCAGATATGGACCAGTTCACTGCCTCAATC
TCAGAGACCCCTGTGGACAGTCCGGGTGAGCTCTGAGGAGAGTGAGGAGATCCCACCGTT
CCACCCNTTCCACCCCTTCCNAGCCCTACCTGAGAACGAAGACACTCAACCCGGAGTTTG
TACCTGCCCGGGCTGGCNCGCTTCTAGAAACTAGTTGGATCCCCCGGGCTGCAGGGAATT
CGATATCAAGGCTTATCCGATACCGTCCGACCTCGAG

Sequence 2644

AATTGGAGCTCCCCGCGGTGGCGGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTGGA
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TGGCTTAGCCTCTCAAAGTGCTAGGATTACAGGTATAAGCCACTGCACTAAGTCCAGTGA
ATCATTTTCCAGACAACATTTACTGAATATCCGACACTGCCTTCCACAGACGGGGGAGGT
TTCCCAAAGAGGCCGTGCTTTTTGAGAAGCTGGCAAGATAACCCTGGGGTGGAGGGAAGG
TGGCCCGCAGCTGAGACCACCACCTTACTGTCCCCAAATCCTCACCAGAGGTTGCTGACA
CTTTCCTNTTCCCCATCCTCATCTACTTTTCAAATTAGAACAGTAGAAAATGGGATGATT
AGGCTCCTTNNCATTTTTAAAAAACCCCGTTGTTTCAAATTTTTNTAGACNCCAAGTCTN
AAANGGGNGTAATCNCCTTNGTAAAATTTAAATT

Sequence 2645

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AGCTAAAGATAACTTACCATTTAGAAGTCAAAATGCAGGGAATCTTACTCCTGTTTCCAT
TTTNTGNCCCNCTTGCTTCACTCGNGTATGNCATGCTCTATCTCTTCTCCTATGCAGACT
TTANGNCNGTNGGCCATTAANTCTTGAAGAAATTTCCTTCNNTCTTGCTGTCACNTACCA
NNTTANTTGGTCTGCGTGCAACAAGAAGGNGTATTATANNAAAAAAGTTCTTGCTTAACC
ATTCANGATTAAATAAANAAAAAAATTCCTTTGTTTNAACATTTTGNTATTTTTTGCACA
TACACCAAACTTTTTTAATTGCCTTTTNCANAGNNCCTTTCCCTCCAAAAAATAAAAAAC
AAAAAATCTTCAATCNACATAAAATCAAACACCTGTATTGATCCATGTTCATGCTAAGCT
GGGNAA

Sequence 2646

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CCCTACAGGTAGGATTGGATCACTCCATGAGAGTAGCCGGCAGGTTTCTACAATGGCCTG
GGAATGGACTGATTATTTTTATACATTTTCTGGCCTGAGAGAAAGCCAAGGTCCCCTGCT
GTTCACAGCAACCCTGCCTGGGAGCTTGGAATCTTGGTAAATCTGCCCCGTTNGGATCTA
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Sequence 2647

AGGTACCCTATATTCTTCTTGATTTCTAGCCTTTTATTGGCTCTCAGATTGCCAGAGTTG
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AGAGNGACGTGTGAAAGGCTTGAGGCT

Sequence 2648

TCACCGCGGTGGCGGCCGCCGGGCAGGTACTTATTTTTCTTTTTTTTTTTTTGGGGGTGGG
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CCCANGCCGGTNGTNAATTTTCANCCTTTTTTCANCTNGCTTTGGGTTTTTAAGGCTTTN
GTTTTCNANCNTTTTTCTTTNAAANCCTTCTTCACAAGTNGANGCCATTCNTCCNGGTTC
CTTCNAAATNTGGGCCTGGGTCCCTTNTCCCCGGNTTTAAAAAANAACTTNCCAAAAACA
AAACANTTTTTTCCCCTNG

Sequence 2649

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CACAGGACAGCCTCCGAAACAATAACTGTTTGAATATCCTTAATCTTCGGCAACTTCAAT
AACTCCCCAAAATATATGTAATCAGAGAATTAACTTTTACAACTTTTGGTTATTGTTTGC
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ACCT

Sequence 2650

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TCCACGAAGTAGCCGGCGCATAGGCAGCAAACAATGTGTTCATTCAAGTCTTTGATCTTC
ACTCGAACCTCCTCCTGACCCTCCTTTCCCAGGGGAGACTACACAACGTCGGCGACACAA
CGCGCAGGCCCCCGCGTACCTGCCCG

Sequence 2651

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAACAAGCAATAATAAA
AGTCCTCTGCCGAAGACAGAATAGTGTAAAACCTTTCCTTCCCCTGCCCTTACAGATTTC
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Sequence 2652

CCGCGGTGGCGGCCGAGGTACATAGTGTCGCGAACTCAAATCGGCATTTAGATAGATCCA
GTGGTTTAAACGGCACGTTTTTGCTTATAAAAAAAGTGCAAAAAAGATGTGGTTTACAAG
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CCCCTTTTTACAAGACGGGGGCCGGAGGGTGGACACTGGTGGCAGGTTAAGGGATACTGT
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TACACCGATTAACACCCCCTTTATATATTTTTTACAAAAATCACTGAGAAAATAATNAAC
GTTTTCATCTCTCTTGGCTTTTTTTGGTTTTAAAAAGTGTCAAAAAGTCTACATTTAAAT
NTTAAAAATTTAA

Sequence 2653

CACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTACACCAA
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CACTCTACAAAACCCTGAGGGCCTAGAAATCTGTAAATGCATCGCCAAGCACTGGGGCTG
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CATTGAAAATTTAGTGAAATGTTCAAAGAGAATAGATGTTTCCCAAAACAACAACTTTAT
GTTAAAAATAGTCATTAAAAGATCTGTTGTAATTAAAA

Sequence 2654

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGTAAAGGTATAGT
AGTTGGCAGCAGAATGGACCCATTGAGGATAACTATAAAATTACNGAAAATATTTAAATG
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AGAACCTGAATACTGAACTTGATTCAGGCAGAGGACCATAACCTGGGGGTCAGGGGAAGG
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CAGGAGCCTGAAAAGCTAATTTGAGAAGATAATAAGTTGGATTTTTGNTTTGTTTTGCAT
TTTGCAAGTACCTGCCCGTGCCGGC

Sequence 2655

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGGAGGTACCACTGAATCCAAGG
CTCTCTTGGGTAGCCTATGTGCCTCTTGGATGGTATGTGGAAGCCAAGGACTGTCTGAAC
GTGCTGAACAAGAGCAACGAGGGGAAAGAATTACTCGTCCCACTGACGAGTTCTATGTAT
GTCCCTGGGAAGCTGCATGATGTGGAACACGTGCTCATCGATGTGGGAACTGGGTACCT

Sequence 2656

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCCCCGGGCAGGTACTTGAACAGTAGGAGG
AGGTGGTTCCTCATTCGTCTCCCGGGAGCGTCCTCTTCTCAGTCAGGCTGGCACCATGAC
CCAAGGAACCTCGGCGAGTGACGGATAAACACCAGTCGGCCCGCGACTAAGAGCTGCGCC
CCCGCGTACGCGGGTCACCAGGGTCAGTTTCTTTAATGATGGTTTCCAACTGGCCTAATA
CATTAAGTAAGACTGGCTGATAACATGACCAGACAGACATAAAGACCCTGTTGGGAATGA
CATTGAACTCTCAAAGTCAAGATTTCTTACACAAATCTATCAGCTGGAGAAAATGAAGGC
AGTGTGGTATATGTGTGCAAATAAGGACATTATGAAGCTTAAATATGGAATGTCTCTTGG
ACCCCCGATGTCATCTGNATTCTCTTTTTCTTCTTGTACCCT

Sequence 2657

CGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACCATCTTGGCTCACTGCAA
CCTCAACCTCCTGGGTTCAAGCGATCCTGCTGCCCCAGCACCACCCCCTCTCCAAGTAGC
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GGGTTTCACCAGGTTGCCCAGGCTGGTCTTCTGAGCTCAAGCAATCCACCTNCCTTGGCC
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TTTGCATAGCCTTCATTGTCTTAGCAAAGTCAGAAGAAGACCANTAACATAATGTNATTT
AATTAACAACAACGNCAACAACAACAACAAAACAACCCNGGATGGGGGCAGTGGCTCAAG
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ACCAAACTGAANCCCTNTTTTTTANAAAAAATAAACCGTTAAAAAAATCCTTGGTTTTTG
TTTAAANGNGCCGGTCCCCCCCCCAAGGAGAAAATTTTTNGGGGGGGGGGNGTTAAAAAA
AA

Sequence 2658

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TCGGTGGCAGTCATGGGGCAGCACCGCAGGTCTACAGTGGGGTGGAGGTGTTCGGTCCTT
GCGGGGCTTCATGACCTTGATTTNTGGCGGTCGGGGGGCANCACCCNCAGGTCTACAGTG
GGGGGAAGGNGTTCGATCCTTGTGGGCTTAATGACCTTTGATTCCTGACTACCGGGCTGT
GAATNGGCACAACTTCACACAAGTATTGTGNTTTCNCATCNACCCTGGGAAAGAACCCTG
CCCCGGGGGGGCGGGGTTT

Sequence 2659

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTNTTTTTTT
TTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTNAAAAATTTTTTTTTTTTTNAAAAAAAAAANCCNCCNCCC
CCCNAANNNCCCCCNAAANAAAAAAAAAANNNNTTNAAAAAAATTTCNCGGGNNNTTCCC
CCCNNAANNTTTNTNTNGGCNAAAAAAANNNNNNNTTTTTTTTNGGGGCCCNNCCNTAAA
AAAAAAANTTTAAAATTTTTTGGGGGGGNCCNGGGNANCCCCAATTTTNANNTTNGGGGG
GTTNAAAAAAANAAANGGGGNAANNAAAAAAANGGNCCNNNNAATTNGNNTTNTNAAAAT
TNCNCCCNNNAAAANTTTTTCTNAANCCCCAAAANGGGANGGGNCNNTNGGTTTTTTNAN
GGTAANGGGGGGCCAGGGGGGGNTTTTCCCAANTTTTNCCCGGCCCAAAAAAGGAAAAAT
TTTTTTTTTGTTGGGGGGAGGGAGTTTTNAAAAA

Sequence 2660

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGAACAGGGATAAG
TTCTTGGATAAGGTGCCAACATACCTATAAAAGCTGATTTTTGAGTAAATTATTGATTCT
AACATATGTAATGGATTTGGTGTGATAATTTTCTGATCTTTAACTATAAGTGACTTTTTA

TABLE 1

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TTCTCCACCAGAAAAGATAAATGACTGAGAATGTAAGTCTGCGCTCTGATTAACACAATG
GAGAAACGGAAAAACTATCTCTGTTAAAAACTGATTCCTGTCATTCTTCTGATATCAAAT
AAGAGGAAGGAAAATAAACTTTTTGTGTGTAGATAGAAAAACATACCTGAGGCCAGGTGC
AGTGGATCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGCAGATCAGCTGAGG
TCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAATCACGTCTCTACTAAAAATACAA
AAATTATCTGGGTGTAGTGGTGCGTGCCTGTAATCCCAGNTACTCGGGAGGCTGAGGCAG
GAGAATCACTTTAATTC

Sequence 2661

TCGGAGCTCNCCGCGGTGGCGGCCGGGCAGGTACTCTGGCTGCAGACTGACCTTGCTCAG
GTCCGAGAAGGATGGGGCAGCCACTGGAGTGGATGCCATCTGCACCCACCGTCTTGACCC
CAAAAGCCCTGGAGTGGACAGGGAGCAGCTATACTGGGAGCTGAGCCAGCTGACCAATGG
CATCAAAGAGCTGGGCCCCTACACCCTGGACAGGAACAGTCTCTATGTCAATGGTTTCAC
CCATCAGACCTCTGCGCCCAACACCAGCACTCCTGGGACCTCACAGTGGACCTTGGGACC
TCAGGGACTCCATCCTTCCTTCCCAAGCCCTACATTTGNTTGGCCCTTTTCTGGTGCCAT
ACACCCTTA

Sequence 2662

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGGGAGGGACATACAAT
ATTTAATAGGATATTTCTACAGAACAATAACTTATATTATGTCCTTGTAAAAATCTGTAC
CTCTTTAAAACATTTAACTGAAACATCCATTTTTTTTTAGCTTTGCTAATCAAAATTGTT
TTAAGAATTAAAACTAGGTTGTAACTAATGTCAGTACCTGCCCGGGCGGCCGCCCGGGCA
GGTACATAGGCATCCTATTCACTGCACCCTGTCACACCCGGCACCCCCCGCCCCGCACAT
TATTTGAAAGACTGGGAATTTAATGGTTAGGGACAGTAAATCTACTTCTTTTTCCA

Sequence 2663

AGTTCGGTGTAGGTCGTTTCGCTCCAAGCTGGGCTTGTGGTGCACNGAACCCCCCGTTTT
CAGCCCGACCCGGNTGCGCCTTATTCCGGTAACTATTCGTTCTTTGAGTCCCAACCC

Sequence 2664

AGGTACTGCAACTGCCAGAACTTGGTATTGTAGCTGCTGCCCGCTGACTAGCAGCTGGAC
TGATTTTGAATAAAAATGAAAGCATTAAAGGGTTTCCCTACAAAACATTTTTCTTTAAAA
TACTTTTGAAAATGGCTATAANCAGTTGACTTTCACCCTTGGAGAGCATCACACTGTGTG
AGGTTCAGTGATTGTTGACCCTNCCCAGCCCCTNCTGCTTCTTTAAGTTATCTGTGTGCG
TGCNCTTCCTCTCAATCTTNTTTTGCACCGCTCATTTNTTTTTCTCTGACCCATGAAGAA
AAGGAAAAACTTTACTGATTGATAAANTTTTTAAAANAA

Sequence 2665

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAATTTTTTTTTTTT
TTTTTTGGTAGAAGTGGTGTCTCACTATATTGCCTTGGCTGGTATTGAATTCTTGGGCTC
AAGCAATCCTCCCCTCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCTCAC
CCAGCCCACTTATTCATCTTTTTGCCTGCAAGCTACACCACCAAAGCCCCAGGTCAAACA
TCTTTCTCCACAGACTGTGAGAAAAGAGCCTTTCTTCCTCCTAATTTGTAATGGCTTTCA
GCTCTATNTGTCTAGCTTCAATCCTGACATCTGCAGCTTACA

Sequence 2666

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATGAGGCTTGGCTCTGTGTGAT
GCACTCTAACCAGCCCACACTTCAGCAGCGGCATCATTTGGATTCAGGGAGAGTTTCTGC
AGCATGAAGGAGTAGGAAGAACACAGGGTGAGTTCACAGGAATCCCTACTTTTCCATGTG
ACCTTGTTTGGCCTGAAGTGATTTTCTTGACCTCTCTGGGCCTGACTTTCCTCATCTGTA
AAGTGGAGGGTTTGAAAATATCACAGAAAACAAAATACCTTAAAGGATGCTCTGGCACAC
AGCAGGTATTTCCATATAATGATACCTCCCATTCCTTTTTATGTGAGCTATATCCCCTGA
AACCCAGGTTTGACTAAATTGAGACCAACTTTCATAATATACACAATGACTGNTAGATAT
GAATTTTGGTGTGGTGAAGATGGGGAGTGAAAAAAGTAGAAAAAGTCAAATCTCATTGAA
TAAAAAAGGG

Sequence 2667

NNGGCGGCCGCCCGGGCAGGTACTTTCTTTNCTTTTTTTNTTTTTTTTGAGGCAGAGTCT

TABLE 1

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NGCTCTGTTGCCCAGGCTGGAGTGCAGCGGTGCGATCTTGGCTCACTGCAAGCTCCGCCT
CCCGGGTTCACGCCATTCTCCTGCCTNAGCCTCCCAAGGAGCTGGGACTACAGGCTCCCG
CCACCACGCCTGGCTAATTTTTTTGTATTTTTAGTAAAGACGGGTTTCATCGTGTTAGCC
AGGATGGTCTCGATCTCCTGACCTNATGATCCGCCCGCTCTGTCTTCCCAAAGNGCTGGN
ATNACAGGGCCTGANCCATTGTGCCCAGCCAAANTGTNCCTTTGNAAAGTTNGCGAAATC
AGATTTTGTTTCCCAATAGAACCAAAATTTTTATGAGGGATGCTAGCATTTTTCCAAGGC
ATANTAATTAGTTTACAACCTGAANAAATATTATGTTTTGTANTAGATAAATATTAAGGT
GNGCATTTTAA

Sequence 2668

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTATTACAT
ATGATTTTTATTAGTTTCTGGAGGCAAATTTAATTTTTATTTTAAAATCAAAATCTATTT
TAAAAGAAATAGTTCTCAAAAAGACAACGATGACTGGGTGTGGTGGTGTGTGCCTGTAGT
TCAAGGCTGCTCGGGAGACAGAGGCAGGAGAACCACTTGAGGCCAGTTCAGTCTAGCCTG
GGTAACATAGCAGGACCCTGTCCCTAAAATAATAAAAAATTTAAAAACCACAATAATGTG
AGTTACAAAAAAGTGTAACTTATGAAAAGTCCGTATTTATATTGAC

Sequence 2669

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCAGGGGT
GGGAGCATTTATGGTGATCAGATGTGCCTGGCAAGCCCCTGTTCAGACATTGCTCACATT
CCAAATGTTTTCGTGTAGAATATTGCACAGGTCTGGGGACGCTCTACCTGTGCCCTGTGA
GTGTTAATAATGGTGGAGAAAGAGTGTAGCTGTGCCCTTGAGAGAGAAGGTGAGGGAAAG
AGTGCACCAGTCAGCTGACCGTCAGCTGGCTAGGCTCTTCACTGAGTCCTATGTCGCAGT
GCACAAATCACTGCCCATCANGCCTCAGTTTCCTCATCTGGTAAATGGTGATAACATCAA
TCTGCCCCCCCGCCAGGGTGCTGTTATGAGGGTCAAAAGTGGTAGTGGAGGGTAATACTG
GNTGAGTCCATTTGTGTGTGGGAGGAAGAAAGGCTTTACATTNACCTGGTACCTTGGGCC
GCTTTAAGAACTAGGTGGATNCCCCCGGGCTGCANGAAATTTNATATTAAAGCTTATTCG
ATTCCCGTCCACCTTNGAGGGGGGGG

Sequence 2670

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTATTACATAT
GATTTTTATTAGTTTCTGGAGGCAAATTTAATTTTTATTTTAAAATCAAAATCTATTTTA
AAAGAAATAGTTCTCAAAAAGACAACCGATGACTGGGTGTGGTGGTGTGTGCCTGTAGTT
CAGGCTGCTCGGGAGACAGAGGCAGGAGAACCACTTGAGGCCAGTTCAGTCTAGCCTGGG
TAACATAGCAGGACCCTGTCCCTAAAATAATAAAAAATTTAAAAACCACAATAATGTGAG
TTACAAAAAAGTGGTAACTTATGAAAAAGGTCGGAATTTAATATTGACCTTTGGTAAGAG
CTCAATTANTTTCAGGGAAAGGCAAGGGAGTATCACCATTCTGAGTAATACAATTTCAAC
TAATCTTTATTTCTTCTACTTGAAGTCAGTGCCTATCTACCACAAACATTCCTATATCAG
TGTGCAAATTAATTTNGAGACAATAGGCTTTTTACGACAATGAATTGGTTACTTTNAA

Sequence 2671

ACGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTNNTTTTTTTTTTTTTTTT
TTTTTTTTCATTTTTATAAGAATATATAAAAAATGATATAAANGGACATTTACGGTAGTG
GGGGAAGGCATATATNTACGTTAAAAGGCAGGACATTTTTAA

Sequence 2672

TACGAGCCATTTACAAAAAATCGACCGCTTCAAGTCAGAGGGTGGCNGAAAACCCGACAG
GGACTATTAAAGAATACCAAGGNCGTTTCCCCCCTGGGNAAGCTCCCCTCGTGCCGCTCT
TTCTNGTTTCCCGAACCCCTGTCCGCTTTANNCGGGAATACCCTGGTCCCNGCCTTTTTC
TTCCCTTTTC

Sequence 2673

CCGCGGTGGCGGCCGAGGTACGCGGGATGTGGTCTAATCAAAGCCATCTCAATTTGTAGA
TGAAGAAGGCAAGGACTAATGACAAGAAATGAATTGTTGGCCGGGCATGGTGGCTCACGC
CTGTAATACCAACACTTTGGGAGGCCAAGGCTGGTGGATCACCTGGGCTTGGGAGTTCGA
GACCAGCCTAACCAACATGGAGAAACCCCGCCTCTACAAAAAAAAAAAATACAAAAATTAG
CTGGGCATGATGGCGGGCGCGCCCCCTAATTCCAGCTACTCCTGAGGCTGAGGCAGGAGA

TABLE 1

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ATTGCTTGAACCCAGGAGGCGGAGGTTGCGGTGAGCTAAGATCGCACCATTGCACTCCGC
ACTCCGGCCTGGACAACAAGAGCAAAAACTTTTGTCTTAAAAAAAAAAAAAAAAAGTACC
TGC

Sequence 2674

CCGCGGTGGCGGCCGACGNACCNGGTNCTCTGTGGGATACNCATTAGAGTTGCTCGNTGG
ANATGGAATGATGGTGGGGTGCATTTNANCATGGCTGANTGCTTTCTGCTTAAGGACCTG
ATGTATTAATGCTCTCCANGTCATTCATATTTGGGGGAAGGAACAAAGAAGGGTACCTN

Sequence 2675

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTAGCATGATCTTGGCTTA
CTGCAACCTCCGCCTCCCTGGTTCAAGCAATTCTCCTGCCTCAGCCTNCCGAATAGCTGG
GATTACAGGCATGCACCACCATACCCGGCTAATTTTTGTATTTTTAGGAAGAGATGGGGT
TTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATTCACCCGTCTTGG
CCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGTGCCCGGCCTCCATTACACCTCT
TTATTCTAGTTCAACTCAGACCGTGAAGTTAGCATACAGGTCCTCAGGAGTTTGAGGCCA
CTTTCCAAGGATAAGGGCCACCTTCAAGGGCACATCTTGCCCTTAAACAATTAAATTTNT
GAAAGCTTTTGGGAAAAGGGGNNGAACATGCCTTTT

Sequence 2676

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTTTGAGATATAAATTGGTATGTTCACATGTTGGTAAGAAAGATCTAATAG
CTAGAAAAGGAACTGCTGAAGTTGCAGGAAAGAGAAGAGAAATNTAAGGAATGAAACCTG
AAAAATAGAGGGCAGAGTCAGAGGGGTGGAGAAGGAAGGGGCCCTGACGGGAGGNGGACC
ACTTTTTNCAAGGCACATGCAGGCAGGCACCTNTNTGGAGGGTCCCATGGCTGGCTATGT
GTGGCAGTGCATGAAATAGTCACTGAATATGCTCCCTTGCTGTCCTCTGCTTGTGCTCAC
CGAGGAGTGACTGTGTCTACTGGAAACAAGTTTGCCTTTTCACTGGTCTAAATAAANGGA
TCAATGACCTCAAATCTAAAGAGCATTAGGAAACCTTNTNAAGCCANAACTGTACCCTTG
GCCGNTNTAAAACTAAGGGGGATCCCCCCGGCTGCAG

Sequence 2677

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGCTGCGTGCGGCGGG
AATCATGGCTGCTCGCAGAGCTCTGCACTTCGTATTCAAAGTGGGAAACCGCTTCCAGAC
GGCGCGTTTCTATCGGGACGTCCTGGGGATGAAGGTGGAGTCTTGCTCTGTCGCCAGGCT
GGAGTGCAGTGGCGCGATCTCGGCTCACTGCTCTGACTACACCCGGATAACAGAAGACAG
TTTCTCAAAGCCTTATGATGGGAAATGGAGTAAAACAATGGTGGGATTTGGGCCTGAGGA
TGATCATTTTGTCGCAGAACTGACTTACAATTATGGCGTCGGAGACTACAAGCTTGGCAA
TGACTTTATGGGAATCACGCTCGCTTCTAGCCAGGCTGTCANGCAAACGCCAGGAAGCTG
GAAGTGGCCACTGACCGGAAAGTTGCANGAAAGGTGTTTTTTTAAACCCAGG

Sequence 2678

NCCCGGGCAGGNACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATGGGGATTTGTCTAT
TAAAATAGGTTGTNGGAAGNACCCCANAGGACCCTTNTTGGATCAGGAATCAATAATCCC
ACCNAGACGGGGNCCCAGCATTTATTGGGNCGCAGCATAAAACTTGGCCACCTCCTTATT
GGGGNTGCCCTGGGCTGAGTCAAACCACATTTGGATGCANCnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnCTGCAGGAATTTCCATTATTNAAAGCCTTATCGGATNCCCGTTCGAC
CTTCNAGGGGGGGGGCCC

Sequence 2679

TAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTAACANGGGTGTCTGGTCTT
AGAAGCCTCCCTTCAGATCCCAGCTGACCCTGGTGACTGCCTGGCCTTGATGTTGGCTGC
AGCCTTCTGATAGAACCACATGGATTCCACCCACAGCTGGCCAGGCTTGTTACATGGGTC
AAGGGAATACAAATGGCCCCCCCCCAGGGAGCAGGTGTTGGCCTCAGTTTTCAGGGACCC
TTGGTGTTGCTCCTTACCTAGAGCCCATTAATCTACCCCATNAACTCTCTTGCCATGAAA
AGCCATCTTCCAGGAGCCCTGTTTT

Sequence 2680

AGGTACTCAAAGACGAATCATGAAAAAGAAAAAAACTTTATTTCAAACAGGTTCAGTGAT

TABLE 1
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ATATGTGGGTGCTNCAGCAAAGGCTGGTTGTGGCAAAGTTTCATTTCAAACTGTATGATG
TGGGCTGGGCAAGGTGGCTTCACGCCTGTAATCCCAGCACTTTGTGCCCGCGTACTCAGC
TGTGTTCATGTGGNGGTCTGTGGAAAGAAAAGAAGACTCGTTTGGAAATGAAGCTGTCCC
TTTCCAAGCAAGTCTTCTGGTGGCTTTTCTTCTCTCAAAAATGGGATCCCGATAAAATAT
TTGAATAGGAGCNGAATTGGTAGAAATGTTCGTGCCTGTCACCCCAGAAAAGCCTTGCCT
GGTTTT

Sequence 2681

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGGTTTAAT
TTCACAGTGAGGGAGTCGGTTGGTGATCTCTAAGAAATCCCCAAGCACCTGGTGTTGGGA
AAGTCCCTCAAATAAAGAAGTGTTCTTTTCTTTTTTTTTCCTCTCTCTCTTTCTATTTAT
TTATTTTTTGAGATGGAGTCTTGCTCTGTCACCCAGACTGGAGTGCAGTGGCAGGATCTC
AGCTCACTGCAACCTCCACCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAAT
AGCTGGGATTACAGACACCCACCACCACGCCCAGCTAATTTTTGTATTTTTAGTAGAGAC
GGGGTTTCACTATGTTTTGTCAGGCTGGTCTCGAACTCCCAACCTCAGGTGATCCACCAC
TTAACCT

Sequence 2682

CCTCAGATTTTGGGCCTAGGAAGGTAGGTGATTTAAACTCACTGAAAGCATGTACACCTT
GCTGTTGCTGCTTGCTGCCACTGCTGCTGTTTCATCTGTTCCTGCTGCCGCTGGAATCGT
GGAGGTAAAGACTTCTGAAACTGTTTGAAATAGCCAGATAATACAGC

Sequence 2683

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTCTTTTTTTTCTTTTTCTTTTT
CTTTTTTTTTAATGTGAGACAGGATCTCATTCTGTTGCCTAGGCTGGAGTGCAGTGGCGC
AATCTCGGCTCACTGCAACCTCTGCCTCCTGGGCTCAAGCAATTCTCCCACCTCAGCCTC
CCAAATAGCTGGGATCACTGGCACAAACCACCATGCCCAGCTAATTTTGTATTTTTTGTA
GAGACAGGGTTTCACCATGTTGCCCAGGCTGGTCTCAACCTCCTGGGCTCAAGCAATCCT
CCTGCCTCGGCCTCCAAAGTGCTGGGATTACAGATGTGAGCCACCGCATTCAGCCCCACA
CCCTTATTTATACCAATTACCTGCCCAGTAACTGNGGACTTTTGCTTCCTCACCCTGTTT
TGATCGCTTTAAAACTAAGTGGGATCCCCCCGGGCTGCAGGAATTTCGATATTCAAGCTT
ATTCGAATACCCGCCGCCTTCGANGGGGGGGG

Sequence 2684

GACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTC
TTTTCTTTTCTTTTCTTTTTTTTCTTTTTTTTGAGACGGAGTTTTGCTCTTGTTGCCCAG
GCTGGAGTGCAATGACATGATCTCAGCTCACCACAACGTCCACCTCCCAGGTTCAAGTGA
TTCTCCTGCCTCAGCCTTCCCAAGTAGCTGGGATTATAGGCATGTGCCACCAAGCCTGGC
TAATTTTCTATTTTTAAGTAGAGATGGGGTTTTCTCCATGTGGGTCAGGCTGGTCTTNGA
ACTCCTGACCTCAGGTGATCCACCCACCTCGGGNCTCCCAAAAGTGCTGGGATTACAAGG
CCGTGGAGCCCACCGNACCCAGCCAAAGGCCAAAATNCTNAAGTCTTTTGNTTTTTTTTT
TCAAATTGAGGGGTNGTTATTTAACAACAAGCTTGGATCATTTGAGNCCAATTNTTTTGG
TTCCCCGTTTCCCCACCCGCCAATTCNTTTTTTTTTTC

Sequence 2685

AGGTACAACATTTAGAGAACCTTAGCTGCCCAGAAAAACTCAGATTTTCTGCTTTACAAA
AGAATAAAAATCATCGAATTTATTACCCTGGACTTTATTGGAAATCAGTGAAGAATATTC
ATACCAAATACCAGGTTTCACGAACNTTNCCTCTCTCTCTTTCNTTCAAGGTAAGGGGGT
TTGGNCAAAAGGNTTGTTTNTTTTTNGAAAANGCCGCCCNGNTTGGNNCNAGGTGGNNCC
TGTTTAAGGGTTGGGCNNACGGGGGGTGGTTAAGGAAAAAATTCAAATTTAAANCNTTTT
TATATTTTCCCGGGGGCTGNGTTTTAANCTTTAAAACCCCCTNGGTTTTNCCAAAGGGGN
AATTCCCAAGGTTTTTTAAAAAAAGGCCNNTTTTTTTTTTTTGGGGACCCTNGCCCNGGNC
GGGGCCCTTTTANAAAAAAAGGGGGGGNTNCCCCCGGGGGGTGGGANGGAANTTTTGGAN
NTTTAAGGCTTTTTTGGGTANCCGGGGAACCCTTTNAGGGGGGGGGGG

Sequence 2686

CCGCGGTGGCGGCCGAGGTACTCCAACCCAAGCAACAGAGCAAGACCCTGTCTCAAAACA

TABLE 1

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AAACAAAACAAAACAAACAAAAAAAATGAGGTAGGCATGTTTTATTCCCATCTTACAGAT
GAGGAGACTGAGGCAATAATAATTCAATGGCTTATCTAAAGTCACAAAGCTAGTAAGGAG
CAAAATCCAGTTNTGTCTGCTTCCAGCCCACCTTGTCCCACTTGCTTCTTTATT
Sequence 2687
TACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCGGGCAAGGTACTTTTTTT
TTTTTTTTTTTTTTTTGGGTATATAAACTATTTATTAACAGACAAGGCCTACAGACTTAT
TTCTTCTTGGACACACCCACGGNGCGGGCACGGGCGGNNAAGTNGGTTTTGGTGTGCNTN
GCNTTNGNACACTAAAGGGCCCAAAAAGTTGACGCANTCCCTTTTNTGGGCCCNAATTTT
TTTAANTCNTTCNAAGGTTTTTNACGGGAGNTTGTTGTCCAGACCATTGGCTAGGACCTG
GCTTGTATTTTCCATCNTTTANATCCTTNTTGTTCTGTTCAAGAACCANTCTGGGGATCT
TGTACCTNGGNCCGCTNTAGAAACTAGTGnnnnnnnnnnnnnnnnnnnnnnnTGGATATT
AAAGCTTATTCGANNACCCGTCCNNCCNTTCAANGGGGGGGG
Sequence 2688
AACACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACAGTG
GAGAAAGAAGGGGGACCCCACCAGGGCTATGGAGAGACAGTAGAGGCAGGACTGAACCGT
CAGCAAAGATTAAAAGGATGACCTGAGGCTGGCAACCACAAAACC
Sequence 2689
CACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGAGTCT
TTTGCTTCCTCCCACCCCTAGGGGGAAAAACTGCTTTGTGCTTTGGGAAGTTGTCTCTGA
AACCCGGGGACAGAGGACGCAGGACAGACTANGAGGGAGCCCGGGAGGATGGGCTGCANC
TGTGGAGGAGGGTTTTAAAGGAGAGAGGGTCGGAGAGCAAAAGGCCTNAANAAGCCCANA
AGCAAGTTGAGAGAGGGTGGAAAAGTGAACCACCGGCTTGGGCTTGAACCCGACACGCTT
TTCTTCCAATGGTTAAAATAGCCACCTTTTAGAAAAAAATTTNACAAAGGNTCCCATTCC
NCNAAAAAAAAAAAAAAAAGGAAAAA
Sequence 2690
TATACGACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGACG
GGAAGGATTCCTGCCAGGGTGATTCTGGGGGTCCGCTGGTATGTGGAGACCACCTCCGAG
GCCTTGTGTCATGGGGTAACATCCCCTGTGGATCAAAGGAGAAAGCCAGGAGTCTACACC
AACGTCTNGAGATCACGAACTGGGATCCAAAAAACCATTCAGGCCAAGTGACCCTTNACA
TGTGACATTTTACCTTCCGACCTACCACCCCACTTGACTGGTTTCAGAACGTTTTTNACC
TAAACCTTGGCTTTCCCTTNTNTNNTGGCCAGNTTTTNACCCTGATGCGTAAAAAACGCA
ACCGACGTGAGGGGTCCTGANTNTCCCTGGGNTTTACCCCAACTCCATNCTTNGATTAAT
GGGGG
Sequence 2691
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGCACGGTACTTTTTTTTT
TTTTTTTTTTTGGTAGGAGATGAGGTCTCATTATATTGCCCAGGCTGGTCTCAAATTCCT
GGCCTCAAGTAATCCTCTCGCCTAGGCCCATAGTATTGGGATTACGGGCGTGAGCCACTG
CGCCCAGGCTTTACTAGTTTTCCATCTATCTTTAGGCCTNCTCANATTTCTTGTGGGGCT
CCACTTCCACCAGTCACACCTTTAA
Sequence 2692
TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGCACTCAAA
AAAATTATTTCTCAATTTGTTTGCTCATACTATTGATTTTTTTTCTAGAATCTAAATAAT
TGTGAATTAACTATGATAGCAGTATGCACAAACAGTAAGTGAAATCAGACCTATTAATTC
TGAGAGGAAGGAGGTGTCAGGATTTTCACAGAAGAAGAGCACTNAGGCCAGGCGCAGTGG
CTTATGCCTGTAATNCCAGCACTTTGGGAGGCTGAGGCAGGCNGATNAAGGNGGNCAGGN
GTTTTANACCAGCCANCCAAACNTGGGGAAACCCCGNTTTTTANTAAAANTCCAAAATTT
CCCCGCCTGTANTCCCAGTTACTNAGNGGGGNTTGGGNCAAAAAATTTTTTTTACNCCCG
GNGGGNGNGGGTTTTNCAGAGNNTATAAATCGCGCGNTTNGCTTTNAAATTTTNGGGNAA
AAAAGAAACGAGTTCNCTTTTGAAAAAAAAAAAAAAAAAAAAANGG
Sequence 2693
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAAGCCTAA

TABLE 1

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ACAATTTCACCTANGTAAAATATTGATGTCATAACCAAACTATATGGCCCCGTTTCATAA
AGGTTACTATATTCTATAGAGAGTGAAGAGGTGGCCTTTCTATCCCAGCTTACCCTATTC
TTGTTATTGTTCAAATTCTCCTGAAGCTTGCATAACTAGCTGCCATCAGGTAAATGCTAT
TGGCTAGCAGAAGACTGCAGTTCTGTTAATATTAGAACCAGCAGGGGGAACTTGGGAACT
TGACATTAAAAATCTAGAAACGGAATTTTA

Sequence 2694

CCGCGGTGGCGGCCGCCCGGGGAGGTACTTTTTTTTTTTTTTTTTTTTGGGCGGGGGTCT
TTATTTGAGTTTAGGCATGATTCGAATGAAGAGGATCATGCTAATGAAGATGAAGCAGAC
GATAATGAGCGTGGCCCAGAGCAGCCAGTTGACTGACT

Sequence 2695

GAGCTCCCCGCGGTGGCGGCCGAGGTACACCTGTGGTCCCAGTTACTCCAGAGGCTGAAG
TGAGAGAGTCTCGTGAGCCCAGAAAGTTGAGGCTGCAGTAAGCTGAGCCATGATTGCACC
ACTGCACTGTAGCCTGTCTACAAACAAATAAACGAAAAAACAAAAAGACTTGTGAAAAGT
GCTGATTTTTAATTAGGAAAAGATTAAACATTGGATAGTCATGGAATTGTTTACTGAACA
TTAGAAATTGGTTGCAAGGGTCTATGCTTCTGTAAAATAAA

Sequence 2696

ACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATATGAATCACTA
AGAGTTCAGAAATTAAGCTCACTTTAAGAAAACTCAGCCAGGCACAGTGGCTCACGCCTG
TAATCCCAGCACTTTGGGAGGCCAAGGCGGGTGGATCACGACGTCAGGAGTCCAAGACCA
GCTTGACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAGCCGAGCGTGGTGAC
ACACGCCTGTAATCCCAGCTACTCAGGAGGCAAGGCAGGGGAATTGCTTGAACCAGGGAG
GCGGAGGTTTGCAGTGAGCCCAGATCGCGCCATTGCACTCCAGCCTGGACAAGAGAGCGA
GGACTCTGACTTCCAAAAAAAAAAAGGAAGAAAAAAAAAAGTTCCCTTGCCCGGGCCGGN
CGNTTCTAAAAACTAGGNGGGNTNCCCCCGGGGCTTNNANGGAATTTNGATTATCAAAGC
TTTNTCGANNNCCCGTCGACCCTCGAGGGGGGGGC

Sequence 2697

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTT
TTTTTTTTTTTTTTTTGGTANGGGACCGGGGTTTTACCATGTTGGCCAGGATGATCTCGA
TCTCCTGACCTCATGANCTGCCTGCCTCGGCCTTCCAAAGTGCTGGGATTACAGGCATGA
GCCACTGNGCCAGGCCTTTTGTCCATTTTTTATTGAACTGCCTATTNCTTCTTACTGATT
TGTAGAAAGTCTTTATTCTAGTCTGGCAGGTATTTTNTTTCAACACTTCCAAGATTATTN
ATTGGCTTTGGNAGCTAATGCTTCATTTGANAAAATGCTACCTGTATTATTGATGCCCAT
GTGA

Sequence 2698

CACTACTTAGGGCGATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACAATTTCT
TTTTTCTTTTTTTTTTTTTTTTTTTTTTTCTTTTTCTTTGAGACTGGGTCTCGCTTTGTTGC
CCAGGCTGGAGTGGAGTGGCGTGATCTTGGCTTACTGCAGCCTTTGCCTCCCCGGCTCGA
GCAGTCCTGCCTCAGCCTCCGGAGTAGCTGGGACCACAGGTTCATGCCACCATGGCCAGC
CNACTTTTGCATGTTTTGTANAGATGGGGTNNNACAGNGTTGCCCAGGCTGGNCTTAAAC
TCCTGGGCTCAGGCGATCCACCTNTTTTANCCTCCCAAAGTGNTGGGATACAATTGNGAG
CCACCACGTCCAGCTGGAAGGGTCAANAATTTTTTACATTTTTNGNAGCACAATNTGGAT
TTTTCACCCANCCTTTCCCCTTCTTTTTCCCTTTTTTANNNNCCCAATTTTTAAATCGNN
NCNNTTTTNTTTTANAAAAAAAAAANCNTTTTTTNNCCNAAAAAAAA

Sequence 2699

CTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCCGGCCGCCCGGGCAGGTACTTTTTT
TTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTCCGACCAATATGGTTTATTTNTG
CCCCAGCCAAGCTTNTTTGGACCCTGGCTGGGGGGAAAGGCACCCCAGGCACCGGCAAGT
TCCAGTCATTGCAGATCCTCCAGGTNTAGGNGTGACTGGAAGTANCCTGGGCACTGNTGC
TGGACCGTNGGATTCTCCTTCCTTNTTCCGCCGGCGGGTGGTCACCAGGACACCGCANAT
CAGGCATGTGATGAGTCCCAGGAGTCCTGCCAAGCCGATGAGGATGACAGCCCAAAAGGG
AAGGT

TABLE 1
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Sequence 2700
ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCAGTGGATGCAAATGA
AATTTTATCTTTTGAAAGTAAGAGGAACTATGGCTGGGCGGGGTGGCTCACACCTGTAAT
CTCAGCACTTTGGGAGGCCAAGGTNGGGCGGATCACCTGAGGTCAGGAGTTCAAGACCAG
CCTGGCCAACACAGTGAAACCCTGCCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGT
GGCACGCTCCTGTAATCCCAGCTACTTGGGATGCTGAAGCAGGAGAATCTTTTGAACCTG
GGAGGCAGAGGTTGCAGGGAGTTTGAGATTGTCGAGTATAGTGGATTGAGTGCTGTGGAG
CCGAGATTGCCAAGTGCAGTGGATCGAGTCCACTGCACTCCAGTCTGGGCAATAGAGCTA
AACTCAGTCTNAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCTAGAACTA
GGTGGATCCC
Sequence 2701
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTGCTCACCAA
GCTCTTGAGGCCAAGCTTGATACGGCTGTTGTTTTTTTCTACATCGTAGCCAGCAGCCGC
AAGCGCTTTCTTAAGCGCGGCCAGAGAAAACGCCGCTGCGCTCCTTAGAAGCTGCCACTG
CCTTGGTGATAAGCTCAGATACTGGGGGTCCGGATGCTTTGCGTTTCCCAGCAGTTGCGC
CTGCCTTCTTCGCCTTTTTCTTCACAAGGTGTTTTTTCTGCGGGTGCAGGAATGGTAGGA
GCAAGTGGAGCAGTCTCCGACATGTTTTTGTCTTCCCAGAAAAGACAATAAGTAATCTCA
AACTGTCAGAACAGCATGTCCCCCGCGTACCTGCCCGGGCGGCCGCTCTAGAACTAGGTG
GATCCCCC
Sequence 2702
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGGAAGGGGAGG
GCTTGGTGTTCCCTACGCGAAGGTCTGACTCAATGCTTATTCCCTCTTCTTCCTCTCTCT
GCAGACTGAAGAATTGAACCGGGAGGTCGCTGGCCACACGGAGCAGCTCCAGATGAGCAG
GTCCGAGGTTACTGACCTGCGGCGCACCCTTCAGGGTCTTGAGATTGAGCTGCGGTCACA
GCTGAGCATGAAAGCTGCCTTGGAAGACACACTGGCAGAAACGGAGGCGCGCTTTGGAGC
CCAGCTGGCGCATATCCAGGCGCTGATCAGCGGTATTGAAGCCCAGCTGGGCCGATGTGC
GAGCTGATAGTGAGCGGCAGAATCAGGAGTACCTGCCCGGCCGCTCTAGAACTAG
Sequence 2703
CCGCGGTGGCGGCCGAGGTACGCGGGTGTGAGGAGGTGGGGAGACCACCCCACCCCCATG
TCCACCATGACCCTCTTCCCACGCTGACCTGTGCTCCCTCCCCAANCATNTTTCCTGTTC
CANANAGNTGGAGCTGAGGTGTCTCCATCTATGNCTCAACTTCATGGTGCACTGAGCTGT
AACTTCTTCCTTCCCTATTAAAATTAGAACCTGAGTATAAATTTACTTTCTCAAATTCTT
GCCATGAGAGGTTGATGAGTTAATTAAAGGAGAAGATTCCTAAAATTTGAGAGACAAAAT
AAATGGAACACATCAAAAAAAAATTAAAAAAAAAGTA
Sequence 2704
TNAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTT
TTTTTTTCTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGCATCAAAAAGCT
TTATTTCCATTTGGNCCAAGGCTTGTTAGGGATAGTTAAAAAAGCTNCCTNTTGGCTGGN
GGGAGAGGCTTAGGCANAANCCCTNTTACTTTGNANGGGGCCCTT
Sequence 2705
CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTTTGAGACAGAGTCTC
ACTCTGTCACTGAGGCTGGANTGCAGNGGCGCGATCTGGGCTCACTGCAACTTCCACCCC
TTCGNTNTAAGTGATTCTNCTGCCTCANCCTCCNAANTAGCTTGGATCACAGGCGCCCGC
CACCACACCCGGCTAATTTTTGTATTTTTAGTAGAGACATGGNTTCACCAAATTTTTAAA
GAAAAATAAAGGTGCATGATCAACAATCAAACTTNTAGGACCGTCCCCTANCAGGAGAGC
AGCAGCAGNAGCAGCACACANACCTGCCC
Sequence 2706
CACTACTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAGCTNACCACTT
CTAAGAAACTCCAANAAAGGAANCATGTGTNTTNTATTCTGACTTAACTTNATTTGTCAT
AAGGTTTGGATATTAATTTCAAGGGGAGTTGAAATANTGNNAGATGGAGAANAGTGAATG
AGNTTCTACCACTCTNTACTAATCTCACTATTTGNATTGAGCCCAAAATAACTATGAAAG

TABLE 1

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GAGACCGAAAATTTGNGACAAAGGATTGNGAAGAGCTNTCCATNTTCATGATGTT
Sequence 2707
NCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGGGAGTGGGGG
TGAAGCGTGTTCTCTACATAGGCAACACAGCCGCCTAAGTCACAAAGTCAGTGGTCGGCC
GAGGTACTTTGGTAAGGAGATAGGGAAGGAATTAAGGCTATTACTCTGAAGAAAGTTGGG
GGGCCAGGGCTCCTATTTTTTTGCTGAGGAGATGGAAGATCAGGGCTTGTATTCAATAAG
AATGGGAGGGGCCAGGGGATGCCTGGCAAAAGCCTTGCACTGTGAGGTGCAGGTAGAGGC
TTTTATTCTGGTGAGAGGACATGGACTCTCTCTCTCCCCTCAGGTAACTGTGCCCTGTAC
CTGCCCG
Sequence 2708
GAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTNAATTNTTTTNCCCTTNNNNGAGACG
ACCTTTTTTGGANATTTTTTTATTTTTTGGCAAATTTGATCTTACCCTTTACCAGTTCTA
TAATTTGGNTAAAAGCTGATTATGTCCTACAATGNCAAAGTCAGCTAACTGNCGTCTACT
TAAGACTTNTGGNCATTTCCAACTTATAGAGGAAGGGNGNCTCTAAAATCTCTTCTTCAG
AAGGCACCTCACTTNTCANACTTAAAANNCCACATCAAGTGTTCCATTAAAAGAAGATAN
GGCATTCTGAGTGCAAACAAATGGGGGCTTNTTAAACTA
Sequence 2709
AGGTACATGTCTCTTCTCCTCTGACTCTGGGAATGAAGATTTTTCTACTCCCACAGGCTT
GAACTCTCCTTATAGGGAGTGGTCTTNCACATGGCCCAAAAATCAAGAAGGAAGGTCAAG
AATAAAAACCTCCCAAGGCTTGAAAACTAAGAGCTGGCACGTAAGTACCTGCCCGGGCGG
CCCGCTTCTAGAACTAGTGGGATCCCCCGGGCTGCAGnnnnnnnnnnnnnnnnnnnnnn
nnnnnCGTCGACCTCGAGGGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnAGTGAG
GGGTTAATTGGCGCCGCTTTGGCGTAATTCATGGGTCATTAGCTGTTTTTCCTGTGTGGA
AATTGTTATTCCGCTTCACAATTCCACCACCAACATACCGAGCCCGGGGAGCATTAAAGT
GTAAAAGCCTGGG
Sequence 2710
CCGCGGTGGCGGCCGAGGTACACGAGAANAGGAGACCCCAACACGCTTCAAGCTTTGAGT
GGAGAGGACACAGCCTCTGCTGNGACAGGGAACANAGGGATGCGGAGACCCTGAAGATGC
TTTTGGACAGTGGTCTGAGGTTGGGACAGTGGCAGGAGATACCATTCACCCAGGATCTCC
AGGACAAGAGATCAGCCTGGCAGTTACATGTGTTTTTTTTCAAACTGGTTGCCAGGTTGG
CATGAGCGATGACATCAGGAGATTCCGACCTTTTCTTATTGGANGGGACCGGACTNTGTN
GGACCTGGGGAGTTNAGTTGGACAAANAAGAACCTTTTAAAAGGGGNTTTCNNTTTTGNT
TTTTCCCCCCCCNCNAAATTNTAAAANACCTTTTTTTNTTTNCCCCAAGGGGNCCAAAAAAA
CCCNGCCCCCCCCCNNNNTNTTTTTTGNGGGGGANNGGGNNANTTTTTGGANAAAAATTTT
TNTCCCCCCCCCCCCCCCC
Sequence 2711
CCGGGCAGGTACCTTATTACATATGATTTTTATTAGTTTCTGGAGGCAAANGGAATTTTT
ATTTTAAAATCAAAATCTATTTTAAAAGAAATAGTTNTCAAAAAGACAACNGATGACTGG
GTGNGGNGGTGNGTGCCTGTAGNTCAGGCTGCTCGGGAGACAGAGGCAGGAGAACCACTT
GAGGCCAGTTCAGTCTAGCCTGGGTAACATAGCAGGACCCTGTCCCTAAAATAATAAAAA
AATTTAAAAACCACAATAAATGTGAGTTACAAAAAAAGTGTAACTTATGAAAAGGTCCGT
AATTTTATTATTGGACCCTTTGTTAAGGAGCTCAANTAATTTTCAGGGAAGCAAGGGAGG
TATCACCCATTTCTTGAGTTNAATACCAAATTTTCAAACCTAAATCTTTTAATTTT
Sequence 2712
CCGGGCAGGTACCCCCTGACACTCCAGAGCTACTGAGAAATACTCCTTTGTCTTTCTGCA
CTTGTAGCCAGGCTGAGCTTTGTGAAAGAAGATTGTGTATGTGTGTACTTTCTTTTTTT
Sequence 2713
CCGGGCAGGTGCGCGGGTGGGTGACGCTGGTGAANTGGCCCANGGAAGTGCACATGTCTC
TNCCTGCTCTTCCAGGGTGATTTTTTTGATGTTTGGCTCTTGGTCCTTGTTTCCACTGGC
TTTCCATCCCCATGGGGCAGAAACAGTGGCTCCTGGGAGCAGAAAAGGAATTGAGGTGGG
CAGGCAGAAGAGCCTGGATTGCTCACTGTTTTGGGAAACTTACTTNNAGANNTANANAAG

TABLE 1

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ATCCNGGAAAACCCAAAANCCTTCTTGACCAAACCATTTTTTGGGGTTTTTTTTTGNGGG
CCNAAAAATTTTTTTTTTTTTAAAAAAAAAAAGNNNGTTGNGGANAAAAACCCCGGGGGGG
GGGGGGGGTTTCTTTTTTTTTTNGTNGGGGGGGGCCCNNAAAAAAANGGGGTTNAAAACN
CCCTTTTTTNCCCCCCNNNNNNNNNNTTTTTTTTTTTNAAAAAAAAAAAAAATTTTTCC
CCNNCAAAAANNANNNNNTTTTTTNTTNNNCNNNTTTTTTTTTTTTTTNGGGGGGGGGGGN
NNAAAAAAAAAATN

Sequence 2714

CCNGGCAGGTACNCGGGGGCGCGTGAGCAGCTGCAGCGGCAGAGGCAGCATCCAGCGGCG
GCGCCAGCAGTTCCAGTCCGTTGCTTTACTTTTTTGCTTCACCCGACANTTAGTCNTTTA
ATGCCCCGAAAGNAGGAAAAGGTCCTTCCCAGGAGGAAATAACNAGTAGGGGGNCAAAAA
NGAATNGGGATTCCCCAAAAAAGGGTAAAACCTTAAAAAANCAANNNGAANGCNCCCACC
AAAGGGAACGGGTTCTTGCCCCAAGGAATTTGTTCAGNCGAAAAACCCTTNNCTTTTCCN
ACCCCAAAAAAAACCCCTTGTNNANCCCCCCAANAAACCCCAAAAGGGAAAAAANAACAT
TTTTGCTTTTAGGAAAAGGGAACCCTNNTGTTNGGNNAACCCCAAAAATTTTATTTCNTN
GNNGGGGTTTGGCCCTTTAAAAAAGGGGGGAAAAAGNAAAAAGGGGAGGGGNNAAAAAAA
AAGNNCCAAGGGGNAAAAAGGCCTTTTNGNAAAAAANGG

Sequence 2715

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TGGGAGGGAATTTTGGATTTTCCAATGGAGGAATTCCTAANTAACCTGGTTTTGGGNAAA
AAAAACCGNCCTTTTTCAAAAAAGGNANGGGNCCAAAAAATTAAAACCTTTTTTCCCCTT
NGGTNGGGGGCCCCCCCTTTTTCCAAAAAAATTTTTGGGTTCCTTTTNCTTTCCCCAACC
CGNAAAGGGGGTTNGGGGGAAAAATTGGGAAAAGGGAAAAAAAAAAAAGGGAACCCCCA
NACCCCCCCCCAAATTTTTTTTTTTTGGGTTTAAAAGGAAAAAAAGGGGGGTTTGGGGGNG
AAAGGAAANTTGNCCCTTGGGGCCAAACCAAGGGGGGGGAGGGGGGAACCCCCAANGNGA
ATTCCAAAAACCCAAAGGGGGGCCCTTTTTAAATTTTTAANGGAAAAAAGGGAAAAATTN
NGGAAAAACCTTTAAAAAGGGGGNGGNGGTTCCTTTAACCCCCCATTGGGAAAANTTAAA
TTTTTTTTTT

Sequence 2716

ACTTTTTTTTTTTTTTTTTTTGTCAGAAAAACTCCTTTATTACCATCTCCCTATTACATT
TCTATTCTAGGGTTAGTGTTAATCTCAGGGTCTTATTTCTTTAAGCACNGCNAAAAAGGG
CCTTTGGTAGGAAAGTTAGGTGGTAAAGGTTTTTCAATCCTTTCNATTTTTNTAATCCAA
ANGGGGAATTGGAAAAAATTCCANAAAGGNCCATAGGGGNAGGCCNTNGTTGGGACCTTA
GGGGANCAAATTAACCAGGTTTAGGGTCCTTAGGGGGGCAATAAAACTTTTCCCCAAAAC
CCAACCATTTTTAAGGGGGGGAAAAAAAGGCCCCCCAAGTTTTTGGGGAAAACCCACCNA
GGAGGCCTAATTAGGTTTTGGGGCCTTNCAAAACCCCCCTTTTAATTTTCCAAATTGGAA
NCCAAATTTCCGGGTNGGTTTTTTTCNAACCAAATTCCAANTTTTTCCAAAAAAAAAGGT
TTTTTTTTTTTGGGTNGGGGGNNAAAAAGGTTTCCTTTCCTTTGGTTAAAGGNTTGGGAA
NCCCCCAANCCCCCTTGGGAATTNAACCCTTNGGCCCCCTTGGGGGGGGGGAAGGGTTTT
TTAATTTTTTTTTCCC

Sequence 2717

AGGTACTTTTTTTTTTTTTCTTTTTTTTTTTTTTGGTGGGGGTGTATAGGTCTGGGGAGNGC
CTTTCAGGTGCTGCTCCATAGACATGTGTGTGCCCTGTATAGAAACCGCCCCCCATTGTN
TAGAAAAAACNNCCAGACNCTTNTCCCAAANAGNCNNGNTTCTTNACCCATGTAAANNGG
AAGGNTGNGCGTAATTAGGAAAACCAAGGGCTCAACCANANAGGGCCAAACCAATTTAAT
TAAAAATTCCGGTTCTTGAAGACCCTTTGNCCAAAATGNATTACCTTGTCNCCCAATTTT
ANAGGGGAAGGCCCCTATNTANNTTTNTNTCTCTTTGTCTGGTGGGCCCCCCCCAACTTT
CAAGGTTTGCCTTNGGNCTNCTTACCTTAAAANTNAGNNAAACCAANGGCGGNCCAATNA
AAAAANGGCCAAAAGGGGGNCTTTGGTTNAAAAAAATTAAAAAAAAAAGGTTTTTANTTT
TTAANCCAATTAAAAATTA

Sequence 2718

TABLE 1

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TCGCGGTGGCGGCCGAGGTACANAGTCTTTTGCTTCCTCCCACCCCTAGGGGGAAAAACT
GCTTTGTGCTTTGGGAAGTTGTCTCTGAAACCCGGTNGNACAGATTGTACCGTCATTGTA
CCAGGACCTTACNGCANCGGNNAANGCNCCGGGNGCAGGGCATTNGGGGGNCCTTGGCCA
AGTCATTGNTTNGNGAAATGNGGAAGGNGGGGATCTTTTACCAAGGAAAGGGGTATGGAA
NGTTANGNAGGNTTCCCNGGTGTAAAGAAAAGGTCCCAATGTNATNAGGACCCCCCTTGG
GAAGTTAAAANGTCCCCCCATGGTAAGCGGTCCCAAGAGGGTTNTTGTANTNTAANGGGA
AGNGGNGATNTGNGGGNAAAAAAAGGGATTGNNAAGANCCCAAATTTACCGNNGGANATC
CCTTTGGGGNGGNGCCCCTTTGGNGTGGAAAGAGCCCNCCCGATTNTAAANCCAAACCCG
TGCCTTACTTTCCCNTTCNCCNNAATTGGTTTTTAAAAAAATTANGNACNCAACCCCCCT
TTTTTTTAANGGGNAAAAAAAAAAAAAATTTTTTNCAAACCNAAAANGGGTTTTCCCCCC
CCCCAAANTTNCCCAAACCAAAAAAAAAAAAAAAAAAAATG

Sequence 2719

GCCGAGGTACAAACGGGTTTCCCACCTTGCCAGGGATCCTGGGGACAACAGATGTAAAAC
TCCTGAGTCTCTGTGTGTGTGCCTGAGTGGCCAGTCTGCCAGAACTCCACACAGCTCTGT
GTATTGAACCCAAGGCCTTGGTGGCCTGGGCTCATGAGCAGGTCTCCTGATCCATGGATT
GCAGAGATCCATGGGAGAAGCATGATTTCCCAGGCAGGGTCGCACATTCACTCATTGCTT
CCCTTGGCTGGGGATTGGGGTTCCTTTGGCTCTGTGCCACTCCTGGGTGGGCCATTGCCT
CACCCTTCTTTCCTCAGTTCTTCGTGGGTTGTTTGCCTAGTCAGTCACAATGTGAGAACC
TGGCGATTTCAGTTAA

Sequence 2720

AGGTACACTCGCCAGCGGTTTTGCCACAGGAGTGTACGGGAACAAAGGAGACAGGCTCAT
TTATAATCTGACGCGGNCACCCTNCTGCTGCGTTCGGTTTCCATTGGCTGGGACNGNACC
TCACCTTCTGTATTTGTCCCGACTGGCTAGCACTTAGAACTTTTTAAAAGAGGCAAAGGC
ATACAGAGANCAAAGGAAGGAGGAAGTNACTTGTGGAATATTGAGAAAGGTAAAAACACC
TTTAAATAAGGAAGAGGAACAGGCTATGACCTAATGCTTGTTNGGATCAGTATAAGCATG
TTAGGGCAAATATTTANGCTAAATTGTGGGAGCTAAGAACATAAAGTATATTGATTTTTT
ATTATGGCTAGCA

Sequence 2721

AGGTACAATTTAATTTTTCTGCTTGCCCNGGAAACAAAGCTTCTGTGGAACCATGGAAGA
AGATGAAAATGAGACTGGCAAAGAACAAATGCTGAATCTGAAGAAGAGGACAACTTTGGG
CAAATAATCTGCATACTTTTAATTGGGAATAAGATGGAAAATATGAATGCTAAATCAAAT
TTTTTAANNNATACACCACACGATACGACTCCCCGCGTACATCTTTGCTGTGGCTCACAG
ATTGTTCCTCCCATTCCCCTTGCCGCTTTTTGCCTATCGATGGGTAGCAAGAGTCTTTGA
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CATGAAATTGCCTCACC

Sequence 2722

CCGGGCAGGTACTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTTNTTTTTTTTTTTTTGGG
GGGNAAAAAANNTTTTNNNAANANNNGANAAAAAANNGGGGGAACCNNNNGGGGGNNCNC
NCCCCCNNAAAAAAANGNNCCCCCCCCNNAANNNAAAAAANNANTTTTCAAAAANNAAAA
AANGGGAANTTTTTTANCNAAAAAAANNTTTNTNTAAANNNNNNTNTNNGGGGGNGGNGN
TTTTNAAAAAAAAAAAAAAAAAAAAA

Sequence 2723

GAGAANGACACCATGTGCCTCAGAAACTGCTCGGTCAGACGGTGATAGCGAGCCACGCAT
TCACAGGGCCACTGCTGCTCACAGAAGCAGTGAGGATGATGCCAGGATGATGTCTGCCTC
GCGCCTGGCTGGGACTCTGATCCCAGCCATGGCCTTCCTCTCCTGCGTGAGACCAGAAAG
CTGGGAGCCCTGCGTGGAGGTATGTGGCTGGAGTCAGCTCCTCTGAACTTTCCCTCACTT
CTGCCCAGAACTTCTCACTGTGTGCCCTGGTTTGTTTATTTTTGCAAAAAAAAAAAAAAA
AAAAGTACCTGCCCG

Sequence 2724

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCCAATGA

TABLE 1

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ATGGTAACTGATCCAGGCACGTTATCACACTTCCTAGTCATCTCCACCTTTCCTGTATTG
CCTGTGGCTTGTTGTTTAAGATTAAGAATCAAAGAGATTAAGAAGTATCACTTCAAGTCT
TGCTCTGCTCACTTCTATGTTTGCAGTCAAATTATTCCTTATGTTGGTGACCTAAAGAGA
ATTACTTTCATTCATTTCATTTCCCCCGTAGCAGATGGAAGTGAGAAACCTCTGAGAAAA
TGAAAACATCCTTAACCACTATCTTTCCCTTTTATTTGATTATTTTATGTCAGAAATTTG
CAAAAGTTTTTTTCTCCTCCTTCTCTTCCTTGTTGCTTAACTTTTTAATTCATGCCATAT
GCAGATATCCAATTATGTGCATCCTGTGAATAAACCACGTCTTGGTCACTGTCATATTTT
GAACCATCTCATCAGAGATGAATAATA

Sequence 2725

CCGCGGTGGCGGCCGAGGTACGTATTACTGTTTCCCATTATATGTTACAAATGAAATGAA
CACATTCTCATAAGTTAAAAAAATATAGAATATATATTTTTCTTTTTCCTTTTCTTTTTT
TTTTTCTGAGACAGAGTCTCGTTCTGTCACCCAGGCTGGAGGCTAAGGTGGGAGGATCAC
TTGAGGCCAGGAGTTTGAGATCAGCCTGAGCAACATAGTGAGACCCCCATCTCTAAAAAA
AAAATAAGAAATAAAAATCAGCGACGAGGCATAGCGGCTCATGCCTGTAATCCCAGCACT
TTGGGAGGCCAAGGCAGGCAGGTCGCTTGAGGTCAGGAGTTTAAGACCAGTCTGGCCAAA
TGGGGGAAACCCCTTTTTTCTTTAAAAAANTNCCTTTTTTTTCCCCCCCATNGGGGGAAN
NCCCCNTTTTTCCCCNCCCNCCNNNGGGGGGGGGGGGGGGGGAACCCCCCCCCCCCCC

Sequence 2726

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTCCAAAACAA
AACATGCTTAGCATGCACACTTTTACCACTTTTTTCGAGNGGAAAGTTTATTGGCAATAT
TAAATTTCACCCTAGATAGGATATGAGAATGTTTTGATAAATCACAATTTATAGTATATT
AATGCCATGTGAGAATTTTGTTTCCCAAGTAAGAGCTCACATGGAACTTGGTCATTAAAC
CTTAAAGAAACCTTTCTCACATATCTATAGGCCTCAAATTGAAATAATCTATAAATGAAT
TTGTAGATTTCTTTTTAGTTTAATTCCTGAGTATACAGGGCAAAAGCTTATNTCCTTTAT
ATAAACTTCTGCTTTGGTCTAAAACTGATATATCTTCACGTTGAGGTTTCATCTGAAATG
CACCACGTTTGCTGACTTGCTTCAATATGAATTTGTATGGCTATAAAATTGNGC

Sequence 2727

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCGGGACTTTAGATA
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AAACCAACTACTAGGTNCATATCCCCAAAAAATGAAGTCAATATGTTGAAGAGATATCTG
AACTCTCATGATTATTGCAAGACTATTCACAATAGCCAAGATNGGGAATCAACCTAAGTA
TCCATCAACAGATGAGGNGATAAAGATAATGTAGCATATNTATACAACAGAATNTATTCA
GCCTTAACANCAACAAAATAAATNTTGTCATTTAAGACAACACAGATAAACCT

Sequence 2728

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAACTCCACTAACCTGGGAACCTT
GCCCCCATCCCCCATAGCANCCACAGCGAGACCTGCCCAAGGAGAGTCTGAGCTCAGACA
TGCCTAGCCCTGCCCCAACTTGATGGGCCTTCCTATCTACCCTGGTAGCTGAAGGCAAAG
GACATATACCCTTGGGAGTTCTAGGGCCCCGCCCATCGCCAGTTCCTCTCCATACTACCA
CAGCTGATGCTCTCTGGGAAGTGCCACCTCCCAGCAGCAGGCCAATCAGCACAAAAATAG
AACATTAAACCACCAAAGCTAANAACCCTCAGAGAATCCATTTACCCCCCT

Sequence 2729

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTCCCTGTATTTTTCTTTTTCCC
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CAACCTCCGCTTCCCAGGTTCAAGCGATTATCCTGCCTCAGCCTCCCAAGTAGCTGTGAT
TACAGGCATGCATCACCATGTCTGGCTAGTTTTTGTATTTTTAGTAGAGACAGAGCTTCA
CCATGTTTGCCAGGCTGGTCTCAAACCCCTGACTTCAGGTGATCCACCTGCCTCAGCCTC
CTAGAGTGCTGGGATTACAGGAATGAGCGACCACACCTGGTTTGTTTCTTAAAAAACATC
TTATATTTCTCTGCTTAACGNGCTCAATGTTGAACATGTGAAATATAATAACTTTTCATA
ATCTCTTCTGATTCTGGCTCTATATCATCTTTGGGGNCTGGTTTTAANGGAATTCTAATT
TTCTTGGCAAT

Sequence 2730

TABLE 1

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CTATAGGGCGAATTGGAGCTCCCCGNGGTGGCGGCCGAGGTACACGAGTCTTTTGCTTNC
TCCCACCCCTAGGGGGAAAAACTGCTTTGTGCTTTGGGAAGTTGTCTGTGAAACCCGGGG
ACAGAGGACNCANGACAGACTAGGANNGGAGCCGNGAGGATGGGCTGCANCTGTNGAGGA
GGGTTTCANAGGANAGNGGTCNGATAGCACCAGGCCTGAGAAGCCATAGCCTAGGTGGAN
AGAGGTTTGAAAGNGACANAGCGGGCTGATTANCTGCCGTANACNCTTTNATNCCATGTT
ANATAAACATNNTTNAAAAACCCTTCNTNTTGTTCCCAATNNTANAAAAATTAANCCCGG
GCNATGGGGGGGCNTGCCCCCTNGTNATTCNCTNTTTTAATNAANAGAAAGGGNTTGNCC
CCGGGTNANTTTTANTTTTNTNACTTTNNGGGNGGTTTNTNTTTTATNNTTNTNANAAAA
ANAATTGGGGNGNTNTTCAAANNNATTTNNTTGTTNNAATNTTTTTATATTNTTTTTTTT
TTNANCTNNCCNTNNNAACAAAATTTTTTTTTNTNTNNCATATAAAAAAA

Sequence 2731

GGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTAGTTATTTTAAATTCCACTCATA
ACTTATCGGCCAAAAGTAGTCACATGGGTCCACNTAATNACAAGNGGAGCGGGAAGTGCA
ATCCTACCTTGCCTGGGGAAGGTATAGAGATAGACCAGCNCTAATGACTACCACACTTNG
CTAAGGTNACATAATAAATAAGCATCAGGACATTATGTGTGGNGGCTCATGTCTATAATC
CCAGCNCTT

Sequence 2732

CTATAGGGCGNATTGNAGCTCCCCGCGGTGGCGGCCGTGNGCNCGGAGNTGGTATTGACA
TAGCCTTTGTAGAAACAGTGCTTGAGTTCCGCTTCNTCTTCGGAATAAAACTTGGTCTGA
TTCACCCCGGGCGTCCCGAGGAGGGTGACAGTGAACAGTGGAGCGATAAATCCGGCATTG
GCGGTGAGATTAAA

Sequence 2733

AGGCGGGCGGCNGCCNCNCNCCNGGTACCTGATAAAAATTTANTNCTCCTTGGCCAGGCA
TGGNNNCTCACACCNGTAATCCCAGCACTTTGGGAGGCCAAGGCCAGCANGTTGCTTGAG
CTCAGGAGTTTGAGACCAGCCTGAGCAATATGGCGAAACCCCATCTCTACAAAATATACA
AACATTANCCAGGTGTGGTGGCNAACGCTTTCAGTCCGAGCTACTGATGAGGCTGAAGTG
GGAGGATGGCTTGAGCCTGGGAAGTGGAGGTTTCAGTTGAGCTTGAGTTTNATGCCATTG
AACTCCAGCCTTGGGCGACGGGNAGACNCTNTTTTNAAAGAATTTGGAAAAAAAAAAAGG
GAAAAAAAAAANNNNANGNCCCTTGGGCCGNNATTTNAAAAAANATGCNCCNCCCCCCCC
GGGGGNTTTNNGAAATTTTNANTTTTANAAGTTTTTTCNNNCCCCCNGGGGGGGGGGGGG
GGGGGGGNGCCCCNNAANNNCTTTTTTTTTTTTTATTTAAGGGGGANGGNCCCCCCCCNAA
AAAAAAANATNTTTNTTTTNTTTNTNNNCCCNTTNNNNANNNTANAAAAAAAAAAAAAGN
GGGGGGGGGGGGGG

Sequence 2734

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTATGAGATGGAGTCTC
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CTGGGTTCACGCCATTCTCCTGCCTCAGCTTCCCAAGTAGCTGGGACTACAGGCACCTGC
CACCACACCCGGCTAATTTTGGTTTTGTATTTTTAGTAGAGACAGGGTTTCACTGTGTTA
GCCAGGATGGTCTCGATCTCCCGACCTNGTGATCCGCCCGCCTCAGCCTCCCAAAGTGCT
GGGATTACAAGTATGAGCCACTGAGCCCGGCCTCTCTGTAGCTTTTAAGATGTTCTTAGG
TGACTTATGAGAATGAAAAAATGGAGAATTTTCCGTCTTCCTGCCATGAAATCAATTAAT
GGCAATTGCTACTGAAAGCTGTTCTGTTTTT

Sequence 2735

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTGG
GGGGTTGCTATTATTGTTATTGTTTCTAGATGAATGTGNGAAGCCAAATTATTCAGTGTC
TTAAAGACCATATTAAAAACTCCTGCCAGGCGCAGCAGCACGTGCCCATGATCCCAACTA
CTTGGGAGGCTGAGGCAGAAGGATCGCCTGAGTCCAGAAATGCTGGGCTATAGTGCACTA
AGTCAATTGGGTATCTGCACTAAGTTCGGCATAAACGTGAGGGACCACAAGGTTGCCTAA
GGAGAGGTGAACCAGACCAGCCTGGAAACAGAGCAAGTCAAAACTCCTGTCCTGATGAAG
TAGTGGGACTGCACCTGTGCATAACCACTGTACCTGCCCG

Sequence 2736

TABLE 1

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GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGACAGACGAGATCTCGAT
CGAAGGCGAGATGGCGGACGTGCTAGATCTTCACGAGGCTGGGGGCGAAGATTTCGCCAT
GGATGAGGATGGGGACNAGAGCATTCACAAACTGAAAGA

Sequence 2737

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATTAAAAAAACAGTTTAT
GTGCAAGGTGTATAAGAAAAGTAAAACATACCTTTGGTAAAAAGATTATAAAGGGGCATA
AGAATGTGGATTTTTACCTACATTAAAGGGTTAAAAACAATTATTGTTTTAAAAGTTTAA
GCAAGTTTTAAAACGTTAATTATAAAGAAAATTCTGTGTGTAAACATATTAGCTAAAGTT
AAAAAGGTATCATCCAGTTTTTCTGTGAACTGGACATTAAAGTAAAAAATGCCACAGGTT
TTTCTTAAAGCATCAACCTGCTCTTTAACAAAAATTATAAAAGGTTAAAAAGAGTCTATA
AAATCTTACCTTATGGTCAAACATGAAAAATTGGATAAATATGTCTCAAGGGTTTATTAA
AATTTCAGTTTAAAATTAATAACACACTAATATAAAGGTAAAATTTAGCTTATCTGGTAT
AAAAATCATACNAGAAACATTATTAAATATNAAATGGGGT

Sequence 2738

TCTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
TTTTTTTTTGAGACAGNCTCCCTCTGTCACCTAGGCTGGAGNGCAGTGGNACGATCTTGG
GTCACTGAAACCTCCGCCTACTGGGTTCAAGCAGGTCTCCTGCCTCAGCCTCCCCAGTCG
CTGGGATTACAGGCACATGCCACCACACCTGGCTAATTTTTGTATTTTTAGTAGAGACGG
GGGTCTNACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTTAGCTGATCCACCTGCC
CTGGGCTCCCAAAGNGCTGGAATTACAGGCGTGAACCACTGNACCCAGCCCNTTGACCTG
TTNTTTATTATTTTGNGGTTAATGCCAAATNTAAAATAATGTTTATGTATAAAGCCCCAT
NTCACAGGGGGGAANTTTTTTTAAAACAANAATTCCTTTTTTTTTAAGGAAAAAAAGGTT
TGTNTTTTTGTTGCANCCTTNTTTATTCNAANGGNTNANCTTTCANAAAAATGANTAATA
ATTCCTTTTTTTCC

Sequence 2739

TNTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACGAAGCCATCTTGGCT
CTGTGGAACCAGCTCTACATCAACATGAAGAGCCTGGTGTNCTGGCACTACTGCATGATT
GACATAGAGAAGATCAGGGCCATGACAATCGCCAAGGTATGTCCTCAGGGCCACTTAGGC
TGCCTGGAGGGAGGGCAGCGCTGCCCCCCGCAGTGCCTGTGTCCAACAGTTCAACCTTCT
TGCTGTGTAGCAGTGCTTTTGTGTCTCGTNAAGCAAGTCAGCTCACCCCTCCTTAGAGGT
TCTGGTCTGTCCAATAGAGAACGGGNGGGATTAGCATATGGCTGATTATGAGAGAAAGAA
GCAATNCTAATTTAGGGTGGCCTGACAAGCAAGCCAGAATTGCCTGTGGAAAAGTTATTG
CACTCCTGTAAGAATTCTGGACCCTATTGCTCCTTTGATGTAATGGAAAGTTAG

Sequence 2740

TNTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGAAGTGA
ACTGAGGGCCACCCTGGGAGGAAGCCGACTAGGCGAATTCACTTACTGACCGGCCTGGGC
TGCTCTGAGACATGGAGGAAGCCAGTGAAGGTGGAGGAAATGATCGTGTGCGGAACCTGC
AAAGTGGGGGTGGGGGGAGTTAANANTATTATCCCCANATTGNGGGGCGGGATCCTGCCC
CGGGGGGAAAACTTTGGAACATCTCCGCAATAAGACAGA

Sequence 2741

GGGCANGGTACCCACTTGGATGACTGGGGAGAAGGGCTGGGCTGCTGCTGGGGAGTAACA
CAGGCCTTGGGGCAGGGTTCAGGAGTTCATTAGTCTGGAGTCCAGATCGCCACCCAGGGC
CCAGCCTGATGTAGTGTTCGCGTTCTCTCAGCGCTGCAGTTTTCCGATAAAGGAGAGGAC
TCCTGTGTGCCAGAGCTCTGAATGGGAGCCTCTTCTCAGTCCAGCCAGGCAGAGGGTGAG
GCTGCCACCTTATGGCCACTGGGGGAATTGGCTCTGGGCTTGGACTCCAATAAGGGGCCG
GGAGCTGCAGAGACCTCCAAAAGGTCTCTTAACTAGTCCTCCAAA

Sequence 2742

CCGCGGTGGCGGCCGAGGTACTGCCATACCTGGCTAATTTATTTTTTGTGGAGATGGGAT
CTCACTTTGTTGTCCAATCTGTTCTCAAACTCTTGGCTTCAAGTGAGCCTCCTGCCTCTG
CCTCCCAAAATATTGGAATTATTGGCATGAGTCACCATGCCAGATCAAGAAAATATTTAT
GTATAATTTTATCATACCTCATTGGTCCTAATGTTTTTTTGCTTGTTTAGGTCCCTTCTA

TABLE 1
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GAGATAGGAGAAGAGAGAGATCCCTTTCTCGGGGAGAGAAATNCAAGCCGTCCCGATCCT
CTTAGGGCTNGGAGGTAAAATCNTTTGATAACTTTGTATTNAAAACTTTGCATCCATAGT
ATGCTAAGGCNTTNTTTTANCCCAAAAAATTTTNCCTTAAAAGTTTTTTNGAATTNGCNC
AAAAAGGGCCCCNAANACCCAAGNNAAAGGGNNGGNNCTTTTTTTTT
Sequence 2743
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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NNCCNTTNNTNNNAANCCNTNAANNAAAAAAANNCCNNNAAAANNAAAAAAAAACCCCAA
AANNNNNNTNNNAAAAAAANCNTNGGNNNAAAAAAAAAGGGGGGNGNNANTTTNNNNCCC
CAAAAAAANGGTNNGGNNGGGAAAAAATTNNTTNNCAANCCANAANTTNANTNCAAAAAN
CCNTNNTTCCCNTGNCCNTNNAAAAAAANGGGNACCCCCNGGGGGGGANANAATANNAAAA
AAATTTANTTTAACCCCCCCCCCAA
Sequence 2744
GGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTGAGACGGA
GTCTTGCTCTGTCGCCCAGGCTGGAGTGCAGTGGTGCGATCTCGGCCCACTGCAAGCTTC
GCCTCCTGGGTTCACACCATTCTCCTGCCTCAGCCTACTGAGTAGCTGAGACTACAGGCA
CCCGCCACCACGCCCGGCTAATTTTTTGTATTTTTAGNAGAGAGGGCGTTTCACTGTGTT
AGCCAGGATCGTCTTGATCTCCTGACCTCGNGATCTGCTCGCCTCGGCCTCCCAAAGTGC
TGGGCTTACAGGCGTGAGCCACCACACCCGGCCCAGTCTTGTGTCTTAAATACCATTTCC
ACATTGACACCTCCAGAATATTTATCTCTAAACCTGACCTCCAGAAGGTGCAAGCANATT
GTGTAAACCATGTCTCCACTACACGCCTAAAGGCA
Sequence 2745
CCGGGAGGTGTCCGAACAGGCAGGTTGGTGGGTTAAAGGTCTTAATCTTGACTCGAGATC
TCTCCCCGGAGTTCACAGAGTAGGCGACGAAGCCGAAGCAGCTGGAGCGCGACCCGGAGG
AGTCTGACTTCTCGTTGTCTTCATAATTTTCATTCGTTGCTTTCTTCATGGACTTGCGGC
TGGGGGAGGATCCCCGCTGGTCGCCGAGCANGCGGGCGGGTAAAGGTAGGCCGCGAGAGC
CAGGTTATNGAGAGGAGAGGAGGC
Sequence 2746
AGGTACCTGTGACTAACAAGGGGTCTGGGAGGATCTGCTGCTCCCATGCCCTCCTTTGTG
TGTTTTAAATCTGTTTGAGCCTTCTGGGCTCCTGCGAATTAGGGAGTGGCAGCTCCTCAG
TCTAACTCCTATTGNGACCAGGTTGCCTAATTGGCCCTTTGGTTTGGGCACCCACTGTCC
TTCTGCGTGGTTGGATAGATGCTGCTCCCAATGTCCCTGATCTCTTACAGACCCCTCTGA
TTCTTCACTCTTGGCTTTGAGAGCCCCTGATGCCCTGCAGTCTTGACTGAGCTTCTAATG
GTTGATCAGACCCTTGAATGTTGAGCTCTTTCCATACTAGACTTGAATATTCTCCTG
Sequence 2747
GGCGGCCGCCCGGGCANGGTACANGACATTTTCAAAGTTGCCAGTGTTACTTTAATTGGA
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NGATAATCTTTGTCGGCCTTTAGTTCACAACCGAAAAGATAGTTCTGGGGCCTNAGGGGG
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NTCANACCAGGGGCCCCCGTTTNCCTNGGATCNTTTNATAAAAAAATNGGGGGNCCCCCN
CNGNGNNNGGNNGNAAATTCTAATNNTAAANTTTTTANCCCCCCCCCCCCCCCCTNGGGG
GGG
Sequence 2748
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CAGAGTGAGCCAAGATCGCAGCACTGCACTCTAGTCTGGGTGACAGAGCAAGACTCTGTC
TCAAAAAAAAAAAGACTAGAGAATGTCAGGGAACACATGTGTATATTTAAACAACTTCAC
TTTGCATTTAAAAACTCGAAGGACAGCGAAGGTGAAATCAATTCACGGGCCACCTAAACT
TTTCAGTCTAGGACTNAGAGCTTGTANCCATNGATCTGTNGGGNTTGNACCTCGGGCCGN

TABLE 1

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TTCTANAACTAGTNGNATCCCCCGGCT

Sequence 2749

CCGGGCAGGTACAACATGAGACATGACGCCCTTCGGGACACATGCCTGAGGTAGTGACAA
TCCAACTTTGGAAGAGTGGAAGCCCTAGTTTCAAATTCAAGCATGCTTTGAGTATAAATT
AAGTTTACCTCTTTTTGCACAGCAACATGGCCAATCTTTCCTAAGCTGCTCAGCTTACAA
GAAAAGGAATCATACTGCTAAGAATTCAAACTTCAGCAGTCATAGGTAAAGTAAGGGAAG
TTTTNTAAACCNTATTTTTAGCCCCCNTACCCNGAACCCTNGNAAATTTTNGCNAGGGTT
TTTTTCAATTTTTCNAGGGACAGGTTGGGGTTTCNCTTTAAATCCANAGGGCCTTTGGAA
NACCNTGGAANAAACCAGACCCTTTTAAAAAAGG

Sequence 2750

CCGCGGTGGCGGGGTTTCGCCATGTTGGCCAGTCTGGTCTTGAACTCCTGACCTCAAGTG
ATCCACCCACCTTAGCCTCCCACAGTGCTGGGATTACAGGCATGAGTCACCACACCCGGC
CAGTAGAACTCTTTAAACCTGAAAAATCAGTCAACTTTGCAGACTAGAGGAGGATGTTGA
ACACCTATGTGTGTATTTTTTTTCTTTACCAACTATGCACCTATTTTTCAGACACCTAAA
AGTAATGTCTGTGAAACAGTGGGTTTTCTTTTT

Sequence 2751

CCGGGCGAATTGGAGCTCCCCCCNGTGGCGGNCGCCCGGGCAGGTACAATGCTTATAAAA
TTCAATAATTTGTATTAAAATACAAAATCCNATAACAACCAGGAGTTCTTCGGAAGAAAA
AAAAAATCACAAAACAACCCCAACAGTGGTGAAGAACTA

Sequence 2752

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCAAAAGCTCCCAGATTATTTGGAAACCA
TGTTTTCTTCCTAGTCCATGGTAACAAGAAAAAGCCANTGGAAGCATCATTCCAAACAAT
AATCTCCAAAGATGGTGGCAACCAAGTGTCAAATGGGGACTGCAGGCACAGAAGAGACCA
CCCCAAACCCTGCCTGGGTGGACGAAGCAGGTATGCTAGAATAGTCCTGTCCTGCAGAAT
AGGGAACGGCAGCTTGGTCGATCTGTGCCCTGGAAAAAGAAAATGAGTTGCAATAGAAGT
GACTNTAAGACAGACAATGAACCTACTNTTAAGAGAGACAGGGCCAGGCACGGTGGCTCA
CGCCTGTATCCCAGCACTTTGGGAGGCTTNAGGCGG

Sequence 2753

GGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGCAGAGACAATGGAATAAACAGCCAAG
AATGTTAAAATAGCTATTATAAATATGATCCTTATGCTCATAGAGAAAAGGAAAAATATA
AGTATAATGTGAAAAGAAATGGAAGATATAAAAAGAAATGCAACTTCTAGAGGTGAAAAA
TATGTCTGAAATGAAAACACCATATAGATGGAATTACCAGGAAATTAGACACTGCAGAAG
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AATTGTTTGAATAAAGGGNCAAAAGGTTTTCCC

Sequence 2754

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NTCACTGAAGCCTCCATNTNTGGAGTTNAAGGGATCCTCCCGCCTCANTCTCCNAAGCTA
AATTTTTTTTTTTTTTTTTTTTTAGNAANANACATGGTTTCACTATNTTTGCCCAGGCCAG
GTCTAAACCTTNCTNACTTNAANGCAANTNNCTTCTNCCTTTAANCCTTCCCAAAAGGGN
TTTTGGNATANNNTNANACNCAGNCCCTTNTNCCCTGGGCTCTTTCNTTNTTAAAGAAAG
GACACTTTAAATCANTTTTTNCNCNCNCAGAGATNAATTGNGCAACAAACANTATTANGT
TGGGGTTTTATTTNAGGGTTCCTNNCCCGGNNNGGTCCCTTTNANAAAANNTNNGGGAAN
CCCCCCCGGNGTNTGGGGGGANTTNTNANNNTNCAANTTTATTTTATTNCCCCCCCCCCC
NTCG

Sequence 2755

CGCGGGGGCGGCCGGGAANGGNCCNGGAANGGNAGTCANGCAGGGAGCGTCTGTCCGAAC
GGAGGCTAGGTAAGAATATTTCACCATGAAAATGTTAAAAGACATAAAGGAAGGAGCTAA
ACAATATGGACCCANCTCTCCTTATATGAGAACGTTATTAGATTCCATTGCTCGTGGAAA

TABLE 1
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TAGACTTATTCCTTATGATTGGGAAATTTTACCTAAATCTTCCCTTTCACCCTCTCAGTA
TCTACAGTTTAAAACCTGGTGGATTGATGGAGTACCTCGGCCGCTCTAGAACTAGGGGGA
TCCC
Sequence 2756
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTGGAGNGAAACAGGAGTGCTTTATGGTCTGAGTGGAGTGTTTG
GGAGGAGTNCCTCCCGGNTCCTGCCTTGGGGCTCACCTCCCG
Sequence 2757
CCGCGGTGGCGGCCGAGGTACATCTTCTCCTAAAAACAAGGGTAGAGCCAATGGAAAGTA
ATGGTTCTGTTACATAGAATGAGTTGTCGCCTTGATCTTAAATGATGTATTGGTAGATAT
ACTTCCCAAGTGGATTAAAAAGTTAAAACTTACAGCATAACAAAGTATTAGACTTACTGA
GGTGACTTGAATATCTCCTTTTGATTTTCACTCTATTTTTCTTTTCACCCATGGGAAAAT
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TTTCTGTAAACGATTCTGAGGCAAAGGGAAATGACTAGAAGAGGATGAGTAAACAATAAC
CTGAAATGGGAAACTCGAGGGAAGCACAGGCTTTTTTTTGGTTTGTTTTGGTTGATNCGT
TTTTTGGTCTTTG
Sequence 2758
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGGCCGGTGGGCT
CCCTGACATCCCTTCCAGGCAACCTGAAAGCACTGAAATAGCTTATGGCCCTGTGCCAGG
GACCTTGGCCCAAGCTGCTGACCTCCAGGGTGGGGAGGGAGCTACCCCCAGGAGAAGAGT
CACTCAGACAGCAGTATGAGCAAGCCAGCCAGCAGCTCCGTGCCTGCACCCAGCTCAGGG
GAATCCCAGGGGGTTCAGATGCCCAGGAAGGAAAAGGGGACAGCGCTACTGCTATGGAAT
GAGACCACCACTTCTCCTGTTGTCCTTCCCAGCTTCTCCCCAACCTCCCCTTTTCCTAGT
TTATAAGACAGGAGAAAAGGGGAGAAAGCAAAAAGCTGGAAAGAAACAGAAGTAAGATAA
ATAGCTAGACGACCTTGGCGCCCCACCTGGCCTGGGNGGG
Sequence 2759
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ATGGCAGAATCTGTAAGTGTAAACAAGCATCTTAGGAGTGAGAGATCAAGACCACAAAAT
GTCCAGAGCTATGACCACAGCTATACCTACCCATAAAATACGATACTGGAGTAGGGTATT
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Sequence 2760
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TNTGAAGCCAATCCATTANATGTCAGGAAA
Sequence 2761
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TTGGAAAGGCTTTCTAGATATTCAGAAGGACCGTAGGTGTTGTGATCTAAGCTGTATCTG
CTTTAGAGGGCACCCGAAGCCCCGTAATGCTCTGGTTCTTGCAGACTTCTGGAGATACTG
CCTTGATGGTCTTGGATAAGATTTGGAAGAATCCTCTGGATTATCAGGCAGAGACTCTTA
TTCTCTTTCCTCACTTTTTCCCAGAGTCTTTCTATGCTGAGCTCTCTGGAGCTGGGGGAG
G
Sequence 2762
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GGGTGAGCCTCCCAGAAAAGCCCAGCTTAGTGTAAGCCAAAGACCTCCCAAGTCTGTCAC
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CAATGGTCCCTCTATTTCAACACCTTTTTCGGTGACAGTGGCGATTTGAAACTGGAAGAA

TABLE 1

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AGCAGAGCATTCAATAATGCCCACGCCTTAAGTCCTTAAATGAAAGGTCAGGTGGAGGTC
TTCCCCAATGTGAAAATAGGAGTCACACAAGTAAGGCGNATCTGTTCTTCAAAGCATAGG
CTC

Sequence 2763

AGGTACTATAATCTCCTTCTCCACTGGCAAACAGATTATACCAGAAAACAGCAGTTCCCT
ATGGAGAACAATTTCACAATTATCCCCAAGTATACAATGCCAGGTAATTGCTTTCGGTAG
TTATTACTTTTTTTTTTTTTGAGACAGAGTCTTTGCTCTATCGCCCAGGCTTGGAGTGCAA
TGGCTCGATCTTCAGCTCACTGCAACCTCC

Sequence 2764

GCGGNCGAGGNACAANCNACTTGGGGGGGCANAAAACCNGCCCCCCCCACGANGAGAAGG
GGACNANGAGAANNNTTTACACACAAGNGGGGGANNNCCCCCNAAAAAACCGGGCGCAGN
GGCNNACACNNNGNAANNCCAGNACNNNNGGGAGGCCGAGGCTNTTTNAAAAAAATTNNT
TTNGAGGGGGGGGGGGCCCCCGN

Sequence 2765

CCGGGCAGGTACGCGGGNTTCCGCGGGGCTTGCTGGGAAGAGAGGCGAAGCCAGGTCACC
TTTCAAGGACCCAGAAGTAGGGTTTTGGCCTAGGTAACCGGGGCAGAGATGTGGTTCGAG
ATTCTCCCCGGACTCTCCGTCATGGGCGTGTGCTTGTTGATTCCAGGACTGGCTACTGTT
TNCCT

Sequence 2766

ATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACCCTCTGCTTTTGCAAG
GACTCTACTGTGTCATCTTAAGTGAGACAGGTGCATATGTATACTAGTAAAATTCTCTGC
TTTCCTAGCATTGGACAAAAACAAAAATCAACAAAAGAATTGCCTCAGTGTCTTAAACTG
GGATCCTTACTAGTTGACTAGGCACTTAGTTACTGAAGGATATGTGTGGAATTCAAGTTC
TTTTCAACCTATAAGAAATATCCGGCCAGGTGCAGTGGCTCACGCCTGTAATCCCAGCAC
TTTTGGGAGGCCGAGGCAGGAGGATCACAAGGTCAGGATTNTCAAGACCNGCCTGGCCAA
CATAGTGAAATTCCTGNCTTCTACTAAAAATN

Sequence 2767

CGGCCGCCCGGGCAGGTACTATTACTAGGTTCATTGTTTCCAGAGGGGTGAAACGGGGCT
TTGGAGAGGTTAAATAACTTGCCCAGGGTCACACAGCTATTAAGTGGTAAAGCTGGGATT
TACATGAGCCCAGACAAAGAACCCAAGAAGCTAAGCTATTNTCTTGTAATACCTNCAACA
TAGGAGGCAAGAAGTGAGGTATTATACAGGTTGAGGAGATA

Sequence 2768

CCGGGCAGGTACGCGGGCATCAGCTCCGTGGGAACTCACGAGCCTGGGGAGAGTTCGTCA
TCCCCACATGGAACCTCAGTATGGCCAACAGGCAGCCCTCTGGTGGAAAAATCAACAATC
AGTCCTTGCANCAACTTGATGGAACNCTAGTTGACCACCATAAAGATGTCAAGCCAGGCA
GCA

Sequence 2769

AGGTACTACTGCTGAGGTCTCCAGGACAGAAGTCACCTCCTCTGGTAGAACATCCATCCC
TGGCCCTTCTCAGTCCACAGTTTTGCCAGAAATATCCACAAGAACAATGACAAGGCTCTT
TGCCTCGCCCACCATGACAGAATCAGCAGAAATGACCATCCCCACTCAAACAGGTCCTTC
TGGGTCTACCTCACAGGATACCCTTACCTTGGACACACCCACCACAAAGTCCCAGGCAAA
GACTCATTCAACTTTGGCTCAGAGATTTCCACACTCAGAGATGACCACTCTCATGAGCAG
AGGTCCTGGAGATATGTCATGGCAAAGCTCTCCCTCTTCTGGAAAAT

Sequence 2770

CCGGGCAGGTACAGTTGGACCTGCTGGCATTCGAGGCCCTCAGGGTTCACCAAGGCCCTG
CTGGCCCCCCTGGTCCCCCTGGCCCTNCTGGATCTCCAGGTGTAAGCNGTGGTGGTTAT

Sequence 2771

CCGGGCAGGTACTGTAGATTGAGATATAACAAAAAGATGATTTCTGAAATAATATTGGGA
AAAGAATTTACCGGATGGTATTTTGTATCTTTGCACACCTCTGTTGTTATGATGCTATAA
GGCAATCTTGTCCAACCAGCAGCTCACAGGCCACATGCCACCCAAGATGGCTTTGAATAG
GGCCCTATACAAATTCGTAAACTTTCTTAAAACATTATGAAATTTTTTTTTTTTTTTTT

TABLE 1
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ACAATAAGGCTCTTGAAAATTGTCATTACTTGTGTTTTCCTATACATTCATCTGTGTGAA
AGCCTTTTTCTTCTTTGATTTAAAAAAATTAACTATACAGTTAATGGTTTAGAACTTAGA
ACTAC
Sequence 2772
AGGTACACTCAAAGGCTATGTTCTCTCTCAGGACTCAAGATGAATTACTGGCAGAATTCC
TCACTACATCCTTTAATGGAAACCTCTGTCGGTCCTCATCATCAGTGCTTTCATATTCTG
ATTCTTCACTAGATAATTCCTCATCCTCGTCTGGCAAAGGAGGTTCCTCAGGTGGCTGAG
GAGATGTGGGTGGAAGAGGTGCATGCAATGGCATATAGTCTTCATACATGGGAGGTCGCG
CAGTAATTGGTCCAAAAGGTGTGGGCAAATTCATTTTATTCATAAGATGAAGGACCTGTN
CCTGCCCGG
Sequence 2773
CCGCGGTGGCGGCCGAGGTACTCAATGTTTAGCTCCCACTTAGAAGTAAGAACATGCCCA
GCACTTTGGGAGGCCGAGGTGGGTGGATCATGAGGTCAAGAGATCNAGACCATCTTGGCT
AACAANGTGAAACCCTGTCTCTACTAAAAACATAAAAAATTGGCCCGGGTGTGGTGGTGG
GCACCTGTAGTCCTAGCTACTCGGGAGGCTGAGACAGGAGAATCGCCTGAACCGGGGAGG
TGGAGGTTGCAGTGAGCTGAGATGGTGCCCAACAAGAGGGAAACTNCTTNTNAAAAAAAA
AAAAAAAGAAAACACAGGTATAATTTCCTACCATGTTCTTACNGGATCATAACTTTAAAT
GGTCACCCGCGTNCCTTGCCCGGGGCGG
Sequence 2774
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GATAAGAAGGACAGATTATAATTGCTTAATATTGCTATGGTAACTTCCATTCAAATACCT
GTGAGTCACCAGAAGTCAAAAAGGTAGCCAGCATTGCAACACAGGATGGATCATGCAACA
GAAACTAGCACCAGGTTACCTTATCTTATAATATTATTTGCTGTTAAAATGAAATTTTAA
AACAGCACCAAAAGTTAAGTTGGGGCTAAAACTGTTGTGCAGGAAAGATTTCATATAGCA
G
Sequence 2775
TGGCGGCCGCCCGGGTNGGTACCAAAGCCAGATCCTCCTGTTTTGTAGCAGGAAGCCCTT
TATTAGTTNNTCTCTATCAATCCATCTTTNATAATNNCCAAAATAGGATAAG
Sequence 2776
CCCACGCGGGCGAAATTTTGGGGAGGGCAAACACCCCCCGCGGGNGGGCCGGGGCCCGCC
TCCNAGTAAACCTAAGAGGGGGAGGNTNTTCCAANNCCCCGCAGNTNNNTTAAAANCCCC
ATCAAGGCCCNAANCGGAANAACCCGGGGGGGACCCATCTNAAGGGGGGGGGGGGCCCCC
CGNGGNACNCCCAAGCCAANNANGGNNNCCCCCCGNAAAGNNGGAGGGGGGCGNAAAANA
GGCAGCCGCCCNCNNGCCGGNAAAANCAAAGGGGGNCCAAAAAGNCAGGGGGGGACCCNG
GGCGGGGGGAAAAAAAGGGAAAANCCCCGGCNCCAACCAAAANNNCNANCAACCAAACCA
ATAACCAAAAGCCCCGGGGGAAGGCCAAATAAAAANNGAGGGGNNAAAANGCCCCCGGGG
GGGGNGGCC
Sequence 2777
ATGGGGGAAAACCCCGGGGGCGGCCGCNCNAGAACTAGTGGAGGNNTCCAGCCCGCAGGN
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CNGGNCCCCCCAGNGAGGGGGAAAAAGCGCGCCGGGCGGAANCAAGGNCAAAGCAGGNGC
CCGCGGGAAAAAAGGNANCCGCCCACAACAACCACACAACAAACGAGCCGGGAGCAGAAA
GAGGAAAGCCCGGG
Sequence 2778
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTT
TTTTTTTTTTCCNCCCNAACCAGTTCTAACCGCANGNCAATTAGTTTTTNAAAAGTCTCT
CTCTTCTCATGTTTTTTCCTGCTTTGAAACTCAAGNGNTCTCTTTTACTTAATANATCAA
GATCCAACACTAATTTGACATTAAATCAAGACTCTNTACAAGTNGACTATCNCTAACNGG
CTGGGGGACTTCTGCGGAA
Sequence 2779

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ATTGNAGCTCCCCGCGGTGGCGGCCGAGGTACATTGCTGGCCTTTGCCCAAATTATGCTT
NCCCCATTTGGTATGACCTGACACCATTGTGATCAGTCTGATGACCTGGCAGCATCCCAT
CTGCCTACCCAGTTCACTNTTGCTCCATTTCAGGGCCTCTTACAGGCAACTNCTNACATA
TATTTTTGACACTGACTCATGCCTTCTNAGGCTNAGCTAACATCAGCCCATTCATTGATN
CAGCAAGACAATTTGAGAACCACTATGTGCTCTGCCAGAGTGAATAACAAAACCGCAAGT
ACCTNCCNGGGCGGNCGGTCTAGAACTAGT

Sequence 2780
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTTTNTNCCTAACCAGTTCTAACNCAAGTCAATTAGTTTTTCANAAGTCTCT
CTCTTCTCATGTTTTTTCCTGCTTTGAAACTCAAGNGTTNTCTTTTACTTA

Sequence 2781
GGGGGGGGNTTTGGGGGGGGAAAAAGCCCCGGGCGGGAGNGGACAGAAAAAGANNTNGGG
GNNGNGAGGGGGTTAGGAGNAANCCCNNGNGGGTTTTCCNAAACCCCCAGNGANGCCGGG
NCGGCNGNGCGCGCANNGGAGGGCAGNGCTATGNANCCGNCNNGGGNACNCCCAGGCCCN
GGGNNCCACGNGGCCCNNCCGGCACGNACNGNGCCGCNAAACCNCGGNAGGNCAGGCGAN
GNANCCCNCNGCANAANNGAAGGAAAAAAAGGGGAAAAGCGGGGGCAAAGAACCAACAAC
NCNGGGGGAACCACAAGCNAGGGAACCCCGNGAGAANAANANANCNGGGGANAANNNNGG
GGNGGANAGNAANAACAAAGGGAAAANGGCCCCCGAGGCGNGGAAAACCCAAAAAGAGAG
GNNAACGGGGGGGCGGNNAANNGNACCANNGGCGNAAAAAAAAAAGANAAAAAGAGGGCNN
GGNGGGGGGGGNCGNAAAAAANAACACACGGGACCCCNNNNAAGGGGGANACCCNCNCGGG
GNGCCGGGGGGGNCCCCAAGNAAAACCNNAAAGGGAGGGGNANNCCCCCCCCCGNGGGACC
CGNANNAANGGGAAAAANCCCCGGAANGAAAGNCAAAAGGCCCNNGNAAACCGGNAAAAA
ANCNCGGGGNCAGAACCCCCCNCANAANGGGGGGGGGGGGGCCCNAGGGGNAAACCCCCA
AGGCCCGGGGGGGGGGNGNNCCCCCCNNNNCAANNNNNNNNNNAAAGGGGNNNCNAAAAAA
AAGCCAGCCGGCCNGCGGGNNCGGGAAAAAACNAACGGG

Sequence 2782
TCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATGCCGATCTCTGAGAAGTTNTGTTGCA
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GCTGAGGATCCTTGAAGGAACCTGGTCAGTCTCCGGTTCAGCTTCCGACACCAGAGTGGA
ACCCAGTAAGCACCATCAGGAATGGATTTCACTACAAGTGTGGATAACTCTGATTTTCAA
AGGAGTAGTTACTTGCAAATTACATCCTTGCTGAATTCAGGAGGTATGAAACCCTATTTT
ACCATGTTAGAAAACAGCCCAGGATTTTCTCATTGCTCTGCCATCATATATGTCTATGAC
TTGAGCCCTTATTTTTCCATCTGCAAAACAATAATGCCTATATGTCTTTGCATATAGATT
TGGAAATCTTCATTCAAGGTTTAGTAGGATCA

Sequence 2783
CCGCGGTGGTCGAGCGGCCGCCCGGGCAGGTACTTTTCTTCTTGAAGTGAGTTTAGATCA
CGTTTCAGCAAACGTCCTCTGGAGCTCCTTCCTCTGGGGAAGGAGCAGCGGAGGGCTGTC
ATCACCACTGCACTCTTCCAACCTTCTCTTCTGCTCATTCACCAGTTCCATCCTCATCTG
ACCATATTACTCCAGGAACTTCCCTTTTCCCTTGTAAATTCTGTTCCATTTTTGGCCAAA
CCATGGTTTGCCTCTGCTGCATTAGTTTGAAGTCATTTTTTTTCCAGACATTGTGGCGGT
AGTTCCCAGATGTCCGAAAAGATGAAGTTATCAGTGCACGAGCAGCCAGGGCTTTTCTTT
ATGTTGATTCACCTTAGGACACAGCCCAACAATGCCTGCAATTGTCATTAGCCCGTGAAG
AGGTTCGCTTAGGGCTGCCACAGCACAGAGTCCCAGCTGCGCCCGTTTCTTCCCCCCCC

Sequence 2784
CCGCGGTGGCGGCCGAGGTACTAATTTTTTTTTTTTTTTTTTTTTTGTATTTTTAGTAGA
GACGGGTTTCACCTTGTTAGCCAGGATGGTCTCTATCTCCTGACCTTGTCATCCGCCCAC
CTCAGCCTCCCAAAGTGCTGGGATTATAGGTGTCAGCCACCGCGCCCGGCCTGAATATCT
TTTTTATTTTTAAGCTTTCAATAAATCTTACTGACATCTAATTGATAAAAGTTGCACATA
TTTAATGTATACATTTTGATGAGGTTGGACATATGCATACACTNGTGGTACCTGCCCG

Sequence 2785
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT

TABLE 1

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GAGACGGAGTTTCACTCTTGTCACCCAGGCTGGAGTGCAATGGCGCAATTAGGGTTCACT
GCAACCTCTGCCTCCCGGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGA
TTACAGGCATCCACCACCGTGCCCAGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTT
GCCATGTTGGACAGGTTGATCTCAAACTCCTGACCTCAGGTGATCTACCCTCCTCGGCCT
CCCAGAGTGTTGGGATTACAGGCATGAGCCACCATGCCAGGCTGCTAATTCTCCTTTTTA
GTGAGTTAGGGAACTGAGCCTCAGAAAACTTAAACGATTTCTCAGAAAACACTCAAGTGA
TAAAGTGGCCCCATTGGAAAGGAGGTTTTTATCTTCTCATTGGCAGGCCCAGNGTTCATT
GCACAATATCATGCTACCTCTTGGAATCTTTTAAAA

Sequence 2786

TCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAATTTTTTTTTTTTTT
TTTTTTTTGTATTTTTAGTAGAGACGGGTTTCACCTTGTTAGCCAGGATGGTCTCTATCT
CCTGACCTTGTCATCCGCCCACCTCAGCCTCCCAAAGTGCTGGGATTATAGGTGTCAGCC
ACCGCGCCCGGCCTGAATATCTTTTTTATTTTTAAGCTTTCAATAAATCTTACTGACATC
TAATTGATAAAAGTTGCACATATTTAATGTATACATTTTGATGAGGTTGGACATATGCAT
ACACTCGTGGTACCTGCCCG

Sequence 2787

CCGCGGTGGCGGCCGAGGTACAATACAATCTAGATGACGGTGCAGACTAAGTCAAGAACT
AAAGTTGTGCAGTAACCCGAGTTAAGGCATGAATGCGGACACACACATGCACACACACAG
CACCCATGCTATCAAGACACAGGATTTTTTCAGTTGCCTCATGAGAGGCAACCTGGGCTT
GGCAGTTAATCAGAACTGCTGAGCATTCCAGAAAATGCCCCCCACGACTTTATGCTAACA
GCTGTGTGTATGTTTTAATCAAAAAATTAAAGAAGAAAAAAAACCTAAAAAACAAAGAAA
AAAACAAACAAAAAATCACCAAAAACCTAGAAACCCCTTAATCTCTTACAATGGCTCTTG
AGCATGGAACTCATGTAGCAGCATCAATGGCTGGCTCTTTAACAATTTGGAAATAAAAGG
TTGGTTTACTATGTATTTCTTTGGTAGTCATCACTACCAAAGTT

Sequence 2788

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTGCTTTNATGTCTTTA
TGTATTTATTTTTTTTTGAGACAGGGTCTTGCTGTGTTGCCCANGCTGGAGTGCAGTGGC
CTGGTCATGGCATNAAGGCTCACTGCAGCCTGGACCTCCTGGTTCAAGNGATCCTCTTGT
NTGAGTCCCCTGANANAAAACCCCACCCCCNNCTACANAAATTTTNTGGAAACANGGGCN
NNAANCTGTTNCCTANGCNTGTNTGGAACNCCTGGGCTCAAGGGANCTTGTANCCTTANC
CNCCTAAAANAGCTGGGANTTATAAGGCATGANNNAATTGTANCCTGNCCCGGCGGGCCN
CTTTANAAAAAGTNGGAANCCCCCCGNCCTTGCAGGAAATTTCATTATNCAACCNTNTNN
NAATCCCCCCCCCCCNCCAN

Sequence 2789

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAG
NAGANATGGGGTTTCACCATATTGGTCAGGCTGGTCTNGAACTCCTGACCTTGNGACCCA
CCCGCCTTGGTCTCCCAAAGNGCTGGGATTACAGGCATAAGCCCCCGTGCCCGGCCCACA
TGGTATTATTTTATATAAAACGCAAGTTAAGTNTTTATGTGTGAAAAACTTTTTTTGAAA
CTTTNTCAAAAAGAANTTNACTTATTNGTTAAAACCNTTTTTTGNCCTAAGGGCCAAATA
NGNGAAAAAAAANCCCNNATTNNNCTTTTTANATTTTTNTTGGCNAAAANTNNAAAAAAN
ATTTNNCNNNTTTTTTTGGNGNNANTAAAAAAAAAGGGTTTTTTTNNTTTTTTAAAA

Sequence 2790

TACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTGAGACGGAGTTTCACTCTTGTCACCCAGGCTGGAGTGCAATGGCGCAAT
TAGGGTTCACTGCAACCTCTGCCTCCCGGGTTCAAGCAGTTNTCCTGCCTCAGCCTCCTG
AGTAGCTGGGATTACAGGCATCCACCACCGTGCCCAGCTAATTTTTGTATTTTTAGTAGA
GACGGGGTTTTGCCATGTTGGACAGGTTGATNTCAAACTTCTGACCTCAGGGGGAATTAA
CCTTCTTNGGCTTCCAAAAAGGGTGNGGGATNAACNGGGTTGNGCCCCCCCCCCCCNGGG
GGGGGAAAAAATTCNNTTTTTTTTNGGGGGNNGGGGNNNCAANNNCCCCCCNAAAAAAAAA
NNNNAAATTTTTTTTTTANAAAAAANNNANNCCTTTNTNAAAAAATGCCCCCCNCCCCAANG
NNGNNGGGNTTTTTTT

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Sequence 2791
GGTCTTCTATGTGGGTGTCAAGGATATGCTCCCTCACGGCTTCCGAAGGCCCCCAGCAAA
AGATCTAACATTCTTGCTCAAAGTTGCGAGAGAAAGTAGCACATGGAGTAGCTGGGTTGG
GGCGGCGGCCTCTTCTCTTCAGCTCCCTTAGCTTGGCTCCGTAAGTGGATCACTTGCCAA
ATGCTTTAGATGATTGCCTCTCAATAATTGAAAGGTGGTGGTAAGTTGTATTGCTGCACT
GTCGGTGTTAAGAGAAATTACTCTCACAAGAGCAGAGGCCTGAAGATTCTTTCTTCTGAA
GGGATGATGAGCCTGGACTCTCTGGACTCCTAGATTATGAACTCCTGCAGTGGACCATGT
CCTATTTTTTGGAGGGCGTTGGG
Sequence 2792
CCGCGGTGGCGGCCGAGGTACCTTCAATACCTTTAGTTGTCTCCCACACACGCGTGTGTG
TGTGAAATCTTCTACAATATCTTCCCTTTTTTAGACCATGTTCACTGTCAAAAAGGTGCT
TTAAGAGCAGTCTTTGGCTGGGCACGGTGGCTCACACCCGNAATCCCAGNACCCTGGGAG
GCCGAGGCAGGCGGATCACCGAGGTCAGGAGATCAAGACCATCTTGGCTAACAGGATGGT
CTTAAGGGACAGNGAAACCCTGTCTTNAACTTAAAATACAAAAAATTANNTGGGCGTGGT
GGGNACCGCNCCTGTAATCCCANCTACTCAANGAGGCTNAAGGCAGGANTAATCACTTTG
AACCTGGGAGGTAGAGGCTTGCAGTTGAGCCAAGATTGCACCCACTGCACTTTCANTCCT
GGGCCGAANAANAGCCANGGACTTTCATTTTTAAAAAAAAAAAAAAAA
Sequence 2793
CCGGGCAGGGACCNCGGGATGGTGNCAACTTATGACAGGACCCATGGGCCCTCCCNATGC
ACACAGNACTNTTGGAATCTNATCCTTTTCCATGGCTCTGGCTCACACTTNCACAGNATT
TACTCCTAAATATGCCCCCTGNGTTCA
Sequence 2794
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACANATTTGAATGGCTTTGA
CTTTTGGCAGCTGCACAGNGCTAGGACTGGACCATGAAATATCTNTGGGCTNTGNCAATN
ACATTTGGGTTAANCTAANCCTGATCCCATGTGTTCCTGGAAGAGAAGCCCCATGACATT
CAAAGTCCTTGACAATNTGACACCAGCTTTTNTAACCNTATAAGGCCC
Sequence 2795
ACTACTATAGGGCGTCGAGCGGCCGCGCGGGCAGGTACGCGGGCACACTGAGGAATTATG
ACTACTATGCAAGCCGAGTTCCAGAATCTATTAAAAATGCACTTGTTCCTTAAGGGAAAG
TTTCATTTGGCCGGGCGCGGTGGCTCATGCCTGTGGTCCCAGCACTTTGGGAGGCCGAGG
CAGGTGGATCACTTGAGCTCAGGAGTTTGAGACCAGCCTGGGCAATATCGTGAGACCCCA
TCTCTACAAAAATACAAATTAACTGGGCATCCTGTCATGCGCCTGTCGTCCCAGCTACTT
GAGAGGCTGAGGCAGAGGAATCTCTTGGGCCCGGAAGGCGGAGGTTGCAGTGGGCTGGGA
TCGTGCCACTGCACTCCAGCCTGAGTGACAGGAGTTAAGCCCTGTCTCAGAAAAAAAAGA
CAAAAACCCAAAAAGTACCT
Sequence 2796
TACAGAAGCCGGGAGCATAAAGACGTATAAGCCTNGGGGGTTGCTCTAATGTAGGTGAGG
NTAACATNACATTANATNTGNAGTTGNCGCCTNACTTGCCCCGCTTTTTCCAGTTCGNGG
TAAACCTTGTCNTTGCTCAGCNTGCATTTTAATTGTAATTNGGTCCAACNGCGCTGGANG
GAGNAGGCTGGTTTTTGCCGTTATTTGGNGCCGCTTC
Sequence 2797
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATGATAAT
AAGATGCAATTTGAATCTTCATCATACGAAGGATACTTTCTAGCTTGTGAAAAAGAGAGA
GACCTTTTTTAAACTCATTTTGAAAAAAGAGGATGAATTGGGGGATAGATCTATAATGTTC
ACTGTTCAAAACGAAGACTAGCTATTAAAATTTCATGCCGGGCGCAGTGGCTCACGCCTG
TAATCCCAGCCCTTTGGGAGGCTGAGGCGGGCAGATCACCAGAGGTCAGGTGTTCAAGAC
CAGCCTGACCAACATGGTGAAACCTCATCTCTACCAAAAAAAAAAAAAAAAAAAANGTACC
TGCCCC
Sequence 2798
CCGCGGTGGCGGCCGAGGTACTGAGCCCTTCATTCCCCAAACTCAGACTCTTAGCTCTTT
TGTCAACTCTGGGCAAAGGTCAGCATTGGAATCGAGCGGCCGCCGGGCAGGTACATTTTC

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TCTCATCCACTTCCGATTCTCTTCATTGGCTGCAATATCTTTTTCTTCAAATCCTATTTT
GTTGGCTTCTAGGAAACCAAGCACATCTTGTTGTTTCTTCTTAATCGCTGTAGAGCCAGA
GGAAGATGCAATATATACACCGGATCACCATCCTGGGAACAGCGGCTGCGGTTGTTTGGG
TCCTGAAAAGGGCTGTGGAGCAGCTGCAGCAATGGCTGGAATCCAGCTAGGGGCTGAAAC
AACGGTTGGCAGAGAAGGGTGGGGGAAGTGGGAAAAAGGAAGAACTCGCCAGAAGCCCCG
CCTTCGNCTTTAGCAAGCTTCCACCGAGCTCTTCTAAGCGCTTGAGTTNCAGCCAAAAAC
CCCCCCCCG

Sequence 2799

AGGTACTAACCTCTTACCTTCCAAGGTGGTAGAACATGCTTGAAAAGATAGTAAGTGAAA
AGGGGTAGCCAGTGCTTTACTCACAAGACTGCTTGAACATGAGACTCAAGGAGGGACCTC
AGCAGGCCTGGGGTGTTCAGCAACTATTCCTGGCCGGGGCATCTTGCAAAGGAGTTGCTG
TGACAGTAAGCTCTTCCACTTTGAGACCGTCACCTCAGCCACGGCTCCCACCTGGGCTCA
GGAATGGTCAGGCAACACGTGGGGCCCAGGATGGCGGTGGATGACTAAACTGCCGAAGAC
CGCGCCGCTGCGACTACCGAAGTACCTGCCCG

Sequence 2800

CCGCGGTGGCGGCCGCCCGGGCAGGTACAAGTATGCAAGTTTTCTGTAAACAGATTACTT
TCAAACAGTTGGGAGCCCCAGGGAGATAATAGAAGGTATCCTACTCAACAGCAGTATATA
GAATGCTGTAGAAGAGGAATATTGTAAGAACAAGAACTATCTCTTGAAAACTAAAAATAT
GATAACTGAAATATAAATTTAAATAGGATTGGAAGCTAAAGCTAGGAAATTACCCTAGAA
TGTTTTTTGAGAAATGGAAAATACCGAAGACCAAAAAAATAAAATAAAACTATGCTGTGA
AAGAGAAAGATTAGCATTTGAGAAGGCGGGAAGTTGGTCCTGCTCAGATGCCGGTTTTCA
GATGCCTTATTCTAAAAAATAGNGATAGAAAACAAATTTCTACAAAGCAAAATTACAATA
AATTTA

Sequence 2801

CTACTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGACGGGTGCCTGTAG
TCCCAGCTACTTGGGAGGCTGAGGCAGGAGAACTTGTTTGAACCCGGAGGTGAAAGTTGC
AGGGAGCCGAGGTTGTGCCACTGCACTCCAGCCTGGGAGACAGAGCAAGACTCTGTCTCC
AAAACAAACAAACAAACAAAAAAACCCTGTAGCTTGGGATCAGCCTTCTCTTCTGTTGTT
TTTCTTTAAAAAATAAAAATTAAAAATAGGCTTCAAGTGATCCTCCCGCCATGACCTCCA
AAACTGCTGGGATTGTAGGTGTGAGCACTGCACCCAGCCGTATGTTTTTTTCTACATAAA
AAACAGCACAGGATTATCTTCCAAAGCTAACAAATATGTTCAAATAACCACAACCCCAAN
TNNAAAAAAAAAAATNAAGTACCTGCCCGGGGCGGCCCCTCTAAAAACTAANTGGGATCC
CCCGGGGC

Sequence 2802

NNANGNCCCNNNAGNGAGGGGAAAANGCGCGCCGGGCGNAANCAAGGACAGAGCNGNNNC
CCGGGGGAAAAGGANANNCGCNCACAANACCACACAACANACGAGCCGGGAGCANAAAGN
GGAAAGCCNGGGGGGCCNAANGAGGGAAGCCAACCCCACAAAAAANGCGGGGCGCNCACN
GCCCGCNGNCCAGGCGGGAAACCCGGCGGGCCAGCNGCAANAAAGAAAAnnnnnnnnnnn
nnnnnnnnnnnnnGNNNGCGAAAAGGGCGCNCNNCCGCANCCCCGGACACCNAAACGCNG
NGCNCGGNCGGNCGGNNGNGGNGAGCGGGAANAGCNCACCCNAAGGCGGGGAA

Sequence 2803

NCCACCGCGGTGGCGGCCGTNCGGGCAGGTACTCCTTTCAGAGGGTCATCTCCTCCACAA
GTATTTTTTGTTTCTTTGGCTGGTCTGGGTCCAATGCTGTTGCCATCCCCAGCTTCAGAC
TGTTCTCCTTGTTTTGGAGAACTTTCTTTGGACTGTATCTTCAGAGACACTCCTGGTCAA
GGGGCCTCAGAGGACCCAAACGCTCTGAAACAGCGTCTTAGCTCATCGCCGAGTGTCAGC
TCTAGCTCTTCGGAGCGCTTTCTTCTCCCCCCGCGTACCT

Sequence 2804

CCGCGGTGGCGGCCGAGGTACAGAGAAAATATTTTTTAAAAATCTCATCAGGCTAGGTGA
GGTGGCTCGTGTCTGTAATCCCAGCACTTTGGGAGGCCACGCTGGGTAGGTTGCTTGAGT
CCAGGAGTTCAAGACCAGCCTGGCCAACATGGCAAAACACCGTCTCTACAAAAATAATAC
AAAAATTAGTGAGGCATGGTGGCACACACTTGTAGTCTCAGCTATATTACTTGAGAGGCT

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GAGGTGAGAGGATCACCGTAAGCATGGGAGGCAGAAGTTGCAGTGAGCCTAGAATGCGCC
ACTGCACTCCAGCCTGGGCGATAGAGCAAGACTGTNTCAAAAAAAAAANATTTGGGGAAT
AAAGGAAAGTTCCTGCCCCGGGGCGGGCCCGNTTNTAGAAACTTAGNNGGATCCCCCCCG
GGGCCTTGCAAGGAATTTNCGATATCNAAGCTTANTTCGANTCCCCGTCCACCCTNGAAG
GGGGGGGGCCCCGGNTACCCCAAATTTT

Sequence 2805
TAGGGCGATTTGGAGCTNCCCCCGGTGGCGGCCGCCCGGGCATGGTACTTTTTTTTTTTT
TTTTTTTTTTGCCAGCTTTTCTAAGCAAATAGATTGTCTGAATTAGTCACAGAATAATTT
TGTGAAAATTCATGTTTAAGTAGCAACTACCCTTTCTTTTTTTATATATTTTTAAGGNAT
TAGTTTATCTTCTTCTAACTGGNGCAGTCACTTAATGTTTTCATTAATCTTCGACCTGGA
GAGNGAAATACTGATATTTCTAGAAAAAAATTCTACTCCTCTGATTATTTGAAATGCTGA
GGAAAATGTCCCTCCCATAGTAAAACTTGTAAATAAGGAACTATATCATATTCAGTAGCT
GNGTTCTGTTCCATCTTTTT

Sequence 2806
CCGGGCAGGTACATTCTCTGTTCATTACTTAGTTCTTAAGGATATGTGTTCATCCATTCT
GTCGCTGGCTCAGAGTTTGCTTCACTCTCTAGACCAGAGTATAATTTCATTTGGCAGTCT
CCTATACAAATATGCATTTAAGTTTTTTGACACGTACGCGGGGGACTCAACAGAAATGGG
TTTCCAGAAGAATAATGAAAAGTTGTGGGTAGGAAAATGAATCATTTGGACTCTTCAATG
AAATGGAGTGAGCCCAGGAGAGCTCAGCCAACAGAGGCACTCTGGGAACCTGTTAGTAAA
GCCAGGCTGGCCAAATGCCATTTGATTTTGAACCTCGTAGGTCCCCACTCACCCTCTGCC
AGGAGCT

Sequence 2807
AGCCTCACCCGCGGTGGCGGCCGAGGTACCCCGGGTGTTCCTTTTTGTTCAAAGTCTATT
TTTATTCCTTGATATTTTTCTTTTTTTTTTTTTTGTGGATGGGGACTTGTGAATTTTTCTA
AGGTGCTATTTAAACATGGGAGGGAGAGCGTGTGCGGGCTCCAGCCCCAGCCCCGCTGCT
CACTTTTCCCACCCCTCTNCTCCCACCTGCCTCTTGGCTTCTCAGGNCCTCTGNCTCTTC
CCGACCTTCTCTTCTTCTTGAAAACCCCTTCCTNCCACAGCTTGCAGCCCCATCCTCCCC
GGGCTTCCCTNCCTAAGTCTGGTCCTGGCGGTCCTCTNGTCCCCCGGGNTTTCNAGAGGA
CAACTTNCCCCAAAGGCCCAAAGCAGTTTTTTCCCCCCCTAGGGGGGGGGGGA

Sequence 2808
CCGCGGTGGCGGCCGCTCGGGCAGGGTACATGCCACCACGCCTGGCTTATTATTATTGTT
TTGTTTTGGAGACAAGAGTCTCGTTCTGTCGCCCAGGCTGGAGTGCAGTGGCACAATCTC
AGCTCACTGCAGCCTCCGCCTCCTGGATTCAAGCAATTCTCCTGCCAGAGCAGCTGGGAT
TACGGGCACGTGCCACCATGCCCGGCTAATTTTTGTATTTTTAGTAGAGATAGGGTTTCA
CCATGTTGGCCAGCCTGGTCTCGAACTCCTGACCTCAAGTGATCTGCCACCTCGGCCTCC
CAAAGTGCCCGAGGTTACAGGCATGAGCCACTGCACCCGGCCTATTATTATTAACTTAGT
GTTTGCTAAGTGCTTTATAGATACGGACTTGCTTAAATCTTATAATAAGTCCTGAAAGAT
GGGGTGATAACCTCATTTAAGAAATT

Sequence 2809
AGGTACTGTAAATATTACCATTATTTAAAATGTTGACATTTCTGCATTAAGTAGAAACTT
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GACCTTCAAGAGTCTGATTCATAGAAAGGTTACTGGGGGCTGCAAGGCCCCTCAATTTTG
CATCATCTGTCTGCGTCTCTAATTTCAAAACTTTCAGTAATCCATCTTCACCACCGCATG
CTATGAACCCTTGTTCCTTGTTCCAGGATACACACTGCAGCTTCACGTTATTGGGAATGG
AAATTTTCTTGCTCAGGTAGAAGAACATCGTGGGATCCCCGAGAGGGTCACGGCGGCCGC
T

Sequence 2810
AGGTACGCGGGGGGCTCTGAGAGGAGTCTACCTTGCCTTCTTATGGGAAGGGAGACCCTA
AAAAACTTTCTCCTCTTTGTCCTCCTTTTTCTCCCCCACTCTGAGGTTTCCCCAAGAGAA
CCAGATTGGCAGGGAGAAGCATTGCGGGGCAATTGTTCCTCCTTGACAATGTAGCAATAA
ATAGATGCTGCCAAGGGCAGAAAATGGGGAGGTTAGCTCAGAGCAGAGTAGTCTCTAGAG

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AAAGGAAGAATCCTCAACGGCACCCTGGGGTGCTAGCTCCTTTTTAGAATGTCAGCAGAG
CTGAGATTAATATCTGGGCTTTTCCTGAACTATTCTGGTTATTGAGCCCTTCCTGTTAGA
CCTACC

Sequence 2811

GGCAGGTACTTTTTTTTTTTTTTTTTTTTTGCAACATTGCCCTTTGATGTCCCCATGAGG
GCCAGGCCCAGGCAGAACCCATCCCATTTTATCCTTAAACTCANAAGGAAATTTGTCTAA
ATATTAAAGGATTAATATGGGAATAAAAAATGAACCTTAAACCCTGCCACTGATACACAA
GCTGTCTNTCTTAGAGTTCAATGAACACTTCAGGAGAGTATTTCCAACAATATTTAGATA
TTGGAATATCTAAATATTGTTGATTTAGATAACCACCCTAGATTTCTCACCACCCTAGAA
CATTTAGTGGGGAGACATTCTTTTCTCCTTTTTCTGATAACTTGGTCAGAAGTGATTGAC
TGTGCAAATGGTATTT

Sequence 2812

NNCGGCGGCCGGGCGGGNACGCGGGNGAGCNNTACGAGGGNCAGGAANCCCAGANGCCGC
NCGACCTGGAGNCAGCCTACAACGCNTTCAACCGCTGCCGGCANGCCCGAGCCCGGGGCA
CTAGCCCNNGCACAGAAGGGCAGAGNCNGAGGCGANGGCNCCNGGNCCCCNGNCCGCCAC
ACAGGCCTTTGGTNTTNTCACACAACNCACGGGGCGGCAGCCGCCNGAAAGNAGACNGNC
CCCGGGGGCAGAACANNGGGGGCCGGGCCCCNCCCCACAANAAAGANGCNCNCCGACAAA
AAAAAAAAAAAAAAAAAGNACCNCGGCCGCNCNAGAACNAGGGGANCCC

Sequence 2813

CGGTACCCAAGCTTTTGGTTCCTTTAAGTGAGGGNTNAATTGNCGNCGNCTTTGGCCGTA
ATTCAATGGGTCAATAGCTTGGTTTCCTGTGGTGNAAATTGGTAATCCCGCTTCAACAAA
TTCCCACNCAACATACGNAGCCCG

Sequence 2814

CCGGGCAGGTACGTTCTTTTNGCTTTTCCTTTCNGTAAGATGGTCTTCAGAGCTNCTTAA
ACACATTTAGAAAAAAGTTAAACCCCAAGACNCTTTGGGGATAGGTTAATTTTAAGANGC
CCAACTTTGGACTNGGATTAAAGGAANTACCTTAAAAANCCCNGGNAAAACAATTATTTT
TTGGG

Sequence 2815

GGCGGCGGCCGAGGTACAGAGAAGCCATCANTTTAGAGGGCAGCANAAAACCAGAAGCCN
GNTTTGATCCCTNAACACCAAGANGCCTNTAACAACANGNCACCAGCACCCCCAGGAAGG
CCAAGGAGTCCCACAGAAAAACCTAGGGNNAGACCAA

Sequence 2816

GCGGCGGCCGAGGNACAAGNAANCNCCTTTTTTGGGGGGGGGGAAAAACCCCCCCNCCCCN
NNNNCNACCCAGANGAGGAGGGTTTCNGCCCCCAGGGGAACANCNCCNAAAANCAGCNCG
GCCNNNGNCGGGACCAGNGCCAGGNGGACAGCCAGNGNCCNGGCCAGANGAAAGGCNGCC
GTTTTTTTTTNTTNGGGGGGGNNCGGGGGGGGGCCCCCCCAAAAAAAANCAGCCACCACC
AGGNGGGGNGGGGAGGA

Sequence 2817

AGGTACCCTGAGGTGCTCCGCTGGGGACTCTGCTCATTCTGGGGGTGCAGTTGACGGCTG
GTCGTGATCTTTCCCCGTAATCTGTCCCCTCTTACGGAACCTAGTCTCCCGTTCTGGCCA
TGGCCTTTCTTCTTGGACACTGCTTAGGANCCCAGAAAGAAGTATTGTTATCAAATTCTT
AAAGCCTTAGGAAGAAAGTCNAGGGAGTGGGAAAACCAGGCTTCTGANAAAGAATACCTG
NTTGGCCCACCTGNATCTTCCNAGGNCANCCACGGAANTCCCGGGCCCCTTCCAATCAGG
NAAGGTCGGNAATCTCTGATGGTCNATCGGTTCNATGGCCAACCTGGCCAACCAGTTTGA
AAAAAAA

Sequence 2818

CCGGGCAGGTACTGTTCCTGTTGGCCGAGTGGAGACTGGTGTTCTCAAACCCGGTATGGT
GGTCACCTTTGCTCCAAGTCAACGTTACAACGGAAGTAAAATCTGTCGAAATGCCACCCA
TTGAAAGCTTTTGAAGTGAAAGCTTCTTTCCTTGGGGACCAATGGTGGGCT

Sequence 2819

AGGTACTTTTTTTTTTTTTTTTTTTTTGGGTTAGGATGGTTCTAACCTGATGGGTTGTGT

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TTACAGTGGGGTTTCCCCCAAAGGTTATCTTCCTGCTTTCCTCTGTAAATAGGGCAGTTG
CTGCAACAGATTAAATACACTCGGGCCACCTGTGGGTTAGTGGGTCAAGAATTTTTGACA
GAAAGGCTATAGGCTGCCGGTGGCCCCCGTGTGTTTGGGTGAGCACCCCTAGAGCTATCC
CTTTATTCACATTGACGAAGAGGTGGAATGGCTGTTCTAGGGAAGGTAGAACTAAGGCAG
TTATGAGCAGGTGTTTTAATTCCTCTACTTGTTGGACCTCCCGTGGT

Sequence 2820

AGCTTATCGATACCCGTCGACCTTCGAGGGGGGGCCCCGGTACCCAGCTTTTTGGTCCCT
TTAANTGNGGGNTAAATTGGCGCCGCTTTGGGCGNAANTCANTGGNCANTAGCTTGGTTN
CNTGGTGGTGNAANTTGGTAATCCCGNCTTCNACANTTCCACACANANNACGAAGNCCGG
GGAANCNTAAAGTGGNAAANCCTGG

Sequence 2821

CGGCCGCCCGGGCAGGTACCATCTCTTGGGAAAACCATGCTACCTCTTCTCTCTGTTCTC
TATTTTGCCACTAGAGAAATAGAAAATAAGGCTGGGAGCAGTGGCTTATACCTGTAATCC
CAGCACTTTGGGAGGCTGAGGCGGGAAGAATCACCTGAGGTCAAGAGTTTNAAGACCAGC
CTTGACTAACANTGGTNGAAAACCCNCGTNTTTTTTNTTTAAAAAATACC

Sequence 2822

CCGCGGTGGCGGCCGAGGTACTCCAATCCGGGTGACAGAGGGAAGACTCTGTCTTAAAAA
GAAAAAAAAATCAATAGAAATCGGTTTTTATTTATTTATAGTATGTGCTTTGAGTGGTTC
TCAATCAAATTGATTTTTCCCCCTTCCAGGGGATATTTGAAATATCTGGAGGCATTTTTG
TTTGCCCCATCTTTGGGTATCATATTGGCATCTAGTAGGTAGAGGCCAGGGTTGTTGCTA
AGCACCCTATAATCCACAGGACAGCACCCAAAAACAGTTACCCAGCCCAAAATGTCAGTA
TTGTCAAGGTTGAGAAGCCTTAATTTAGATGTAATGTTAAGAGTTCAGTAAATTGGCCAG
GCACGGTGGCTCACGCCTGTAATCTCCTAGCACTTTGGGAGGCAAAGGCAGGCAGATTGC
CTGAGCTCANGAGTTCGAGATCACCCCGGGCAACAAGGTGAAACGCTCTGTCTACTAAAA
TACAAATCC

Sequence 2823

CCGCGGTGGCGGCCGCCCGGGCNNGTACTCCTCTTGCTACCACCTTTGTTGCAGAAGATG
AAGGGGAGAGGGAGCTTCTCCCTATGGCCTCATGGCTTCTTGTGAGACAGATCAGTCCAG
CCAGATACAGAGCAAAGCAGCTTTGCATCACCGCGGGCCAGTTGCTGATGCCCAGCTTTA
TGTCTAAAAAAAAAAAGTGGAAGCCTCAAGGGGGATGGAGGATAGCAAGAAGAATGGGTG
CCTTGGCCCCAGAGGCATTGTAGGGAGAGGAAGACAATGTATCTCATCAGGGTTCTCAAC
ATTATGAGATTATCACACATCAACTATCTTTGGAGGGGCTGAGTGATTGAGTTATGGCTC
TGACTCCTCTCTGGGGGTGGAGAGTGAAAGATGACAAANAAGGCCATCTGTCCCCTAGGA
GACACAGTTTGCAGTATAAGACAGGACANAAGAGAACAGAAAAACAAATNCAACTGGAAA
AAAGGGGTGG

Sequence 2824

AGGTACCTTAGAGCAACATGCAAAGCTTCCCTNCTCAGCAATCCCAGGTTGGGGCCCCCT
GTCTTCCTATCGTCCTACCCGTCACAACCACCACTGCAGGCTTCTGATGCTCTGTTTTCC
TCCTCTGTCTCAGTTCAGTTGCTCTGAGTTAGAGAGGAGCTCTCTGGGACTGGAGCAAAT
GACTGCACCGGCCCTCATGGGACTTCCATTTCAGTGGATTCAGGGGAAAGCAGCACGTGT
TTTTGAGAGACCTTGGCAACGCAGGCGACCTTGACGTCGACCAAAANAAGAGAGATTTGG
AATGNTTGTTTACAGCCTCCGGTCAAAAAAAAA

Sequence 2825

TTAGGGCGTTTGGAGCTCCCCGCGGTGGCGGCCGCCCNGTCAGGTACCANNNCTTAGCAN
GGAANNTGGACAACANAAGCTNTAAATCCTCTTGCATCGNCACGNTNAATTTGCACTGAC
CAATCTGTTGGCACAGTAACTGGTTATAAGCTAAATTTCTACATTTTGGCTACAAGTATN
CCAAATNCACCTTTTAAAAAATCCTATGTNAGATGCCATCTGGTGTTAATGATTTGCACA
CCCCTTAAATTGAAANTATTNCAAATAAATCTNACGGATTTATATANNATNATTAATGNN
TNTATTTTAAAAAGACAATCTGANAATAACACTTCCCCTAATTGTTGTCTTAATAATGAC
CAAGAGCTGNNGAAAAATNATTCACACTGNTACGTCGTTNTGTTGGTTTGCTCACGGGGG
AAGGGGGGTTG

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Sequence 2826
GCGAATTTGGAGCNAAACCNCGGNGGCGGCCGAGGTACTTCGGGGAGAGNNTNTCCTNCC
NTCATTTTGAACNCCAGCGGCCTCTTCCCCTTCCNGGGGCTGCTTGCCCTGGGAACNCTG
GCACCTTGGGCTGNGGAAGGCTCTGGAAAGTCCTTCAAAGCTGGAGTCTGTCCTCCTAAG
AAATCTGCCCAGTGCCTTAGANACAAGAAACCTGAGTGCCANAGTGACTGGCAGGGGCCA
AGGGAAAAAAAAAAAAGTTGCCCTNANCCNTNGGGGGAAAAAAAAGNGCCCNGGAAACCC
NGGGGGGNCCCCC
Sequence 2827
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCGGAACACTTGAGGTCATGAGTCTGA
GACCAGCCTGGCCAATACGGAAAAGCCCCGTCTCTAACAAAAATACAAAAATACAAAAAT
TGGGTGTGGTGGTGTGCACCTGTAGTCCCAGCTACTCAGAAGGCTGAAGTAGGAGAATCG
CTTGAACCTGGGAGGCAGAGATTGCACCACTGCACTCCAGCCTGGGTGACAGAGAGACAC
TCCATCTCAAAAAAAGAAAAGAAAGGAAAAAAAGAAAAGAAAAGAAATGTTGAGGCAAAT
GAATATACAAACACATTTTAGATTAGCATTTGAATTAGTAAACTGCATAAAAAAGATCCA
ACATGAGCTGACATCATCCAATCCATTGAGGGCCCAAATAGAGCAAAAAGGCAGAGGAAG
AGCAAATTC
Sequence 2828
CCGCGGTGGCGGCCGAGGTACAGAAAGAAGAGTATCCATTTCAACTACTAGGTTAACTGC
CTTTGATGAGCTTGATTTTACCTGGGTCACTAATTCCACAGAACCAATGTAGGTGTCTGG
GCGGAGCAAAATATGCTCCAATTGTGTTTTCTTTTGATAGATTCTTTCAACAGACAGTCT
TTTCTTAGCATCTTCATTTTTCTTTATTTTGTTGACTTGCATATTTTCATTTACAGGCTG
CAATGGTGACACTTCCATGGTGACGGTCGTGAAGGGGCTCAAGAACCCTGAAAGCGACTA
AACAGGCAGGACCCCACGAGACCACCCCCGACCAAGCCGNTTCTCCACAGACGCGCGTCC
CCCGCGTACCCGCCCG
Sequence 2829
CCGCGGTGGCGGCCGAGGTACTTTAANTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTNGGGNNGNNNANNNTTNTTTTAAAAANGGNAAAAAAAAA
ANNGGGGGGNGGNNNNNGNNNAAAANNANNNGNNNNGGGGNNAANCCCCCNNCCNNNNNG
GGNAANCCCCNNNNNAANNNNNNNTTTTNNGNGGNNNNNCCCNTTNTNAAANAANCGGGG
TNAAAAAAAAAAAAAAATTTTNGGGGNNATTTTTTNNNGNNNCCCCCTNANCNNGGGGGG
GNNTNTTTNCTNTTTTNANACCCCCGGGGGGG
Sequence 2830
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTGTTTTGT
TTTGGTTTTTTTTTTTTGGCTTGACTCAGGATTTAAAAACTGGAACGGTGAAGGTGACAG
CAGTCGGTTGGAGCGAGCATCCCCCAAAGTTCACAATGTGGCCGAGGACTTTGATTGCAC
ATTGTTGTTTTTTTAATAGTCATTCCAAATATGAGATGCATTGTTACAGGAAGTCCCTTG
CCATCCTAAAAGCCACCCCACTTNTNTNTAAGGAGAATGGCCCATTCNTTTCCAAGTTNC
CNNANGGGGANAAAANANCNNTTNTTTTCNGGNAAATTTTTTAAANCAAAATTTTTTAAN
CCCCCCCCCCAAAAACCTTTTTNNTTTNGNNAANAAAAAANAAAAAAAATTTTCCCCCCC
CCNCTTTTTTTTTTTTTTTTTCACNCCAAAAAAAAAAAA
Sequence 2831
CCGCGGTGGCGGCCGATGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTAACCCTTTGACTNTTTTTTAANGCCNCGGGNGGATNTC
NTTGCCCANCTCCCANNAATGTTTGCCCTTNTAANTCTGTTCCACTTTTAGGNGGNAGCC
ACCAGGCCTTANCCATCCCGGGTACCTNGGCCGTTTTAAAANNAGGGGNATCCCCCGGGN
TNNANGAATTTNNAAANTNAAAGCTTNNNNGAAACCNNCCCNCNNTNGNGGGGGGGGCCC
CGGGCNNNAAATTTTTTNTTTNNTTNAAANANGGGNAAAAAANGGNCCCCCTTGGGGNNA
AAAAAAANGNAAAAAANTTTTTTTTTNTNGGNAAAAAAATTTTTTTTTCCNNAAAAAAAT
NNCAAAAAAAAAAAANAAANGGGNGGGAAAAAA
Sequence 2832

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CCGGGCAGGTACAAAGATTCCTCACTGCGTGCTAAGAAAACAGATCCAGGCCGGGCACGG
GGGCTCACACCTATNANCCCAGCACTTTGGAAGGCTGAGGCGGGTGAATCACCTGAGATC
AGGAGTGCGAGACCAGCCTGGCCAACATGGCAAAACCCTGTCTCTACTAAAAACACAAAA
ATTTGCCGGGCATGGTGGCAGATGCCTGTAATCCCAGCTACTTGAGAGGCCAAGGCAAGG
AGAAANTTGCTTTGAACCTGGGGAAGGCCGAANGNTTGCAANTGAGCTTGAAGATTCGGC
AACNAACTTGCACTTTCCAANNCCNTNGGGNTGACNAGGANGATAAGGACCTTCCNTTCT
NCAAAAAAAAAAAAAAAAAGGGANAAAAAAAAAAAAAGGGNTCCCTTTTNGGCCCGGTTT
TTTANAAACTTAAGTGGGAATTCCCCCCNGGNCCTTGNGNGGGAATTTCGNNTNTNNNAA
AGCTTTTTTTCGAATTCCCCGCCCCANCCNTNNGNGGGGGGGGG
Sequence 2833
CTAATTGGAGCTCCCCGCGGTGGCGGCCGGGCAAGGTACTTTCTTTTTTTTTTTTTTTTG
AGATGAAGTTTTGCTCTTGTTGCCCAGGATGGAGTGCAATGGTGCAATCTCAGCTCACTG
CAACCTCCGCCTCCTGGGTTCAAGTGATTCTCCTGCCTCATCCTTCCTAGTAGCTGGGAT
TACAGGTGCCCACCACCACACCCAGCTAATTTTTGTATTTTTAAGTAGAGAATGGGGTTC
ACCATGTTNGGCCAGGCTGGTTTNAAACTCCTGACCTTAAGGNGAANCCCCCTTTGCCTT
NGGCCNCCAAAAAGGGNTNGGNAATNANNAGGGGGGNNACNCNCCCCCTTNNNCNNANAA
AAAGGGGGNTTTTTTTTNTNTGGGGGGGGGGAAANATTTTNNAAGGGGGGGNGCCCCCCC
NNCCCCTNANAAAAAAAAANAAANCCCCCCCCCCGNGGGGANNAAAANNNTTTNTATAAA
ANANTTTTTCCCCCCCCCCCCCCNGGGGGGGGGGGGCCCCCCCCCANCTTTTTTTTTTTTN
TAGNAAGNGNNNCAANCCCCCCNAAAA
Sequence 2834
GGGGNAAACCCCGGNGGCGGCCGCCCGGTTTGGAACCNGGGTTNAAACCCCCGGNTTTNA
ACCNCANAACCGCAAGANAACGGGNGNAAAAAAAGGGAAACANANCAGCNGTCCAAAGAA
AACAAAANGNGGGCAAACC
Sequence 2835
GGTGGCGGCCGAGGTACTGATCATGGAACTCTCGGGGAGGAAATGATGTTTTCCTTCTAC
CCATCTTATGTTCATTGGCTGGGGCTCCTGGAACAGAAGACAGATTTACAAAAGAGAAAG
GCACACAAATTTATGTAATATAAGTTTTACATGACATGGGAGCCTTTATAAGGAAATGAC
CCAAGGAAATGGTTAAACCTGAGTGGTTTTGNGTTAGGTTTGATGAGCAATGAAAAGCTA
TGGAGAACTATGATAGGAGGAGTGTGAGCTAAACGCAATGAACTGGGGGGAAACT
Sequence 2836
TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
TTTTTTTTCTCAAAACGGCCTTCCTTAGTCCTGTAAAACCTGGAATGCACATAGTCCTGT
AATGGCCATCCCAGAAGTGAATCTACATGATTATTCAAATTCAAATACCTAANAAAAAAA
ATCACTTGAAGTTNTGCAACTTCCCAAATGCAAATTCCTGANAAAGAAACTTGACTGAGC
CAGTTCAACTTTCTGTATTGGATTANAAATCCTATCTTGCTGGCTGGTCTGTANATTGGG
TTGCTCTTGAGTCAAAATGANCCTTTTTTTAAAGTTAAGCCNCTTTTGCCCNTTNGGGGG
GGGGCCCCNCTNGGGGGGGGNNAAAAAAATAATTTNNCCCGGGGTTTTNTTTTTTTNCCC
CCNAAAAANCTNTTTTTTTTTCNAANCCCCCCNNAAAAAAANNGGNCCCCCCCCCCCTNG
NNGGGGGGGGGGGGGGGTNTTTTTNTCCNCCCCCCCCCNCAAAAA
Sequence 2837
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGTTTTTAGTAGAGACAGGGTTTC
ACCATGTTGGTCAGGCTGGTCTTGACCTCCTGACCTCATGATCCACCGGCTTCGGCCTCC
TGAAGTGCTAGGATTACAGGTGTGAGCCACTGCGCCCAGCCCTGAGAAATAGTTCTTCTA
ATTGTCATCCAGTTTTCATCTGAGTCCTGTTGTTCTTTGGATATGTGCCCTTCCAGAGCA
CAGCAGGGGTTGTTCAAGTCTTCCANAAAAGCAGCTCTTGTTTCTCCTCATGTGGTGGGA
GTGGAGTCAGAGCGTGGCTCAGGCCCCACATTCTCAGCTGTTTGGATCTGGGGACTCGAA
GTTTCTGGTGGTTACTTCTGAAAGTCTTTTCCAGGATAATTATTCTTGCTCGGTTTCTCT
GCATCTCTGACAGGCTGGTTTNCCTGCTTCCCCGCTT
Sequence 2838
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT

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TTCTTTTTTTCTCTGTGGAAAAAGAAAGAATTTGACTTTATTTAGAAAGTCTACAAAATA
CAGAAGACGATAACTCGCTTGCTGTAAGTCAGGAAATAAATAAATTCTAGGAGCCGGGCA
ATATTTTTTAACTTTTTTTTTGAGACAGGAGTTTGCTATGTTGCCCAGGCTGGAGTGCAGT
GGTGCGATCTCAGCTCACTACAACCTCTGCCTTCTGGGCTTAAGTGATCCTCCTGCCTCA
GCCTCCCAAGTAGCTGGGACTACAGGCATGAGCCACCATGCATGGCTAATTTTTGTATTT
TTTGTAGAGACGGGGTTTCACCATGTTGTCCAGGCTGGTCTCAA

Sequence 2839

AGGTACTTTTTTTCTTTTTTTTTTTTTTTTTTGGAGACAGGGTGTTTATCTGTCACCCAGG
CTAGAGTGCAGTGGCGGGATTACTGCTCACTGCAACCTCGACCTCCTGGGCTCAAGTGAT
CCTCCCAGCTCAGCCTTCAAGAGTAGCTGGGACTGCAGACCTGCACCACCACGTCCAGCT
GCCCGGTTAATTTTTTTTCTGTCGGTTTGAAGAGGGGAGAAGGTCTCACTATGTTGCCCAG
GCTTGTCTCAAACTCCCGGGCTCAAGCAATCCTCCCACTGTTGGCGTCCCAAAGTGCTTG
GGGTTACAAGGTGTGAGCCACCACCACACTGGGGCTCTGCTCTGCCTTTCTGAGTTTTGG
GTTTTCTGCTTATGGNGGGGGAGCTTTGTTCCCGTTCTTCCCCACAAAGAACCCAGGGAT
GTGGCACAAGCTTCCCTGCCCGTTTTTCCTTTAACTTCAAGTTGGG

Sequence 2840

CCGGGCAGGTACAACTGGAAACAGCCACCGGAGAGAGAACTGTCTCGCCTTCGCCGGCTT
TACCAGGGTCATCTCCAAGAAGAGAGTGGCCCCCCACCTGAGTCAATGCCCAAGATGCCC
CCTAGAACACCAGCGGAAGCCTCCTCCACTGGGCAGACAGGCCCTCAGAGTGCTCTGTAG
GAGCTGTAGACTGGGAAGAGAGGCCAGGCGTGGTGGCTCACTCCTGTAATCCCAGCACTT
TGGGAAAGCCAAGGTGGGCCTTGATCACTTTGANTCCCAAGGAAGTTTTTGAGACCAGCC
TTNGGCACCATGGTGAAAACCTTTGTCTTTACCAAAAAATACAAAAATTTAGCTGGGTGT
GGTGGTGCACACCTGTAGTCTTAACTATTGGGGGAGGCTAAGGTAGGGATTCACTTTGAT
TCCCAAGGAGGCGGAGGGTTTTGCANTTGAGTTTGGCANTTCAACACCCCTTGCANTTNC
AGCCTTGGGGTGGACAAGCTTAAAACCCTTTNTTTTCAAAAAAAAAA

Sequence 2841

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCATGTCAATGGAGTAAT
GCTCCCAGGAGAGTTATGGCTGCTCTGCTATGTCATGCAGGTTGTTAGGGAAGTAGGGGA
AAGCTAGAAGTTACAGGCCTTACCCAGCTCCCATGCAACCCAAAAGGCCAGTCTCACTCC
CACCGTGCCCCACCCTGACAGCACCAAGTTTGTTTCCAGGCAGTGAGTGAGCAGGGCTGA
GAACTTGTCCCAGGCTACCAGCCTGCCAGCTGAGAAAGAAAGCATGGCTTTTGCATCTTT
TTGCCTGTTGAGTCTGCGCACTGGATTTATGCCCTCCCTCGAGTTTTGGCCGGGAGATTC
ACGTTTTGGTTCAAGTGGTTACCAAAGTTTACTTGGGGAGGTTTCCTTTTCCTTTGGGTC
TT

Sequence 2842

CNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGGTACTTTTTTTTTTTTTTTTT
TTTTGTATTTTTAGTAGAGACAGGGTTTCATCATGTTGGCCAGGCTGGTCTCGAATTCCT
GACCTCAGGTGATCCGCCTGCCTTGACCTTCCAAAGTGCTGAAATTACAGGCATGAGCCA
CGATGCCCAGCCTGAGGAACAGATTTCTATATGGCAAATAATAAAGGCAAATAAAAATTA
ATGCTAAAATAGAATGAGGAAAGTATTNTTTTNTTCACCAGAATGGTTGTNANCANAAAT
GNTTTGCACCAGGGTGGNNTTNAAAAAAACCCCNCNCTTNNATTTTGGGTTNTNCCTGGG
GGGNTNTNGGGNNCATNAAANACCNTTTTANNNTNTTTTTTTNANNNAAAAAAANTTTT

Sequence 2843

AGGTACTTTAACTTCTTTTTTTTTTTTTTTTGAGATGAGTTTTGCTCTTGTTGCCCAGACT
GGAGTGCAATGGCGCAATCTCGGCTCACAACAACCTCTGCCACCCGGGTTCAAGCGATTC
TCCTGCCTCGGCCTCCTGAGTAGCTGGGATTACAGGCATGCATCACTATGCCCAGCTAAG
TTTGTATTTTTAGTAGAGACGGGGTTTCTCCATGTTGGTCAGGTTGGTNTCGAACTCCCG
ACCTCAGGCGATCTGCCCGCCTCGGCCTCCCAAAGNGCTGGGATTACAAGTATGAGCCAC
CGCACCCAGCCTAAGATCCAAGATTCTTATGTTTTCTCTCCTTGCCTTTTGGAACCTGCC
CGGGGCGTGAGCGGCCCGCCGGGCCAGGTACCAACNAGAAACNCAAACACCTTGCNCAGT
NTNTCNAGGCACCNTTTCCAAAAACCAAAATTTTGGANAAGGTGAAACNTTAACTTNATA

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TNGGCTTAAATTTTAA
Sequence 2844
ACCGCGGTGGCGGCCGAGGTACTTTTTTTTNTTNTTTATTTTTTTTTATTATTTTTTTNTGGG
GACGGAGNGNCCCTCTTGNTGCCCAGGCTGGAGCGCNATGGCGTGATCTTGGCTCACTGC
AGCCTTCGNCTNCCGGGTATCAAGTGATTCTCCTGCCTCAGCCTCCCNAGTAGCTGGGAT
TACAGGCATGCNTNNACCATGCCCAGCTAATTTTGTATTTTTTAGTANCAAAACCGGGGG
TTTCACCCATATTGGGTCAGGCCTGGTCTCGAACTCCCAGACCTCAAGGGTGGATCCCGC
CCACCCTCGGCCTTTCNCNAAACCTGCTGGGGAATTACCAAGGCCGTTNAAGNCCAACCC
GNCGCCCTNGGCCANGGGGGACCTNATACTTCTTTTTTTAAAAAAAAAGACATTTTTGTN
GGGGGGCNTCACCACCCNTTATATTTNAAAAATTAGGTTNCCTTGCC
Sequence 2845
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTCCTCATCTTTCTTTGATAATGN
GNGAAGCCAAGGATAGGCAGGAACCCCAAGTTCCNTNTNTCCTGGGATTGTCACAAAATT
CCCCCTNTCCCCATCGCATCTATTTTTTGTTTGTTTTNTTTTNTTCCCAAAGAGGGAAAA
ATACCATGGGCTTTANAGGAATCATCGCTCACTGNGGGAACCTTGCCCCCTCCCCAAGCC
ACCCCACTGNGCCCATAAACGTGCTGCCTGTAACCAATTGTTCCTGTTGAATAACAATGC
GAGCTGAGGGGCTTTTTNTGCCTGAGCTGCAAATANATTAGGCTGCTCCCTTTTATGTGN
GCAAANACATTACCCAAAAGC
Sequence 2846
CCGCGGTGGCGGCCGCCCGAGCAGGTACCTCAGAATGTAACTGTATGTGGAGGTCTTTAA
AGCAATGATTAAGTTAAAATAAGGCTATTAGAGTGGGGCCCTAACTCTAAATGACTGGAT
TTATATGAAGGAGCTAGAAGAAGGACAGACACACCAGGGTCCTGTGTGCACAGAGGGACA
ACCATGTGAAGAGGCAGCAAGAGGCCAACTGCAAGCCGAAGAGAGAGGTCTCAGGGGAGA
CCAACCCTGCCAGCACTTTGATCTCAGGCTTCCAGCCCCCAGACCAGTGATAAAATAAAT
TTCTGCTGTTTAAGCCACCCTGTCTGTGGCATTTTGTTCTAGTGGCCCTAGCAA
Sequence 2847
CCNGGGGCGGCCGAGGTACCATNANGCTTGCAGGGGCTGAAGCATGGTTTGTCCANAACC
CCAACCACCAGGTCTATCGNNCTCTTTCTGNCACCTTTTTNCTCTTTTTTCCTTCTNCCC
TTGCACCTGAGGNCCTGGAAGGCCTTGATGAGGCCCAGCAAACAGGCATTCTCACAGCTG
GGTTTATAGTCTTTGGGCCCCTTACTCAGTATCCTGGGAACCCTGGGCCAGGAAGTTAAC
AGTGGTCAATCANAAANTNCTGAANAAAATCCCCCTCCCCCTG
Sequence 2848
CCCCCCGNGCNGGNNCANNTTTTGGGCNNTTTTTGGGTTTTCAGNANGGTTNGTGGAGNA
TCCCCNGNGGTTTTTNNNAAACCCCCCCNCNNAACANAGACCAAANGGGGGGNNGNGNAG
GGGGGNGGGGNCNNTNAGAGAGGNGGGGCGGGGGCAGCGGGGGGGNAAGNNGGNNGNNNA
GGGGANGGGGAGGGGCNNNCCCCCANACNNGGAGGNGGAAGGGGAAAGAACGGCNAGGGG
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NAAAGGGGCCNGANGGCGAAGGANGGCNCCCAAGCAGGAGGCGGGNNGGGGCCGCAACNG
CCCCNAAAAAANGCCCCCGGGNNNACCCCAAGGGGGGANGGGGGNCANAAAAGNNGGGGG
GGAAGGAACNGGGCCNNAGGGNGGCCCCCNGNNAGANGNGNNNNGGCGGAAANCCCANGC
GCCNGGGGGGNNNANCCAAGGGGGNGGGA
Sequence 2849
GAGATGCAGTCGATTNCATACCTANTGGGTCCCANTCCTNNNTNNGGNCNGTTGNGAAGC
CGGATAGTGACTGAGATCACTGGGTAGACCTTGTCCACCTTGGCATTCTTGTCTGCCAAG
GTCCATGGCCCATGGGGATGGGGACAATTTGAGTGGG
Sequence 2850
GGCAGGAACTNTTCTTTNNTCTTTTTTTTNTNAAGTNAGNGGTAATTTAAAAATCTGAAAT
ATAGGCTGGGCGTGGNGGCTTACGCCTGNAATCCCAGCACTTTGGGAGGCTGAAAGTTGG
GGCNGGATTCATCTGAGCTCGGGAGTTCAGGGACCAGCCTGACCAACATAGAGAAACCCC
GNCTCTACTAAAAATACAAAAATTAGCCANGGCGTGGTGNGCACCATGCCTGTAATCCCA

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GCTGTTTCAGGGAAGGCCCNANGCCANGANAAATTTGCNTGGAACCCCGGGGAGGGCCGG
GAANGTTTGTTGGATGGAGCCCCGAAGATCANCCAATTTGNNNANCTNNCAAACTTTTGG
GNTTGAACAAAGAAGCCNAAAAANTTCCCCAATTCTTTCATNAAAATACAANGAAAACNT
TANANAAAAATTTTTTGAAAAATTAATGGGGACCCCNTGGGAAANGAGGCCCNNTAAAAA
AAAAAAAAAA

Sequence 2851

CNANCGGAAGGGGCCCCNGGGGGGGGGGGANAAGGGCAAAACCCNGGNCTNAGCAACCAC
ANGGGGGGGCCGGAGCCNNGGGGGGCCAGGACCAGGGGAGAGGGAAGCCCCAGCCCNGAG
GCGNNCGCACCACNCNNAGCACCAGCGCACCAANACNGCAGACGAGGAAGGAAGCACAAG
CNCCCCACNNNACAAAGGGGAAACCGAGGCGCGGGNAGCGCGGNCCCGGGGACGGCCGCA
CAAGAACNAGGGGGACCCCCCCGGGCGGCAGGAGNGCCGGNNAGAAGCCAAAACGAANCC
GGCGAACCNGGGAGGGGGGG

Sequence 2852

AGGTACGCGGGGATGCGCAGTCGTGAGTCCTCTTGTCCTTGAGCGTCAACCTTCTTTCCC
TGAAGTGGCTGGGGTTCCTGTTTCCTTCTTTGATTGACAACTTGTGTTAACCCTCGCACA
TCTCTGGGCCAATTTTTGCTTGAAAATGGCAGCTCCCGAGCAGCCGCTTGCGATATCAAG
GGGATGCACGAGCTCCTCCTCGCTTTCCCCGCCTCGGGGCGACCGAACCCTTCTGGTCAG
GCACCTGCCGGCTGAGCTTACTGCTGAGGAGAAAGAGGACTTGCCCGAAGTACCTGCCCG
GGCGGCCGCTCTAGAACTAG

Sequence 2853

CGGNGGCGGCCGCCCGGGNATGGTACCCTCTGTCACGGCTTCCTTTTNCTGGAAAAGGGA
ATTTCCCAACCCCGGGTGAGGCAATGCCCCGCCCTGCTCCGTGGGCTGCACCTGCTGTCT
GTCAAGCCCCAATGAGATGAACCCTGTACGCGGGGGCCTGGGATCTCAAAATGGCGGCCC
CGTGCGGAAACAGCGTNTGGGAGCANNCATGTTGCCTNCTGAACAAAGCCGTTGAAGATG
AAGAATGGGCAAAATCGCCCCATACGGAACAAGCGCANCCTNGGGAGCCCGATACCTGGC
NNGCGAACACCAAACGGGAGAATTTCGCCAATATGGATGTGACAGCGGTTCCCATTAAAG
CGGTGATAGGGATTTTT

Sequence 2854

CCGGGCAGGTACGCGGGGTGGGCATTCTGGGTAACAGAGCTATTTACTTCCTGCGGGTGC
ACAGGCTGTGGTCGTCTATCTCCCTGTTGTTCTTCCCATCGGACGAAGATGGCCCTGGAG
ACGGTGCCGAAGGACCTGCNGGCATCTGCGGGCCTGTTTGCTTGTGTTCGCGTGGTCAAG
ACTAGTACCACCAGNTTTAGAATATGATGGCTTGTNGACAACATGTTGATGTCATATGNT
ATCAAAATCGAAACGGNGTCANCTCCGAAGAAGGATGGGTTATTATTGACTTGCACCTTA
GCCTNTTCGCTTTTGCATGGGGATANCCATTTNGCTCATTNATGAAGTTNCCATGTANTG
TACAGGCCTTGGGGNTCNTTTCAAAGGTNTNNNAANCTGCAGNTCCAGTTAAAACCTTT

Sequence 2855

CTTTCATGTGATCTTTGTGGCAGTGGGACAGGAAGTAGGCGCGGGCCCTCAGGTTCTCCC
TATCGAAGCGGTCTATGGAGATAGTTGGATACTCGGCCATCTGCCCCTCGAAAGAACTCA
TAGCGCCGTCGATCCCAGAGTCCGGGACCCCAAAACCGCAGCTGAAGCCAAGGCCAGCCC
TGACNCGCCCCCGCGTACCTCGGCCGCTCTAGAACTAGTGGGATTCCCCCGGGCTGCAGG
GAATTNGATATCAAGCTTATCTGATACCGACCGACCTTCNAGGGGGGGGCCCGGTTACCC
AAGCTTTTTTGTTCCCTTATAGTGGAGGGTTTAAATTTGCGCCGCTTGGGC

Sequence 2856

GGGCGATTTGGAGCAAACCCCGGGGGCGGCCGCCCGGNTTGGTACCAAAANTNCAAACNA
CCANTTTNGAANCCGGCGNNGACGNNNGCGGNCCNAGCTACTCTGGAGGCTGAGGNGGGA
GGANCGCTNGAGNCTGGGAGGCAGAAGTTGCAGNAAGCCGAGATCATGCCACTGCACAAG
CTAGGTGACAGAATGAGACTCTGTCTCAAAAATAATTAAAAAGCCTCTGCCCCAAACTCG
TTAAAAGATTTTATAACCACAACTGCTGNTTCTGNGNAGATGCATCTGCATGCCCAGGAG
CAGTAAATGCAATAAAANCATTTGGNTATACTTTGAACACAAAATAAACGGGTGAGGCTT
TTACTTTCGAAAAAAAAAAAAAAAANAAGGGNCCTCGGCCGCTCTAAAACTAGGGGGANC
CCCCGGGCCGCANGGAAATCGATA

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Sequence 2857
ACATTAATTTGCGTTTGCGCTCACCTGCCCGCTTTTCCAGTCCGGGGAAACCTTGNCGTG
CCAGCTTGCATTTAATTGNAATTCGNGCCCAACCGCTGCNGTNGGAGAGGCCGGCTNTTG
CCGTATTTGGGGCGCCTCTTCNCGCTTTNCTCGGCTTCACTTGACTC
Sequence 2858
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGTCCTCAGCTTGGG
CTTCTTCCTCCTNCATCACCTGAAACACTGGACCTGGGGGTAGCCCCGCCCCAGCCCTCA
GTCACCCCCACTTCCCACTTGCAGTCTTGTAGCTAGAACTTCTCTAAGCCTATACGTTTC
TGTGGAGTAAATATTGGGATTGGGGGGAAAGAGGGAGCAACGGCCCATAGCCTTGGGGTT
GGACATCTCTAGTGTAGCTGCCACATTGATTTTTCTATAATCACTTGGGGTTTGTACCTG
CCCGGACACATCCAGTAGGCTAAGGGGATGCTTTCCTTTTCTGGGGTTTTTCGGGGGGTT
TTTTGGAGCGGGGAGAGGGATGAANGAGGTGCTCCCCTTAATTTCTTTATTGAGAATGAT
GCCGTGGATACTTGAATTTAAGCANTTGTCACATGGGCAGTGTCCTACCTGGGG
Sequence 2859
AGGGCGATTTGGAGCTCCCCGCGGTGGCGGCCGGGCANNTACTTTGCGGTTTTTGGGACT
TGATTTTNGCAGAGGGATCGGGCACTGAAGGTGCAGTTCTCAAAATCACACCTGNAGGCT
GGCTCCTCGCTGTGGGTATCCAGGTGCTTCTGGAGGTCAATAAGATTCTTGCAGCTGTAG
TCACAACAGTCACATTTAAAGGGCCGGTCCTCACTGTGACGAAAGCGCATGTGGTTGCGG
AGGGAGGAAGGCAGCGGGCAGGTCATGTCACACAGAGGGCACTTATAGTGATTCACATGG
TTGCGCA
Sequence 2860
ATGCGTTGCNGCTCACTGCCCCGCTTTCCAGTCGTGGAAAACNCTGTTCGTGCCCAGCCT
GCATTTAATGGAAATCGGCCAAACCGCCNCCGGGGGAGGAGGGCCGGTTTTGCCGTATTT
GGGGNCGCTTCTTCCCGCTTCCTTCGCTCAACTGGACTTCGCTTGCGGCTNCGGGGTTCG
NTTCCGGGCTTGCTGGGCCGAGGCCGGGTATTTCANCCTTCAACTTCAAAAG
Sequence 2861
CCCTAGGGCGTTTTGGAGCTNCCCCCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTN
CCCGGAGNTTTNTAANAAGATTTATTTAGCAAAAATACATATAGCCATTATTGCAAGACT
TAAATGAGATGNTAAATGTTCAACCCAATTTTCTTTCCTGGATAAGTTTTTCTTTCATAT
CCCTGTCAGTTTTGAAAACATAATACCAGAAGAAGGGGGGCCCAATTCCACAGAGAGCTC
CCAAGAATGAGTTTCTGGGAGTGAGTCTGAAGTTGAGATAAACCTTTGCTGATCTTGCTT
ACGTTCAATGCATCTGGGCAGCGTCTTTGATGAGCCCTGGCGGTTAGGCTGGTGGCACTG
AAGCAGGCCTCCAGGGTCTCCTGTTTAAGCAGGATTTTAAGGCCAACCCTGC
Sequence 2862
CATCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTGGGA
GGCTGACGCAGGAGGACCGCTTGAGCTCAGGAGTTCAAGACCAGCCTGAGCACCATAGTG
AGACCTCATCTCTACTAAAAAAAAAAATAAAATACCAGGCATGGTAGCATGTGCCTGTAG
TCCCAGCTACTCTAGTCCCAGCTACTTGGGAGGCTGAGGTGAGAGGATCACTTGAGCCCA
GGAGATCGAGGCTGCAGTGAGCCATTATCACGCCACTGCACTCCAGCCTGGGCAACTAAG
CAAGACCCTGTCTCAAAAAAATTTTAAAAAATTTAAAAAATAAGAAAATCCAAGCTAGGT
TGAAATCTGAATGTTGAGCAGNTCAGTGAGGCACAAACTTAGCTTAAGAAAGTCAACCCT
GCCCACTTGCCATTTTGAAGGTTATTACTAGCCAAAATTACN
Sequence 2863
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAAAATTAGCAAGGAGA
CATTTTCTGCATTGTGAGAAATCAACATAGACACCTTAAAGACCCCTTTGAGAGTGTGGC
TTTTTGAACTTTTCAGATTTTGCTCAGTGACCTGCTAACACTTACGTGAGAGGCTCCAGG
TGTAAATAGAATCTAATGGCAGAATCTGTAAGTGTAAACAAGCATCTTAGGAGTGAGAGA
TCAAGACCACAAAATGTCCAGAGCTATGACCACAGCTATACCTACCCATAAAATACGATA
CTGGAGTAGGGTATTTTTGTCTTTTTTCTTACCTAAGAGCTAGCTAATCAGGACAGGTGA
TGGCAGGTTCTGGAGCTCTACCAGGGCAGGTCTATTTTCTTTTTT
Sequence 2864

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AGGTACAGCTCTTCTCTTGTCTTTCTGAGCTCTTACCAGAATTGCCTTCCGTGTCTTTTT
TTTTGGAGATGGAGTCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGCGCAATCTCAGCT
CACTGCAACCTNTGCCTCCCTGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGGGGCT
GGGACTACGGGTGCACGCCACCATGCCTGGCTAATTTTTTTGTATTTTAGTAGCGACAGGG
TTTCACTGTGTTGCCCAGGCTGGCCTTGAACTCCTGAGCTCGGGCAATCTGCCCGCCTNA
TTCTCCCAACATGCTAGGATTATAGGCATGAGCCACCACGCCCTGCGGTGTCCATATTTC
TAACAGCAGTCACTTCAGAGCCATCTAGGTTTCTTCTAACATGCACCTAAAAACTCTTTG
GCCTNTACTACCTAGNTNTGAAACCATTTT

Sequence 2865

CGGCCGCCGGGCAGGTACAGNTGCATCANCTGCTCGTAGGACATGTCCAGCAGCTGGTCG
AGGTCCACGCCGCGGTAGGTGAACTTGCGGAAGGTCCGCTTCTTCTTCTGCTCTACTTCT
GCCACCCGCGTACCACGGCTATCCTTATAGCTTTTTAAT

Sequence 2866

CGCCCGGGCAGGTACTTTCCCCTCCCCCAGAAAAGCAGGACTTGCCCGCTAAGGGTGAAG
GACCAAGGCAGGCGTCCCTGAGTGGTCTGACACCTTTGAAACGTGAGTGAATAATCAGAG
AGGTGTCCCTGCAATGATTAAACACCAAGGAAAGGCTGCCTTCCCAGTCTGTGACCAGCG
CCAGAGTTTTGGGTCCACGGATAAAACGTGTCTCGTTTGTCTCTACCAGAAAATGAAAGG
AATTGAAATTAAGAGAAGGGAGAGATTAAAAAAAAAAAAAGAAAAAAAAAAAGTACCT

Sequence 2867

CCGCGGTGGCGGCNCGCCCGGGCAGGTACTTTCCCCTTCCCCAGAAAAGCGGGACTTGCC
GCTAAGGGTGAAGGACCAAGGCGGGCATCCCTGCATGGTCTGACACCCTTGAAACGTGGG
TGAATAATCAGAGAGGTGTCCCTGCAATGATTAAACAGCAAGGGAAGGCTGCCTTCCCAG
TCCGTGACCAGCGCTGGAGTTTTGGGTCCACAGATAAAACGTGTCTCCTTTGTCTCTACC
AGAAAATGAAAGGAATTGAAACTAANAGAAGGGAGAGATTAAAAAAAAAAAAGAAAAAAA
AAAAGTACCTCGGCCCGCTCTAGAACTAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTGTTCCCTT
TAAGTGAGGGTTAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnAGCTGTTTCCTGTGTGA
AAATTGTTATCCCGCTCACAATTCCACACAAACATACGAACCCGGGAGCATAAAGTGTAA
AAGCCTGGGGGTG

Sequence 2868

CCGCGGTGGCGGCCGAGGTACAAATTGTCGTTTTTATTCCTCTTATTGGGATATCATTTT
AAAAACTTTATTGGGTTTTTATTGTTGTTGTTTGATCCCTAACCCTACAAAGAGCCTTCC
TATTCCCCTCGCTGTTGGAGCAAACCATTATACCTTACTTCCAGCAAGCAAAGTGCTTTG
ACTTCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACAAAACTGTTCTTTTGCATTTTGCC
GCTGAGATATGGCATTGCACTGCTTATATGCCAAGCTAATTTATAGCAAGATATTGATCA
AATATAGAAAGTTGATATTCAACCTCACAAGGGCTCTCAAAGTATAATCTTTCTATAGCC
AACTGCTAATGCAAATTAAAACATATTTCATTTTAACATGATTTCAAAATCAGTTTTTCA
TACTACCCTTTGCTGGAAGAAACTAAAAATATAGCAAATGCAGAACCACAAACAATTCGA
ATGGGGTAGAAACATTGTAAATATTTACTCTTTGCAAACCCTGGTGGTATTTTATTTTGG
CTTCATTTCAATCATTGAAGTATATTCTTATTGGAAATGTACCTGCCCGGGCGGGCGCTC
TAGAACTAGTG

Sequence 2869

GCGAATTGNAGCTCCCCGCGGTGGCGGCCGAGGTCTAATTTGAATTTGTAATGAGTCTGA
TGGTATATTTCAATTTTTTGCTTTGAGGGACTGGCTGCTACATTGCAGAATATCTTATAT
CCCTGACTGCTTTCCACTAAATGTCAGTGGTGACCCCAATCCAATATTATGACAACTGAA
CATGCTTATGCATCCCTCATGCCTTTATTTTTTATTTTGGGAAATCTTTCAGCTTCAGTT
TTTGCTGATATTTATGTGATTCTTTGTTCTGCAATTCAAATTTCTGGGAGCCAAACAGTC
TCCTTGGTTCAGATTACTGTTTTTTGACTAGAGCTTCTCGCTTCAGATTCTGTCATAAGA
TTATGGCTTAACCTATGGTTGTCCTTTGATTTGGTGCCATATGAAATAAAACATTATTTT
CTATGGCTATGTATTAAGAATTTTGTGCAATTCTGTTTTTCTTAGAAGGCTGAGGGTGTG
TTGTCAGACACCATGACTGATGTGACAGGTGTATTTTATTATGC

TABLE 1

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Sequence 2870

ATAGGGCGAATTGGACTCCCCGCGGTGGCGGCCGAGTCCTACCCTTTACTTTTTCCCCAA
GACCATCTCAGGGTGGAGCATTCTGTCTAAGAGAAGAAAGATAAGGAGGCTCCCACCCAC
CTCTCCCAAGAGCAGACATTAAACATCTTTGTGCTTTGAAGAGAGTGAATTTGGATAGTC
TTGTGATTCTCAAGACTAACTTCCAGAATTATACTTTAACCCCTTCCAGATATGGTCCGC
CTTTGGCATTGTGTGTACCTGTGATGGGGCGTGTGGTTTCCGGTTGTCTCACCTTTAATT
GTCAACCTCCAGTGTATGACTCTAGAAATATGAGGAAAAGCTTTTCAGTTTTTAAAATTG
CCATTTAAATTTAGTCTATTAAAAACAAACCTAGAGGTCTTGGGTTGCAGTTGATTTCAG
AGTATATTAATTTAGTGGGTCCCNAAAGTATTACATNTATTTATATTCTGGAATGAAAAG
G

Sequence 2871

CCGCGGTGGCGGCCGAGGTACTCCTTCGTAAACCATGGAGAGCCAGCCCAATGCACAGCA
GTGGATATCATCTTTCTCAGAGTCCAGTATCACAGAATCACGACTTTGTCCAGCTGCAGG
TGCCTGCAGGTCACACTGGCTAACTACTTCTGTGATGGGCTCTTCTTTCTGAGGTTCTGC
CAACTTGTCTACTACATAGGGTTGATCATCCTGTTCAGGAAATATTTCTTTCATTTGCTC
TGAGCTTAATATTGTAATTTGTATTTGATCTGCTGGGTCTTTGGAGTCAGGACTGGTTTT
ATCAGCAGTTTGATCTTCTGAGGTCTGGTATGTAGTTTGCTGGCCCACAGAACCTTCACG
TGTATTCACAGCCTCAATGCCATAAGGAAACTCTTT

TABLE 1A
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Sequence 2872
CCCTTAGCGTGGTCGCGGCCGANGTACAAGGTGAACCCTGAACATTCTGTGTCAGAAAGC
TAANGAAGTGCCCAGAGAATGATAAATCAATCAAAAGAACAAAGCGACAAGCATGAAAGG
CCAAATATGAGATAATTTGGGAATTTAAAAAATGAACATAATGGATCCGTAACACATTGA
ATTTTTTAAAATTCTTGAGCCTGTAATGATACTGGAGGAAGGAGTCTTTTGTTTAC
Sequence 2873
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTGGGGATATTTTGTCTCACAGATTG
TAAGAAAGGGGTATGGAAATCCCCAGGCAACAGTGTGCTCCTCAGCTTGCTGAAACAGAC
CAAAGACTATGTTCTAATCAAACCTTCCAGGAATCTCATGGAAATTTCATTTAATGCCTC
TCCAGGCACTTTTCTGAAAGCCCCCACGTTAGGGATGTCTTGGCTAAGACATCTCTCATG
GTATCCACAGCAACCCTGATGAAGCTCATTTCTGGAGAAGAAGAAAGTCTCTCAACACCT
CTGCTAAGTCATCATTCTCCCATNCTCACTGCAGCAGTTCCTGGAATCTCATGAAGGGAA
GCTTGGGACCCACCGCACACCCTNTGCAAATACCTCACAAGTAAACTTGGNAAATGCCG
Sequence 2874
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCCTAGCCACAGTAGTAATCACCACTGGCCT
GACTGAGCCCTCACCCTTTATACAGTGTCTCCTGCCACCCTCCTGGGAGAGGCTGTTCTC
GGCACAGCTGGCCTGGGGTCACACAGCTGGTAGGTGTAAAGCAGGCATTGGAGTCCAGGT
AGTCTCACTCCGTAGCCTGTCTCTTTAGCCACTGGAAATGTAGAGCAAAGCGAGAATTGT
CCAAAGAGATAAGCTAATAAAGAGGAAAACAGGCTGGGTGCAATGGCTCATGCCTGTAAT
CCCAGCACTTTGGGAGGCCAAGGA
Sequence 2875
CCCTTAGCGGCCGCCCGGGCAGGTACATCACCCTGCTGAGGGACATCCAGGACAAGGTCA
CCACACTCTACAAAGGCAGTCANCTNCNTGACACATTCCGCTTCTGCCTGGTCACCAACT
TGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCCA
GCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCT
CCACCTACCAGTTGGTGGACATCCATGTGACAAGAAATGGGAGTCATNAGTTTATCAACC
AACAAGCAGCTCCAGCACCCAAGCACTTCTACCTTGAATTTCACCATCACCAACCTACCA
TATTCCCAGGACAAAAAGCCCAGCC
Sequence 2876
CCCTTAGCGTGGTCGCGGCCCGAGGTACAAATAGAGCTGGAATGATGATGATCACAATGA
AGATGACAACAGTGGTGGCAATGACACGGCTGCCACTACTTGGAGTGGCCTCGGAGTTTA
ATATCAAAGGCTGGCCTGGGTTTGAGCTGGTTGAGGGAGAAGTGAGTGTATTGCATACAT
GAGAAAACCTGAGCAAAGGAAAGATGAGACTCAAATGGCAGCACTAAGACCATTTTGCAC
TGGAGTATCAGATATATTTTGAAAAGAAGACTGTAGAGTGACTTTTTGAAAGACATGGGG
GATTAAGCAGGTAAAGAGAAGCTTGAAGTGGTATTTAGAGATGCTACATTTAGTGACTTC
AGAAGGTATAAACTGAAGCAGCAATGTAGATTAATATTCAAGATATGGGGATAAAAGGGT
GACTAAAGTGGGATCCAAAGCAAATGGGTGCCCGAAAAACCANTGAAAGAAGAACTTGAT
GGAGGCTATGATCTAATTTACATTTAAGGGGAATGAGGAAAACCAGTGGGAAGAATTTGC
CACCCTTGAAAAATTAAATACTGGAAGTTCTGACCCAAAGAAATTAGGGTTAAAAAAAAG
AAATTAAAANGCCTTTCTTTTTGGA
Sequence 2877
CCCTTAGCGTGGTCGCGGCCGAGGTACCTCCTTCAGTGAGTTGTTGGCAACTAGGCAGTG
AAATGAGGGAGTGACCGCTCATGGCTCATGAACTTTGCAAGTTGTGCAACTCAACTGTCC
CACCTTGAAAGGGCTCAGGAAGGTAAAGAGTGTTGTTTTGGGACACAGGGATTGTTGCAT
TTAAATCTTTGTGACTGTGGTTTGGTCTCAGACTGGTTTTTCATGCATAAGTTCTTCTTA
CCCTCAGGCATCTGGGATTTTACCTGTTTTTCTTCCAGTGGTGTGCCCTCTCCGCCACAT
TGTGGAAGCGTGCTTTCTCAATCCTTCAGGAAGAAATTCAAAGACTTTNTTTTTTAA
Sequence 2878
CCCTTAGCGTGGTCGCGGCCGAGGTACATTATTTAGTGTAATGCCTAATGTTAGTCCTCT
TTATAGCATATTTTATACAATTTCTATTATTTAACAGGCCTTGGGAATTCAAAGATGAAA
TGTGTGTCCCTCAAGTAACTCACTAATCTATTGTTATAAGTAGATTGTAATTCATGAGTG

TABLE 1A
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CTGTAACAGCTATCCTATGACAGCACTGAAGAGGATGTGGACTTCCTAGATGAATATGTA
TTGAGTTGTAGGGGAGTAAGAATTCACCTACCAGTGAACTAGTGGACCTGAAGTGGTATT
CCAGATTG

Sequence 2879

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTCTCAGTTTTTCTTATAGGAGAAATATGGT
ATATGTTTATAAGAATCTTTTATGAGATTATAGATTTCAATGCTGTGGATAGTGTCTTGC
ACCCAAACAAGAAAGTCCATAATGGAATGATCTTCCCTCAGCTTCCTATCGATTTAGTTA
CCTCTTGAAAGCACAAAAATTAAAACATTGCCATATGTTGAATTTTTAAAAAGCACTTGG
AGTGAGCGAACATTTCCTGATAAATGCCTTTTAGAGATAGGTTCTTGATATTCAGACATC
TGCAGAAATGTTCTGGTTCCCAAAGTCATTTCACTTCGAAATAAAACACAGCTCCTTCAA
ACAGCACTTTTTCCACATAAATCTAAGTTGCCTCTCCCTGTGGACATTCAGAACTGATAG
AACAAACACTACTCTTTTGAATTTGATGGTTCGTGTCCTTTAAAGTGTTTGAGGACCTAT
GCAGAGCCTGTACACTTGGGGTAGTACCTGCCCGGGCGGCCGCTCGAA

Sequence 2880

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTTATTAAGCTCTAGGTTCATCAGATGACC
AGGAAAACATAGACTATCAGGACACAGACAAAGCAGAACTGCAGAATTATAGAAAATTCA
AGGTCTCATGGAGGAAAAGCAGTATCTACAATAAGAAAGAGACCCCAAACAGCACTCTAG
ATTTCTTTAAGAGGGATTATATTTCCTCCTTCCTCCCATTCTCCCTTCATTTCTTCCTAC
CTCCCTCTTTTCATCCTCTTCTCCTTTTATCTTTTCATCATTCCTTTCTTAAGCATTTTA
CTTAGTTACTACTATGTTCTAAGCACTG

Sequence 2881

CCCTTTGAGCGGCCGCCCGGGCAGGTACAAAATTGCTAATTTTATTCCAGTGATGATTAT
TTTTAACTTTGGTGATTACGTATCAAATTAAGGTAATTCTATAAAAATCTACAGCCAGTA
AACTGAAACTATAGCTAAAACTGTAGCTACTGTTTTTATATTTTCTTAGATGCATGTTGT
TTTATTATAATAGTTTAATGTAGTGGTTGAATGGAATATGTGGTTTTCTTCTAGAATACC
TTATGTGATTTATTCTATGACTTTTTTCCTTTGAACCCTTATGACTCTTAGTATGTAAAT
TTTCTTAAATTATACTCTTTTGTTGTTTATTCTAAACTACTTGAGGCAGATCTCAAAAGT
TGAATAATTACTGTGCATCTCAGAGAATTGTCTTGTGTCTTTCAAATATATTTAGTTGTC
TTTAGCAGTAACTCTTACATGGTTATTTGCATGACTTAATAAACATTTCAATGCCCCCAA
GTTACCTAGCAGAAAAAGTCCACTTTTAAAGACATCTGTAAGAGAGAACTTTATTTTTCT
TAAATTGGAAGCACATCATTTAGTCCT

Sequence 2882

GTACACAGCAAATACAATCTTATGTCAGTTATAAAGAATAATAAATAATTTTTTGAAAAG
CAAAGTGACTTGTCCATAACCACAATATTTTTCATTTTCAAATCTCATTTTTATTTCTTA
TGCCACATTGCCTATAATTATACAGCTAACAATTATCCCATGCTCAGAAGAAATAAAACT
GACGTAGTTAGTAATCAGTNATATATCATTCCCTTAAAACAAGTATTGCTGACTTAATAT
GCATAAAACTGCTGTCACATACCAAATATGACCAACAGGTAAAGGGTGAGAACAATTTCA
CTGACTACAATATTTATAGCAAAATAAAGTGTCTATATAGTGGGAAAGAAATATGCTTAA
AAAGAAAATAGGGAAAATGCCCAGTAGAAGAAATAAACTAAATTATGCAACCTGCCCTTA
AAAAAAAAGGCCTTTTATTGGTATTTCAACCTACCCAGAATT

Sequence 2883

CCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGCGTGT
GANACGAAGTTTNNNTNTTGTTGCCCAGGCTGGAGTTTGACCCACAAAATAAGGTTCCCA
NATCACCATCAACTAAAGTTCAAAATAGACAAACCCTATCCATCCTANCCAGNGATTATT
TAGTATTTGNGGAAAGCCTNTAAATTTAAAGGGTCCACGAACAAAGACNGAGACNAAAGA
ATNAGAGCNACATGTAGGAAAAAGAGATTTACACAGACTNTAAAACATTAACAAAACCAA
GATTTGTATTACCAGAAAAAGAGTTNTTTTGTNTAAGAAACAAAAATAAGNTGNTNTNGG
GAAAAAAAAAAAAAACAGNTGGAAGCTTAAAAGGAAACTTAAGGAAACCTNCCNGAAAGA
AGAATNAAATGNGNGAAATNGAAATAGGGAGAGAAAACTTNAAAGCCCAAAAATAAAAAT
TGAAATGACNCATCNTTTTNNGGAACCCAAAAAAAAAAGAAAAAAA

Sequence 2884

TABLE 1A
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CCCTTAGCGTGGTCGCGACCGAGGTACAGCAGGCCTAATGATAAGACAGCCTACCTGGGC
TCCAGCCTGCCTGTAACTGTGTGAACTTAGCAAGTCCTTCACTCAGTCAGACTTTGCTTT
CTACATCTGAAAAAGTCAAAAGAAAGAAAATAAAAACCTCAGCCTACCTCCCTCTCAGGG
TTGTTACAAGGGGGAAAAGAGCATAAAACAGATGCAAGAAGTGCTTCCTTAAAGAGTTCA
ATATGAATTGTTTTTCTGTTTAGGTTATGTTAAATCTATTTCATATTATTAATCCCTTCC
AGATGACACCCATCAAACAAACACCCAAATGGTCCATGTCTGAAAGACCACAGACTTTTC
TTTTGGGAAAAAAAAAAA

Sequence 2885
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTCTTTTTTGAGA
CAGTGTCTCGCACTGTCACCCAGGCTGGAGTGCAGCGGTGTGACAGGCACATGCCACCAT
GCCTGACTAATTTTATCGTTTTCTTTTTTTTTTCAGGTAGAGATGGGGTTTCACCTTGTT
GTCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCTGCCTTGGCCTCCTTACGT
GCTGGGATTACAGGTGTGAGTCACCACGCCCAGCCATTGATCTGTTGCCTCTTACTAGAG
CTTCTTGTTGGATTCCAGTTTTTTCCCACTCTATTTTATTCATTTGTGGCCTTTGGAAAA
TAGATCTGTTCATTTCATTTACCCACCAAAAAAGGATAAGTTCTTACTCTTTGAAATAAA
AATCAAACTCCTTAGTCTGCCTCTGAAATAAAAATC

Sequence 2886
CCCTTAGCGTGGTCGCGGCCGAGGTACCTATTGTATCAGAAAAATGCTAATTAATTTTTT
GCACATAAAGGGCATTTTAAACTTGGTTTTATTCTTTGTGATAAATATGGATGATGAATG
GTAATGTTAAACAGAATTCAAAAGTTATCAGTTTGGCTAGCCAGACACAGTAGTATATGC
CTATAGTCCTAGCTACCCAGGAGGCTGAGGCCAGAGGAGCCCGGAAGTTCACGTTTAGCC
TGGGCAGCATAGTGAGACACTTGTCTTTTATAAAAACAACAGCAAAAAATGATCAGTTTT
GGGGATAAGTAAAGACAAAATGGC

Sequence 2887
CCCTTGGCCGCCCGGGCAGGTACGCGGGGAAAAAAATATTTTTATCTTTTAGAATATCAG
TTTGTCCCTTACAGTAATGTAAAATTACATTTATTTTATCTTTAGGATATAACATCTNAA
ACAGAGGCTATTAACTTTTACACTATGTGTAAAGAAACAACTTGAGAGGCAACTTTATTA
TGCAACCACGATCATGAAGGGGATGAATAAACCAACTACTTAGAAAAAAAAGTGCTCTAT
TATCATGGAATGGTTTTCATTGATCCTTTCTTGTATTTCTGGAATCACTAGAACTAATCT
CCAATCTATGCACTGAATTTTTGACATACGATAAAATGCCATGATTTNATTAATGGATTA
AAATACTTGTCTGGAAGTATANCTTTTTTAAATAATTNCAGTGGATGATAATTTNATTGA
CAAGGTGACANACCTAAATTCTGTTTTCNTCCNTGCCTTGCAAAANGAAACTTTTAGGGG
GATTAAAA

Sequence 2888
CCCTTAGCGTGGTCGCGGCCCGAGGTACAAATAAAGTATTCCAAGGGTTCAGAATAGAAA
ATGATTTCTTCCAGCTTGGGGACATTTGGGAAATTGGGATATCCTTTGGGGAAATGTAGT
AATCANTATATTCTGGGAAAACATAGTAGAAGAATGAATAAATAAATTCCATTGAATTTG
GAATATGTTGCCATTCTCCCTGTAACTAATGCTATCANGATAAAGTAGAAATACCACATT
TCANAAACAGCTGGAGTAGACAGGTCTTCATAGGCTAGCTTGGGAAACCTAATAACTATT
AATAATGAAATTTTAATTATACTCTTGGATTCTAAACAAATGAACACACAGTGATCTTTT
TGACTTGCTGCTTGGTTAT

Sequence 2889
CCCTTAGCGTGGTCGCGGCCGAGGTACTGATTGTTGAACTCCGAGTCACACTCATTATGA
CCTGGGAGGCAGATGTCTAGCCTTCAGCTAATTATGATGGGCAGTATGGAGGAGAGTGTG
AGTCAAACCTTCCATGGAGGAAAAGGAGTGAACACTCAGGGAGACTGGAGCCGTTTAAAA
GGACATGGGGAGGATCTAATCAGGATCTTGAAAATTTAATGTTCTCAAAAGTTATTTCTA
TCAGTCTTAAGTAATAGATGAATTTCTTTTTGCCACTGCAAAGATGATACTGTCTTGATA
ACCATTCTCTATCATCATGCC

Sequence 2890
CCCTTTCGAGCGGCNCGCCCGGGCAGGTACCACCTGACTCAGCTGGGTGCATTTGACCAG
TTTTGCCCCCATCTGTAAATATCCCTCAGTCCCCATGGAGCTGTAGAGGTGAGTGATGAA

TABLE 1A
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GCAGTGACAGCTCTGGGTAGGAACTCAGCTTAATTTCAAGTTCCAGACCCTCTCCATCCT
CAGGTTCTTCTTCTGTAAAATGAAGATCCCTTTGCGGTGAAACGTTTTGCAGCTCTGGAA
TCTGAGGGTGTAGGAGGAGCTACAGAAGAGGGGTATAGGACTCACCTGAATAAAGGTGGC
ATCTGTGATTACTGTGGGCGAGGGTGAGAGGGAAGAGGATACTGACCGCTAAGCCTTGCC
TTCTTAGTCCAAATTTTGGTTGTGCATTAAATATGTCTTAATTTTTTTTATAACTTAACC
TCACC

Sequence 2891
CCCTTAGCGTGGTCGCGGCCGAGGTACAGAAGGCTAAGTATCGCTAATTTCTATTCAGAG
ACACAGGGACTCTACCCTTGTTCCTGGCTTTATAAAGCTGCTCAGTTCTAATGTGCACTG
CACACAACAGCTGCCAGGGCCACAAACACCCCCAAGCAGACGTTAGGCTCTCAACCCCTA
AGATACAGTTTTCCTCTCAATAGCTCATAAGACTCTGCCCTCTGACGTGAGAAAATAGAA
TTCTGTTGTGCTTTTTAAGTATGCCTATGGCATCTTTTAAAATATACCATATATGATCCA
GTATTTCTTTGTGTTTGGAGTGTGAATCTGCAGGTGAAAGAGTGTGTTCTACACGTGCCC
GATCCATCCTCATTACACAAATTCACCCTCTACTTTAAAACAGGGAATTTGGGCCTTTGA
CAGGAAACAAGCCGGACAGTCATGGGGCCAAGCTGGAATCAAATGTAAATATTTAATTTC
CTCCTGTTAAAAGCAGAGTGGACCCACAGTCCCTTCCAAAGTAA

Sequence 2892
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCCAACTAGGAATTGGGGCTCAGCAAAGTGC
CCTGGAGGAAGTGATACCCAAGCTGAGAGATGAAGAATAATGAGTGGGGTAGCCAGGGAT
AGGTGAGAGGGAACATCCTCCAGGCAGAAGGAGAAGCAGACACAAGGGAGGGTGTGGCAA
GAGATGAACCTGAAAGGCAGTCTTGGACCATATCAGAGAGGACCTTATAAGCTCATCATG
AAGCTTAAAATGAATCCTTANGTCATTGGACAGCTGTGGAGAAAGAGTTTGTAAGGGGAG
GGAAGTTATATGAATCACAGGAATTTTTTAAAGGTGGCTATGGTAGTAGTGTGAAAAGAG
AAATGATTAACAGTANGCAAGCTCAGAGAAAGAAGCCCGCCAAGGAGGCTGTCACCATAA
TCCAGCAGAAAGAAGATGGTGGCCTGGACTGGGGAAAGTGACTGTAGGGGATGGAGAGAA
ATGGATGGGCTTGGGAAATGAGAAAGGGATAGGATCCACAGGGCTTAGGATTTGAGTGAA
TAGAAAAGAGAGAGAAAAGTTAAACCAGACC

Sequence 2893
CCCTTAGCGTGGTCGCGGCCGAGGTACCACTGCACTCCAGCCTGGGCGACAAAATGAGAC
CCTGTCTCAAAAGAAAGCCCTCTCCTTAGCTGAGCAGAGGAAGGGAAGGAGTGTGGCTAT
GAGAATATGATTTATGCCATTTTCTGTTTTTAAATCTAGAAGATCTTCTAAGCACAAATA
CAGCTACAATGAAATATTTTACAGACAAAATGTTAATAGACCATATTCTTTGAATTAAAT
TTGTTTTTAATTTTCTCTACACATTTTTTTTTTCCTGGAGTCTCTTAGCTCTAAATATAT
CAATCAGATTTATAATTTTTTTTTACCTGATTCAGATGTCTTACATTTTTATATTAAATGA
ACCTTAAGCATGATTCTTTTGGTAAGCCAGTATGAATGCCAGTGGTTGGGGGGCGGG

Sequence 2894
CCCTTAGTGTGGTCGCGGCCGAGGTACAGTCCACAAAATGGTTTGCTTCTGAAAAAGCAG
TAGTAGTCTTACATCCAANATTATTCCTAAAATAAAGTTTCGACCCACATATATAATGAA
ATTGAAACTGCCTACATTGGCAAAGCCAGAAAGAGAGTAAAAAAGATGGGGTAGGCCAGT
TGCGGTGGCTCATGCCTGTAATCCCAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 2895
CCCTTAGCGTGGTCGCGGCCCGAGGTACTGTCTGTGACAAGAGCAAGAAATACATTTTGA
AGTGGTTTGTTTTAGTAGCTAAAGTTATCCTGACTGATCATTTGATAAAGGATATTTACC
AGCAGTTCACAATGAACATACTACTACATGTATATATTAAAGATCATAGCCTGCACAATA
AAAAGAAGAAAATAAATAAATTAGAAAATAAATAGTTTAGAAACAAAGACACAGTATTAG
TTCTAGTTACAGAATATGATTCTCCAAATAGTATATGCTATCAGCTTCATCAACAAGTAA
CCAGAATACCAAAGAAGACATAGAAATGGCTAACAAGTATATAAAAACATGCTCAACATC
ACTAATTATCAGAGAAATGCAAATCAAAGCCACAATGAGATATTAAGTCACACCTGACAG
GATCACTATTATCAAAACTACAAAAGTCAATACTTATTGGCAAGGATGTANAGAAATTGA
AACAGCATGGAGGGTTTCTCAAAATATTAAAAATAGAACTACCATATGATCTGCAACCAC
TTCTGGGTATTTATCCAA

TABLE 1A

Sequence 2896
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGA
GACGGGGTNTNACACTGTTGCCCAGGCTGGAGTGCAGTGGTGCAAACATGGCTCACTGCA
GCCTCGACTTCCTGGGTCCAATNAATCCTCCTGCCTNANCCTNCAGANTAGCTGGGACTA
CAGGCATGTGTCACCACTCTAGACTAATTAAAAACAAAAAATTGTAGAGACAGTGTCTCG
CCATGTTGTCCAGGCTGGTCTNAAACTCCTGGCAATCCTTNTGCCTTGACCTCCCAATNT
GCTGGGTTACAGGTNNTGAGGAACCTGCCTGGCACCCAGTTTTTTTAAATNAANTTTTCC
TACTGTNCCCAACCAAAATGACTTCTTATGAAGCTTNTCATCANTTAATGAGCTTTATTA
ATGANANCTTCAACACTGGNCAAGGGGGGAAAAAT
Sequence 2897
CCCTTAGCGTGGTCGCGGCCGAGGTACAGGCGTGAGCCACCATGCCCAGCCTGAATCCCC
CTTCTCAAAAGTAACTTCCATTCACTTTGTCCCTGGCAGTCTGCTGGTGACCATGATTTC
TAAGGCTCACTCATGGGACCAAAGGCAAGAAGAAAGGGAGGAGGGTGGTAACCAGATAAA
CTTTGCAACCCCTTTGATAGGACTTTTTGGGTGAGAATTTTTATGAAAAATAATATATAC
TTCTACTATAGATCTGCCTCTAGTTTCAACCTCTAGTTTTAGCACTGATTTTTTCCCCTT
AATTTCCAGAAGCATGATATAATAATCTTTTTCAAAGAAAGTGGG
Sequence 2898
CCCTTAGCGTGGTCGCGGCCGAGGTACCCTGGGGGTGTCATCAACCAAGATTAGAAATAT
GGGAAGATGAAATGGTTTTTAGGAAAGATAATGATTTTAATTTTAGAACTGTCAAATCTG
AGGTGAATCCTTCAAAAAAGTCAAATGATAGTTCCAAAGAGTGACCATGAAATCTGACAA
ATAAGAGTTATCTTAGCAAGGAGCAGTCTCATGGAAATAATAAAAGCTGAAACAAATAGT
AGTGATTGAGGAGTAAATGAGAGGTGAAGCAGTGGAGATAATACAGGTTCTGTTTGGAGG
AGACTTGGCAATAAAGGTGAAAAAATAGGATGGATGAGATAGCACTCAGCAATGAAATGT
AACAGAATTGATGCAACACGGGTGAATCTCAAAATCATGCCAAGTGAAAGAAGTATAGTC
CCTATAATCACCTATAGTCCCAATTACTCAGGAGGCTGAGGCAGGAGAACTGCCTGAGGC
CAGGAGTTTAAGACCAGTCTGGGCCAACACAAGCAAGACCCCCATTCTTTTAAAAAAAAT
TAAAAAACATTANCCAGGCATTGGTGTGGTGCCCCCCNTAGTTCCCCAGCTACTCAAGAG
GCTTGGGTTGGGAGGACTACTTNGNNCTCNTGAGTTNAAGACCAGTCTNGGGNAATCAAG
CCAGANCCTNNTTTCTTNAAAAAAACAANCCATAAACCTT
Sequence 2899
CCCTTCGAGCGGCCGCCCGGGCAGGTACTCCTATCAGTGATGTATGAGAGTTACAGNTGC
TTCACATGTCTGTCAACATTTACACTGTCACTGTTTTTTATATTAGCCATTTTAGCATAT
ATGAAATAACTGATTTTAATTTACATTACATTTCCCTGATTAATGAGTTGAGCACTTTTT
CATATGCTTATTTTTCATTTGTATATCTTTCAAGAAGTGTCTTTCATGTCTTTTCTCATT
TTAAAGTTGGGTGTCTTTTTATTGTAGGTGGTTATTCTTTGTATTTTGAATATAAATCCT
TTTGATAGATTATGCCTATGATTTTTTAAAGACTCTATGTNTTCACTTATTGGGGATCTT
TCGAAGGAACAAAATTTTTTTTTATAAAAATCCAACTTTTATCAGGTTTTTTTAATNTTAA
TGGNTTTTTATNGACCCTCAAAAGTCACCAATAGGAACATNATTTTTNTTTCCTTANAAA
GTTTTTATGGGTTTTGGG
Sequence 2900
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATCTCTCCATATGCAGCAGGAATGTCTTTTT
TATTTAAGGGCACATTTACACAAAGAGCAAATGGTCCAGACTCAGTCTTCCATAACCTAG
AGTCTGAATTGATCACTCTATAAAATGGAAAAATGTTNCTTTTCTTTTTTTTTTTTTTTT
TTTTTTTNGGNTTTTAACTTTTTTTTGAGACAGNGTCTCACTTTGTCAGCTAGGCTAGAGT
GCAGTGACACGATCACAGATCACTGCAGCCTTGACCTCCTGGGCTCAGGTGATCTTCCCA
TTTCAGCCTGCTGAGTAGCTGGGACCACAGGGCGCGTGCCATCACACCTGCCTAATTTTT
GTATT
Sequence 2901
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGTAGTTATAAAACTGACACTGTTTACAATT
AACAGTGTTCTAGAATCCANTTGTTTGGAGGGTATTTTACATTATGAAATATTGACTTCA
GATGGTCACTGCTATTTTCGAGATCTATGACTATGTTTCAAGGAGATCCATTGGTCTGAC

TABLE 1A
6/599

AAAATAAGAGATGTATATTCCTGAAAATTGCATGTCCTCTGGAGTCTGTTGTCTGGATGG
TATCAGAGAGGTATTAGAACTGTCCTCAGAGGTCATTACAATTTTCTCATAGTGTTTGTC
AAGGAAAGAGTTGGGGTGTGAAAGGTCTTCTATAGTATTGGGTCCTAACCAAGTCAGGGA
AGAGAAGCAAATGCC

Sequence 2902
CCCTTAGCGTGGTCGCGGCCGAGGTACTTAAGTAAAGAAATTAACCTCTAATAATACAAT
ATTTTTATTAGTTAAAAATAAAGGACATATGTATCTACACACACATATATGCTATACATA
AATACATATGAGAAAGACAAAAATTGAGAGATTAAGAGACAGAGAGAGTTTGAGATAGAG
AGTTCAAAAAAAAAGCAAATGATATAAATTTACAAGAGTAAATAGAATAATCATGTGAAG
GGGTATTAGGAGTTCTTTGTTTTATCTTTTAACATTTCTGTAAGTTTAAAATTATTTTCA
AAATAAAAGATCTAAATATTTTTCAAAAAATAAAACCAAATTTTTGAAAATCTAAAAAAT
TTTCAAAAAATAAAAACATAAACATAAAAAC

Sequence 2903
CCCTTAGCGTGGTCGCGGCCGAGGTACTAACAAGGCCAGAAGCCTTCTACCTTCAGTCTT
GCTCTGGCAACCCCACCTCTTCTTTCATCTTCTCCCATCTAGGGAGATGTCTAATGGGCA
TGATAGTTAGAGGTGGTGAGAGGATAGGGACAGGAAAGTCCTGCCTGTGGGACAACAGGG
ATCAGGGACTCAACAAGTCTTAGGCCTCTCACCAGGACCAGCATGTTGGGAAGCTGCCTC
TCCATCCATATTCAGTCTCAGAATGGGCAGCTGCTTCCCCTGCACCCTCATCTTGGTCTG
GTCTTGGTGATAGGGTGGGG

Sequence 2904
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTGGTGACAAGATCTCAGCTCACTGCAACC
TCTGCCTCCCAGGTTCAAGTGATTCTCCTGCCTGAGCCTCTGAATAGCTAGGATTACAGG
CACGTGCCACCATGCCTGGCTAATTTTTGTATTTTTAGTAGAGACAATGTTTCACCATGT
TGCCCAGGCTAGTCTCAAACTCCTGACCTCAAATGATCCACCTGCCTCAGCCTCCCAAAG
TGCTGGATTACAGGCGTGAGCCACTGTGCCTGCCCTAAGCCTGTGTGTTTTATTCTTCTG
ACTTGCAGGCTAAAGCGGCAGCTCTTCCATATCTCATTGCTATCTCCTAGGGCTTCCGCT
AGGAGACTGATCTGGGGCTAGAGGCCTCCCTCTGTGTACACGAGAATGCTGGAAATGTCA
CCTCTCAGGGCTCTGCCTGCCTCTCAGCCCTGAAAGCCATGGTGGAAAGGGGTGGCGCTT
GACATAGACATCTGAGGAAAAGAAGTGAGGGAGGGTAAAGGGTGGTGCAGTAAGANGAAG
GGGTNGGGAAGG

Sequence 2905
CCCTTGGCCCGCCCGGGCAGGTACATTATCATTATTTTATATCTTGCTCAATCTTTTAGG
CGTCAATCTCACATCAAAAAGTTTATTGGCCTATAACGGCACGAGCCAACTTCAAATTAT
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GCTCTGTTTTCTGTGAATATTTATCCCTAGCTAAAAAAAATTCTTACATCTTCAGAAGAG
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Sequence 2906
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CATAATATTACATTATACCTTTCTTGAATGCTGACGTTGCATACAAGGGTGATCTGTAAA
CCTCCATCATTTCCTTGCTCTCACTTTTAGACCTATTTCCTGACATAANAACCTTGGTGG
GTAGTTCTGGATTTTTTTTTTNCTTCTTCTTTTNTTATTTTTGAGACAGGGGTCTCACTG
TGTCGCCCAGGCTGGCATGCANTGGNTGCTCAAGTGATCCTCCAGCCTGTGCCTTNCTGA
GTNAGCTTGGGACAACAAAGCACAANGCCACCAGGTNCTGGCTAATTTTT

Sequence 2907
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ACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACC
CCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGG
GCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAAGTTTATCAA

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CCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACCA
TATTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGA
Sequence 2908
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGCTAGTATTTGTGGGTTTTGTATTTTACAT
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Sequence 2909
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AGGAAGAACCACAAATCTTCCTGCTTGAGGATCATTAGAAGGCAAATTATTTAATC
Sequence 2910
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CCTAGACTTGCACATGAAGTGCATATGTTCATATTTACCCGTTTGGAGATGGGTANGATA
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Sequence 2911
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AATACAAGGAAAGCTTTTA
Sequence 2912
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CAGAGCCTGTAACACTTGGGTAGTACCTGCCCGGGCCGGCCGCTCGAAAGGGGC
Sequence 2913
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GAAAGGCACTCAGATGTTCCTGCATCTCTGATGGAAAACACAGAACCTGGCTCAGCTGAG
AGACAACAGCTCTGTCATGGGGAGGTTGAAGTGACCCCACAGCAAAGTGGAGAGGAAGTT
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GGCCTGAGTCATC
Sequence 2914

TABLE 1A
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CCCTTAGCGTGGTCGCGGCCGAGGTACTCACCTGCCACATCCTAATCTCAGCTCCTCTCT
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GGAGGCCGAGGTGGGTGGATCACGANGTCAGGAGATTGAAGACCATCCTGGCTAACACGG
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TTGCC

Sequence 2915
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TTGAACCTAAGTGTGTGCTAGTGTATTGTATATTTTTCATTAATTACTTTATTGAAAGTT
GCTTTGGGAATCAATTCACTTCAATATATTTTACTGTTCTCAGTGAAGAATGTGACTAAT
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ATGAGTTGGAAAATAAC

Sequence 2916
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GTAACTGTGTCCATGCATCTCATTTTCTCTTGAGAAGACTAAAGAACTGACCTTTAAAAT
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CCCTCCCCGCTACACAACAGCAGCCAGCTTTGCTAGCAGTCACTTCTATGCTTCTCTCCC
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Sequence 2917
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Sequence 2918
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ACATGTTGGGATATGATTTGCCAACTGGTGAGACTATTTCAGGTATTAACATANAATATA
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ATAAAA

Sequence 2919
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CATTGTCCATCTCCCAGAAAACATAGGCGTTGATACACCAACACAAAGTAAGCTGCTAAA
ATACAGAANATCCAAGGAGCAGCAGCAGAAAATTAATCAGGTTAGTAATTGATGGAGCCC
AAAAGAAATTTAGACAGAACACTGGGTAAAAAGAACACCTCTATTACCACCACCCTGATT

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ATNCCTCAANACTATGACCAGTGAAAATGAAAAAAAAAAG
Sequence 2920
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CTTGGCTCAAAATAAATTTAACTGTGATTTCTCTAATTTTTAGTGCCTACTGTTTCACCA
GACACCTAGAGTCAATAGTGTCCTAGAATCTACGGTGTCCAGGGCTTGAGCAAGATACTT
TAGTGAATATAAACACTAACGAGACCTTGCCTTTTCTCAAGCCTACAGGATATCAGCCTA
TTTGAAAAGTGACACTGGCTTTACACCCAGAAGCCCACAAAATAGAATGATGTAACTGAA
TTTTTTGGTAGCTCTCTGGGTAATTTATGTGGTGTTAGGACTCTTTGGGTTTGAAAGNAA
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Sequence 2921
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AGTGCTTGAATCTCTTCCTACGTTACTTCTCCTTATTATTTAACCGTTATTTAAATGTTA
CTACTCCCATTTTACAGATGGAGAAATTTAGCTTAAGGTAATGACAAGATTGAACTTCAA
GTTTTCTGACTCCAAAATATGCCCTCTTTCGACCACACCGTATTATCTCTAAATATGGAA
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CACATTATAAACATGGTTTCGGGGTCAT
Sequence 2922
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CATAAGACTCTGGGTGCAAATAATTGAAAAAAATATTTTAGAAGCATAATATCAATTCAT
CTAGTTTTAAAGTTTTCACAAATTATAATAGGGAATTCTGCTTATTTCACAAAATAATTA
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Sequence 2923
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CACTATGATGGGAGAAGAGTTAAATAAACAACATAACAACAAACTAACTTATATACTCTG
GTGAACACCTCGATTTCATGATNAAAGGGAATATACATTTATTTTCAAGAACTGANTTAC
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Sequence 2924
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GTTTTAAATTAATTGACT
Sequence 2925
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CATTGTTAAATATCTAATGTCAATTAGCTGAGAAAGAGAAATGAGGCAAACAAATTAGAA
AGGAGAAGGTAACATTATTACTATCAGATGTTATAAAAGAACCAACAGGACAATCTATAT
AAACATCCCCGCGTACCTGCCCGGGCGGCCGAAGGG
Sequence 2926

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CCCTTNTTGTGGTCGCGGCCGAGGTACAGTCCACAAAATGGTTTGCTTCTGAAAAAGCNG
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ATTGAAACTGCCTACATTGGCAAAGCCAGAAAGAGAGTAAAAAAGATGGGGTAGGCCAGT
TGCGGTGGCTCATGCCTGTAATCCCAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 2927
CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTAATGTTTCTTATACTTGTTTCTTCAGAA
TTTAATTAGTTTTAAAGGAATTTTTCTCATTATAAAATACATAAACTCTCAAATTCTTTT
TGTTTTGTTTTGTTTTTTTGATGTAAGTTCTCGCTCTGTCACCCAGCCTGGAGGTTGCAG
TGAGCCGAGATCACACTACTGCACTCCAGCCTGGTGAC

Sequence 2928
CCCTTAGCTTAGCGTGGGCCGGGGCCGNAGTACATTTACAGAAAGGCCACTGCAGCTGCA
TCATAGTTCTATAACTCTTCAAAGTCCCCAGGCACCCTAAGTAGATAGCTTGAAGCTTCA
CCTTTACAAAGTCCAATCCATTGCATCAAAAGCCTACATTATCCCATTTCCTGTGGCCTA
GAGATTACAAATCACCTGAAGTAATACCAAAACCCAGTGAGTAAAGACGGAAGTAAATCT
AGTGAGTTTTCAACCACCCACCGNCCCCGAGATCTTAAAGGAAGCAGTAACAAGCCACCT
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TAAATACCTTTTACAAA

Sequence 2929
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GATGCTATTTGTTTAATCACCAGAATGGACAAAATTATACTTCATTTACTATCAGGGAGG
CATGGGGAGAATAGAGGCCTAGGGGTGCCGTCTTGTGGCTCTTACTGTTTTTGTGTATCT
GGTTTTTTTTTTTTTTTTTGAGAGGGCTTCCATTATGTTGCCCGTGCTGGACCCCAACTC
CTG

Sequence 2930
CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCAAGTCTGCATGGCAAAAAAGGTGTCC
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CCTGACTTTTGATTATCTGTAAAAAATCANGGCCAATAGTTTTGAACGGGAAGAGTAAAT
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GTTNTTCTTTTTTTNATCNAGCCATGTGCCCTACCAAAAAACATAAAATGGTGGTTTCCT
GTGAACCCTCAAAAAAGTAAAATCAGTGAGTGNGATGNAGGGAATTNGGG

Sequence 2931
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TCCTGAT

Sequence 2932
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AAATAAGGTAACCTGNTGATAATGGGGAAATGCTNGGAGGAAAATAAATTGGGGAGGCNG
GGCGGGGGGGT

TABLE 1A
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Sequence 2933
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TTGGGAGGGAAAACAATATGTGAAGAA
Sequence 2934
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CNCCTNACTTTGGAAANACANTAAAACTAGCCATTTAAAAATTAATTCCAATTAATTTGC
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Sequence 2935
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TAACGGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCC
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Sequence 2936
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TTGACTTTTATAAGAGAAACACTCANCCTTTTAATTGCTGAANGTCTGGCCCATAGACTA
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Sequence 2937
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CTAACCA
Sequence 2938
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AAGTCATAGATACCGGCCTTTATCCCCAAAGAGTCAATTCTATTGTTCTTTCTTTCATAT
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GGGCACAGTTATACCATGTTTGGATCCACATGGATGAAAATTTACTACT
Sequence 2939
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TABLE 1A
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ACGAGCATCTAATAGCGACTGCTGCAGAACTGGTGTGGAAAAGGTTTCTATTTTATAAAA
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ATCGTAATGATGATTTAGTGATATACTAGACTGGATGAAAGAGAGGTCACTGTCTTTTCA
CTATGGATTCATCATAAACAGTATCATT

Sequence 2940
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TTGATCTCAGCTCACTGCAACCTCCACCTCCCGGGTNCAGGTGATTCTCCTGTCTCCAAG
TAGCTGGGATTACAGGCATGCACCACCACCTCCAGCTCCTTTTTTTATTTTTAGGT

Sequence 2941
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CTTTGGTTAATGCTCTGGTTACAAAGTGGCATTGCTGTGGGGCAGTCAGCTGTAACCC

Sequence 2942
CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGTGATACATTCTAGCCTTCTACAAAGTGCA
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CTCTTTAATCTCCACCATTGTGCATAATTTTGTGATAATGAAGCAGTTATTTTCTTCTCT
TGATAGACATTTTATGAAGGCAGAGACTATGCCACTCTTGCTTACAGTTGTAGCTCCAGC
ATCTAACATGGTGGCTTAACACATAGAAGATGCTCAGTAATTACTTGTTAAATGAATGGG
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CACACCTGAAAGAGACATCTTTCCAAGGGTGATNAAAAAAAAAGGTCATACCCTTTGAAA
AA

Sequence 2943
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TTTTGGTGCTTAGGAAGTGCTTTTCAGGTTATATTAATATATGCTTAGTCTTCATGCTTT
CAAGTCCTGTGGGACGTTAATGTTAGTCTTTTAAGTTGAGTCCTTTTTGGTTATATTAAG
AGGTAGTTCTTGATGTTTCAAAGGCCATCCAGAAATAGGAATGCCTGAACAGGAATTTCC
AATTAAGTCGGTCAGAATCCTGAA

Sequence 2944
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TGTTATGGACTAAGTAAGAGCTACCTGAGTGAAGAAGGAGGGAAAGGAGACTCCATACAG
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Sequence 2945
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TGATACTGAAAGANTCCCTGTAGAGGAATAGCAACTGGATANGTAAGCNACTGCAGAAAA
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NCAAAATTAAAAAAGNGGAAAACCAAGGTTNGGCATTAATTGGTTTTTACNAAAAAATTT

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TTAAAAAAATTTGGGGGNATATGNAACCAACNANAATTGGTNANCTTAANATAACNNACC
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GAAAAAANAACCTTTTGGGGNTTAAAAAAAATT
Sequence 2946
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AGTGGGTGTATAAACACATTGCTGCAATTAAGTGATGGAGACATGAGTGTTCATTGCACT
ACAATTACATTTTATTGAAAATTTCCTCACTCAAATTTATGGAATAGGTATCTGTTAGAA
ACTATTGATCATTCTCTCTAAATTTGAAAAAAGAAGCTGTATTTGACTCTTATGTCCCAA
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TCTTTT
Sequence 2947
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TTGAATATCATGCCTTAGTATTTGGGCTTTATATAATTTAGTGTGTATATTAATTTCTGC
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CTCTTAAAGACAGTGTGGATATCACTGAAAGTATTTTGGGGGAAAACTAAATTTTAATGT
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Sequence 2948
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Sequence 2949
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Sequence 2950
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Sequence 2951
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TTGTTTTTTTGGCTACTACTAAATTGACTCTGATCACATGGAAGTGTAATAATTTTCTTT
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GAAGAGGACATTTTCCAAATTAAAGAATTAGGTATTTNTTCATAATTCCCGGGTAGTA
Sequence 2952
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CTTAGTTACTACTATG
Sequence 2953
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TGGAATGTGTTATTATATTAAATGGTATTTTATATGCA
Sequence 2954
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Sequence 2955
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Sequence 2956
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TCTTCAGATAATAAGAAACCAGATACCTA
Sequence 2957

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TAAGAAGTCTGTCTTTTAACTGACTACATTATTTATATGAAATAGAATTCTAGTATATTT
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CCACTGGTTTGCAAGTTATACATTTGATTTCTTTTCTTTCAGTGCCATGCTCTGATAAAA
TAAAGGACATTTATTACAGAAAA

Sequence 2958
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TATAAACCTTAAACTGTAGTGACTNTTAGGAGAGTGAAATTCATGAATATAAAGGTAGTC
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TTGTCACTGTTCTATTTGATTTGCNTATCTCTACAGGTGAATGAATTTGTTTNNTTTGAA
GAGGATGGGGGAAGCNTTTNCCATTTTAAACAGGGATAAAAACTGAGGGAAANTGA

Sequence 2959
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AGGTCTCATGGAGGAAAAGCAGTATCTACAATAAGAAAGAGACCCCAAACAGCACTCTAG
ATTTCTTTAAGAGGGATTATATTTCCTCCTTCCTCCCATTCTCCCTTCATTTCTTCCTAC
CTCCCTCTTTTCATCCTCTTCTCCTTTTATCTTTTCATCATTCCTTTCTTAAGCATTTTA
CTTAGTTACTACTATGTT

Sequence 2960
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CTGAATNTGGTGTAAGTCATTTTTAAAACTTCTGGCCAAAACCCAACCATAATATGCTTT
CTTGTAAGCCANCTTCATATACCTAAAGAAAACATGTGAAAGGCCGGGCACCGATGGCTC
ACTCCTGTAATCCCAGCACTTTGGGAAGACGAGGGGG

Sequence 2961
CCCTTAGCGTGGTCGCGGCCGAGGTACCCACTGATGTCGTCATGGTGGCAAGTCAGTGTT
GGCCCTGTCCTAACCACAGGGAAGGGGTTCTCTACAGAAAAGTAGAGTTTAGATCTGAGA
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Sequence 2962
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ANAAGTCAAAACCTAAGGGGTCCCTGCTTGGCTGGGACAGAGGCCGCANACCTAGGTCCA
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CTTTCANAGTGAGTGCAGTAGAGTGGGGCTGGAGGACAGTTTTGACAGATCTTGAGCAGG
TGCTTGAATTTTAACCCAACATCCACCCTTACCCATGACCCAGGTGACATTTCAGAGGAG
GGTTCACCTGCCCTGCAAAGTAAGAGCTGCAAAATCA

Sequence 2963
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AAAATAGTTCATTCAAGTGGTAAAACAAGACAAGGCAGAGGACGATGTCTCTAACTTCCC
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AAAGGAAAGTTAAATT
Sequence 2964
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GAAACTTTCTGTGCTGGTTTCCCCTACCCCACCTTTCTGTGCTTGATAACAGAAGCTGTT
GGGAGCCCCACCTTCAGTCTTATTTGTCCTTCCTTGCNGGTTTTTCTTTG
Sequence 2965
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CTTTCAATTTTCTAAATATTTGAAATTTTCTTAATAAAAAGATAGGGAAACAAAGGTGGC
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GACTCAGGGATCCTGCAGCCAAAG
Sequence 2966
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GCTTTAAGTTTTAATAATTCTGTTATTCTCAGTAACACTGAAAGTTGCCTGTGCTCTTTC
TGTCACACAATTGATTCCAATGTATTTTAAAATGTGTTTTTCTGAGTCATTTGTTGCCTT
GTTACTTTTTAAA
Sequence 2967
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Sequence 2968
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Sequence 2969
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CTCAGCTACTTGGGAGGTTGAGTGGGGAGGATCGTTTGAGCCCAGGAGATTGAGGCTTCA
GTGAG
Sequence 2970
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CTACATATACTTGGTTTTTAAGTCCAAAAATATTGGTTGGATTTCTGGTATACCCTACNT
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Sequence 2971
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CATATAACAATGTGCTTAAATAGCTGGTGGTTCTTGATAGGTCACTCAACAAGTGAGCAA
ACTGATGGATCCTGTGTTTTGTGAGCAGTGTTTATTGGCTGTGATAGAGGGTGGGGACCT
AGATGCTTTTAGGGGATCCTCCTGTTATCCATTTCTG
Sequence 2972
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGAAGAATGAGATAATTTATTTGGCAAAAT
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CTTTTAATTAAAATCCCN
Sequence 2973
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CCAGCCTTACTCCATCTTCTTTACCTAAATCAATCTACTCAGTTTTCAATTCATTCTTGG
ATTAAACTTCAAGTTCTTTAGGGGAAGCCCTTT
Sequence 2974
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GAATAAAAAATCCTACATCTCTGAATAATTACATTCATGACTCAGGGTGAATTAAAGCTT
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ACATAAAGTATAGTG

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Sequence 2975

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CTTTTCTCAAGAAGACTCAAATAAATAATTTTATTATGCCTTAAATATTACCAAGTCAGA
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TATAATTTGTCATTGGTAATTTTGTTGCAGAAATTATTGTGAGAAAATAAATTTTAAAAG
AAAATACGATTCTATGAATACATTTTATATTTTACCTTTTTCTGGCACATACTGTTGCAT
CAAACTGATTAATTAATGTAATTATGTTAAACTTCTCCAGTTAAAAAAGAGAATATACAC
TGCAAAGCTGAATGTGTATACTACTTGTTGAA

Sequence 2976

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TTTCCATGCATTCTTCCTGAGAAGTAGGTTTGATTATACAGTATCTATTTTACAGATAAA
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NGNCGAGCCTNCGGCATTGTAAAGGCTTGGCTTACCTTCCATCACCCTCAGCAGTTCTGC
TGGAAGGGAAAAATGGAAACAGGGCCCTTAATTTTTTCTCATTATTGGATTAATTGGAAG
CACTAGGCATGGTNTGCTT

Sequence 2977

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TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
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ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
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GCGTTTAGGTGTTTTATTGGATATATTGGATTTGNTTATATACCATTATTTT

Sequence 2978

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ACAATACACCTTTTCTAGGCATTTATCCCTACTATAGAGACAGAGAAAGAAAGATTGTGA
GAGGGAGACACACACATTCAGATGAGCCTTCAGGGAATTGTATGAACTTTTGAACCAGAG
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Sequence 2979

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GAATTGAGTTCTTGAAGATAAGAAATTGTTAATTTTGTCAGGTTTGTTAATGGCATGGTA
GTTACTCTAAAAACAAATTTCTGGGCGAGTGTAGTGGCTCATGCCTGCAATCCTAGTACC
TCGGCCGCGACCACCGCTAAGGGCGAATTCC

Sequence 2980

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TTTCTCAAGGGGAAAAAGAAAGCAGAGGTGTAAATGGTATCTGGCCGTTCGAAGAGCCCG
TCTGGGAGACTCTCTGCTGACCACAGCACTGTCTCTCCCCAGGGCCCAGTCCCACAGTGT
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GGGGGGAGCCTAATTCCACTACTTGGGAAGCTGAAGGCTGGAGGATTGCTTGACCCTGGG
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GANAACCCTNTCCGTAAAAAATCNNCNCNNNTCAAAAANTTTTAAAAAAAAAAAAAAAA

Sequence 2981

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GGATTTCATGCCTCAACTTGAATACACTCTCTGGTGGCTGAAACCGAGGAAGAATGTTGC
TCCAAAATATTAACGGGTGATAACTTGCTTTTCTATTTTAAAATAGAAAAATTAATTCTC
CCATTCTCTTGCATGGAAAGAACCACTCAAACGGAAATTATTTTGTATTTAGTCACTATT
TAGTTATTATTTTTTCCAAAATTAAGGCTCATGCTCAGAAGCTATTTTTCTTAATATGTT
TGAGTTTTTAAAAATTGGAAAAAATATCTCTTCCACCAAGAATTTGGCAAAAGAAAGCTA
GAATTAAACACCGCAATAATAAATTTCACAACACTATGAAAAG

Sequence 2982

CCCTTAGCGTGGTCGCGGCCGAGGTACACTNACAGCCCTGTCCTGAGCCTGTGTTAAAGC
CGGCACTCTATTTTTCTGGTGTCATGTCAGCTGCTCACATGTCTGTCCCTCACTCCATGC
CCCACATCCCCTTGTTCCAGGGTCCGGCTCGCAGTCAGCACTTTTACCATGGGAATGCAT
GCCTTAGTTTAGCCCACCTTCCCTGGGAAAAAGANCTGGATATACACACAACATACCCAT
GTCTCAATTGTCTGGTATGCAAGTGATATGACATATTTGTGTTAATAAATTTGNGNCTTA
TATGCATTTGTGTGCAGGCAGTCACTCAAACTGGGACACTTTTGATCTAAATAAATACTA
AGGNGGATCCTTGGACAATTGGCAAAGCCAGGACTGTCAGATAAATGGTCCCCTTGG

Sequence 2983

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAAACTAGTAATGCAAAGGCAGCAATGTTAG
CAAAATTTAAAGAGTTATACCGGGGTGAGTTTTACAGAATTAGTAAGACCATTTAAAAGT
AATAAATCAACGTGTTGCGATTGGTGTATTGCTGCATTTGGACTTACACCCAGTATAGCT
GACAGTATAAAAACACTATTACAACAATATTGTTTATATTTACACATTCAAAGTTTAGCA
TGTTCATGGGGAATGGTTGTGTTACTATTAGTAAGATATAAATGTGGAAAAAATAGAGAA
ACAATTGAAAAATTGCTGTCTA

Sequence 2984

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAGCGCGCCGGAAGAAAAACCAGCAA
GAAGGCGGCGGGGGAAGATGGCGGTCCTGGGGTAGAGTTTGCAAGCTTTCTGACTAGGCT
AGTCGAGCAACTATTCGGGTCATGGCGTCAAACTCAACTAAGTCTTTCCTGGCAGATGCC
GGCTATGGCGAACAGGAACTGGATGCCAACTCTGCCCTTATGGAATTGGACAAAGGCCTA
AGATCTGGCAAACTTGGTGAACAGTGTGAAGCAGTTGTTCGCTTTCCCAGACTTTTTCAG
AAGTATCCATTCCCTATTCTTATCAATTCTGCATTCCTAAAGTTAGCTGATATTTTCAGA
GTTGGAAATAATTTCCTGAGGCTATGTGTTCTTAAAGTTACCCAACAAAGTGAGAAACAT
TTGGAGAAGATTCTAAATGTGGATGAATTTGNGAAGAGAATTTTTTCTGGGATTCATAGT
AATGATCCTGTGGCAAGAGCCATCACCCTCCGGAT

Sequence 2985

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGTGGACT
CAGGGTCTTACTCTGTCACCCAGGCTGGAGTGCAGTGGTGCAATCTCAGTTTAAACCCCC
AAGTCTGTGGTATTTTGTTATAGTCCCCCTGGAAATTAATACAGGATTCATGGTCTGCCA
AAGTCTCATTCCCTGCTCANACCGACAATGGATAGTGGGATCCTTTGTGATATGTGCTCT
GTGAGTTANAAGTAGTAACTTANAGCTGTTGAGGACAATACCTTTGCACCCCATCCACTG
AATTTTGTTTTCAAAGATACAGTCTGAAACTCCCAGAGGGTGAGTGCCTTTCCAGTGTGT
CAGAGCCATTAGCGGCTGAGCAGACCGCTGAGCATGTANATTTCTAGGTCAGGGCCCTCT
CCCCAAAGAATCATACTCCCTGGTTGAACTGAACCTAAATCAGGTTTAAAACTAGACAGA
TGCCAACCAACTTAAAATTCCAAAGATATNCAAGACCTGCCCATGGC

Sequence 2986

CCCTTAGCGTGGTCGCGGCCGAGGTACCAACAGCAGTGAACCAGGGCCTANTTGTCAGCA

TABLE 1A
20/599

ACCAANACCTNTGCTGACCCANAAGCANACAGGTGACCCTTTCACCAAAACTTCAATCAT
CAGTCTTCTCTTTTCTTTTTTTGAAACANAGTCTTGCTCTGTCGCCCATGCTGGAGTGCA
GTGGCGCGATCTCNACTCACTGCAAGCTCTGCCTTCCAAGTTCACGCCATTCTCCTGCCT
CAGCCTCCCGAGTAACTGGGACTACAGGCGCCCGCCACCATGCCCGGCTAATTTTTTGTA
TTTTTCATANANACATGGTTTCACCATGTTAGCCATGATGGTCTCGATCTCCTGACCTCG
TGATCCACATGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGCGCCCG
GCTAGTTTTCTC

Sequence 2987
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAACG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTT
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT
GCGTTTAGGTGTTTTATTGNATATATTGGATTTGNTTATATACCATTATTTTTAATACAT
ACACATGCACGCTTTT

Sequence 2988
GGTACAAGAGTTGGAAAAACAGAGTTGAAAGGAAAAATGAGGATAATCTTATTTAAAAGA
TTATTGAATGCCTAAGTGCCTTTAATAACTCCACAAGGACCCTCATGTAAACAAAATTCA
GCAATAGCAACAAAACAAAGCCTCTGAAATGCTCATTGTTCCCCAGTGAGATAAGCTTTA
AAGAGCANAAATACGAAAAACAAAACCAAATNTCAAGTNAAACTTAAAAATGTTACTTTA
TGGGAGAGGACAGGCAAGGCGGCAAGAACATAGAAGCAGTGCCACCTGAAGCTGGCATGA
TAAGGTTGATTTAACTGCACTGGAAGTGACAGAATCTGAAAGAACGACTTTTCAAATGTN
AGATAAATCCATTTCAAANNATNGTTAAACTTGTGAATTCAACAGAAAAACTGTAAAACT
TTCNGNGGAGGCTGTTAAGAGCAAAATTGTTCCCTCAGAGCANAGGACTCATTGATGCCG
AAGATAGAGGAACATGGCCAACCCAATTAAAA

Sequence 2989
CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGAGAAGAACTCATGTCAATGGAAAGTCTGT
TTATCCTTAAAGCCACATTTGTAGACTAGACAGTTCCAAAATATCCCTTGGCAATCCCTT
TTGCAAAGTAATTGGAAAATGCTGTGCCAAGTGATAAAAAGCATTTCAAGTTTCTGCCTA
ATGTCTGTTATAGTTTTCAAAGCCCTGAATTGCAAAACAAGATTAAAACTAGTTCTGAAA
TAAACAACAAGTATTTACTGAAGAACAACTATGAGGCACTCTGCTGGAACTTTGGGGATT
TGAAGATGTGTAAGACTGAGCTTACAATTTAGTTGGGGAGATCAGACGTGTGCACAGCCA
AGGTTAAGCTCTAATACAGCATGAAAATATCTGAAATGTCAAAAAACACCAGCAACTGTT
TCCATCTCANGGAGTGAGGCTACTATCCTCCAAAGGCAAGTCCTAGCCCCATCAAAA

Sequence 2990
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATTAAAAAGCGTGCATG
TGTATGTATTAAAAATAATGGTATATAAACAAATACAATATATACAATAAAACACCTAAA
CGCAGAGGCTGCTGTTATCCACAATAGTAATACTAATAGTATTAATGATGTGTATGTAGA
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAAT
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGC
CATTCACTATCATATGTAAGTGTAACAATTGCACTTTTATGTTTTACATTATGTCCTGTC
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTAAATCTATATCTT
AAACATTTTAAAGGATTAGTATCACCTT

Sequence 2991
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGGACTGTCCTAGTGCGGGGAATAAAAGTG
AAATTATAGTCCTTTCTCCTGAAGAAATCAGGGTCTAGTGGAAAGGAAGGTGGGACCGGA
AGGAAGCTGGCCGGTGGAGCTTGGCCCTGTGCTAAGCATTCCTATCCACTTAACTGTGGG
TAATCGTCTGAAACTCCCTACAGACCTGGGAGTAAGCTATTGTATTGAAGGGGCTGTATG

TABLE 1A
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GAGTCAGGGAGAGAAGCCAGGCTTTANAGTCAGATGGCTCTAATCGTGCATCTCACCCTC
TCTGTGTCCCCAAGCTCTCCCTCTGTAAGATGGGGACAATGACAGCACCCACC
Sequence 2992
CCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCGTCTACATGGCATTG
GACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG
GCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTGG
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTTG
CTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTG
TCTACATACACATCAT
Sequence 2993
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTCTCCAAGTCAATGAATCCAATCTTTAA
TGGATCTGGGATGCTCTCTGACCAGGTCCTGTTATGAGTTTCCTGTGTTATAATTAAAAA
CCCCAAACTGATTAAGCATGAGAGGATACTTCCTGCTCTCAGATAAATTATTTATTATAT
TCTGTATTATCCTTGTAATTTTTCTGGATATGAATAAATAACAATGTATCTCAGAAAAAC
ACATTTTGAAAAGCCTTATAAAGTTAAAACTTTAAATGCTTTTCATCAAAATGTTATGAC
CAATAAAAATGCCATTCATGTATCTCATCACACTTTCTATACATTTTGTAGTGATATGTA
TTTATACATACTGCAGTTGGAAATAGGGAATGCTTTTTTGGTTTCCCACGGTAGGCTGCA
GGTTTTAAAAGCAGAAGTCCTGAACCTCTGAAGGCAACATAAGAAAAGTATTCATTTGAA
ACCTG
Sequence 2994
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTGGGTGTCTTACCTTGCATTAGAATATC
CTAGGCCTTTCTAATTCTTCCTCTTGAATTCCCTGTGTCACTCATCTGAGGTCATCTCTT
GGATTTAAATACATTTGGTCTGAAATTCTCAAACTGCTGAATAAAATGCCATANTAAGTC
CAACTATATGGTTTCATGTAGGGTAAAGTAACCATTGTGGAAGGATTACGATAAAACTGT
GTGACAATAAATAGAATAAAAGATGGCAAAACAATCTGTAAATTACAAAGTGTTATAAAA
ATGCATTGAATTTCTAGTGTTCTTACACTTTCATATTTCTCATTGGCACATCAATCANAC
CTTGCCTTCCTAAAGTGGGAGGAAGAAAAAGGCTGCACCTGTCTGGGGCTGAAGGTCTGG
GCAGAAACACTAGCCAAAACTTTTACTAAATCTTCATGTCACCCCCCCAAACTNATTAGG
GGCCCAAACTTATTTCATTATCTTCACTATCCCCCAGGGTTTCCCTCTCCNTATTTTTTC
ATGCCCCACCTTTCAGCACTTTTCATGGTTNCTTNGTCTTTAAAAAACCCCCAA
Sequence 2995
CCCTTCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTTTAA
GATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTGCATGGCATTGGA
CAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGC
AACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTGGAT
TTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTTGCT
TTGCTTTTGTGTGCTTTTGT
Sequence 2996
CCCTTAGCGTGGTCGCGGCCGAGGTACCATTTGGGATTATGGTTTTTAAAAGCTTGAGAA
TATTACTTATTTACTTTTGCAGCTTTCCATGCAGCTGTTTTTTTTTCTCTCTGTTTTTGA
CTTTGGANATAAAGTTACTGATTTTTATCTTTACTTTTCTCTTTATTTTGTGCCTTGGTC
TTGAAAAAGTAATAAATATTTCTTACTGAGGCCCCCTCCTGCTTTGTTCTGCCATCTAAG
GTGATTACAATGCTCAAGTCTCTTTGTTGGTTGCCCTTGACTAATGCTTTTCAGCAGCCC
CGGGCTCAGCTCCTGGTTCCCAGTATGGCACAATGACCAGGCAGATATCTCGACACAACT
CTACTACTTCTTCGACATCTTCTGGTGGATACAGACAAACTCCCTCTGTGACTGCTCAAT
TTTCTGCTCAGCCTCATGTTAATGGGAGGTCCACTTTATTCTCAAAATTCAAGTAAGCTT
GTGCTTTGCAGGCATACAGCAACAGGGGGAGCTCCTTTTGGAAGGAAATTATTTGAAACT
GGTTTTTCTTGCCAGGGGATAGACAACCAATTGAAAAACCATGAAGGNTNCAAGGGTTAT
TTTTGGGTTTTANGAAATTAAGNCCCTTGAAATCATACCNATTTTTAAANANGTAATTGN
TTTACCACCTTTTTTNTTCCCA
Sequence 2997

TABLE 1A
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CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGTTCCTTCCCTTACTTTGGGGAGTCTAGG
TTGTGAATTTGAAACAAAATCAGATTCTTTTCATCTTCCCTTTCCCCTCAAATTCCTGAG
AAAACCTCCAACCTTCTAAATTTATAGCAAATCAACTATAATTATGTGTTTCCATTTGAA
ATTCAAGCTAAAATAACATACTTTAAAAAGTGTATCTTAAAAATCATATTTCGCTTCAAA
AAAACTTGTTAAAAGTAATTTGCATCAGATCCTGGAGTCGACTTGAAGAATTCTCCTACA
TCTGACACCCAGTTAGGCCCTTTGAGAAAGAGAGAAAAGAGAATTTTTTAATGCATGTTT
GATTATGGCCATCTCTTTTCTTAGAAGGTAGAAGATAGCACCATGCCGATTCGTCGAACT
GTGAATTCTACCCGGGAAACTCC

Sequence 2998
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCATT
GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTT
GCTTTGCTTTTGTGTGCTTTTGTG

Sequence 2999
ACATCTGCACATTGTGCAGGTTAGTTACATATGTATACATGTGCCATGCTGGTGCACTGC
ACCCACTAAATCGTCATCTAGAAGTGTTTTCTAATTTTATTTGTAATTTCTTCTTTGTTC
CATTGGCTGTTGAAGAATGTGTTGTTTGGCCGAGCACAGTGGCCCACGCCTGTGATCCCA
GCACTTTGGGAGGCCGAGGCAGGTGGATCACGAGGTCAGGAGATCCCCGCGTACATCTAT
TTAAAAGTCAATACACAGGAAAAAGGTCTGGAAGAATATATACTAGAAAAGAATGGTTAC
CTCTAGGGGATGGAGTGTCAAGGTGAATTTTGGTTTATTCATACTGTCTAAATGATTGCT
TAATAACTCAGGTATTGCTTTCAAAAAGTAAGAGGAAGGGTGGGAAATACCCTGTTCTCT
CANAATTTTAAGTCCAGAGTGCTGGGGAGAAAAANATGGCAGCACTTGANCGGGACTGAA
AAAGT

Sequence 3000
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAGGAGCAGGAGGAGCAGTGGGGGAAGC
TGGTATTATTTATACCACTCTTTGTATTTTATCACTTTTTATAAGTCTGAAATTATTTCA
AAATGAAAATGTAAAAAGAACAAGGAGTTTCTCACTATTCTTTGTCCCCCTAAAAAGACC
ATCTTTTTAAAAAGATTAAGGAATTCATACAAAATAAGTAAGAATTAACAATTATAGGAA
GTTTGGGCCAAGCACAGTGGCTCATGCCTGTAATCCCAGCGCTTTGGGAAGCTGAGGTGG
GTGGATTGCTTGGGCCTAAGAGTTCAAGACTANCCCTGGTAACAGCGAGGACCCTTGTCT
CTACAAAAAATAAAAAATACTAAC

Sequence 3001
CCCTTAGCGTGGTCGCGGCCGAGGTACAGATGGGGTTTCACTGTGTTAGCCAGGATGGTC
TTGATCTCCTGACCTCGTGATCTGCCCGCCTCGGTCTCCCAAAGTGCTGCGATTACAGGC
GTGAGCCACTGTGCCCAGGCCTATTGGGGGTTATGCAGGTTCCTTTGCTTGGCCATGGTA
GATGGCTAAGTCTTTGCTTCCAAGTTCTTTTGACCATGAGACATGTAGAGCCAGGGAGGA
AAGAGAAAACCCAAACCAGGTCACTGTTACCTGTGAATAACATCTTGATCGAGTTCTGAG
A

Sequence 3002
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTTCATATTCTCCACCTTTGTTCCTTGCC
CTTTGCCTTCAAAGATATGTAGATGTTCCTTAACTCCAAAAATTATAAAAACAAACAAAA
AAACTTTACCACTGTTCATTATCAAAGTTACTATTCATTTATCCATTCAATATTTAGAGT
AGCTAACAAGACAAAACAAAATAATTGCTGCTTTCGTGGCTTATAGTGGGGAAGGGTGAT
AAACACCATGATGAAGGAGAGAAGAGTGCTATTGTGGGGGCACAAATTATGGGGATCTGA
TCCTTTTTTTTAAGGGAGGCAT

Sequence 3003
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA

TABLE 1A

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ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGTGC

Sequence 3004

CCCTTAGCGTGGTCGCGGCCGAGGTACCATGTTCTAAAGGCAATCGAGTCATAATACACT
GAAAGCAGTCCAAGAGCAGCAAGAGACTTTGCTGCAGCTGTAGATCACTGGATCGGTAAC
TCGTAGTTAAAGGAAATCCCTACCCACTCCCATCCAGCCCCTACCCCCTAATTATGGGAC
AAAATAGCCAATTCAATGAGATTTAAACAGGAAGTTCACAAGAGGAACTCTTATACCTAT
GAGGACCCATTAACCAGGGATTCCACAACCAGTAGAATATTATCTACTGGTAGCTATTTA
AGCCTTACCTGACAGGTCTCCAAGCCAGCCGCAGCAGCCACATCCCTCTCTGCGCCATAA
ACGTCTCGCCTCAGTTTCCTGAAATTCCCAACTGAGAANGGAATATAGCCAGCAGGCACT
CCCAACCCTGTTATGATTCTACAGTTCTACTGTTAGTAAATTTCCCAGGGGCATCACAAT
CTGTGTCCTTACACATGCATACACAGAGGAGCTTCCTTTTTANGGATGAGCTCCTCATTA
CAGGGC

Sequence 3005

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAGTCTATCGCCATGCTGTGTCACGTGGGCAG
GTCTTCTTGGCATTCATCTTGAACATGACCCAAATCCTGGCTCCATCTTCCCTCTTACTT
TTCCTTTGCCCCATTTTTCTTCCTTATTTTTTATGTATGTTTACCTTGCCCTGTAGGCGC
ATTTGTAAGCTGGCTCAAATCCTTTTGGGAACAAGGTGGGTTATAAATGCACACGTTCCT
ACACAGGATGTTGTTAGTCATTTCATAAGGTCTCTTGTGGAGGAGATTAGCCAATAGCTT
CTTTTGTAACCTTAGGCA

Sequence 3006

CCCTTAGCGTGGTCGTGGCCGAGGTACAAAACACATTTGGTCCTGAGATTTTTCAGAAGC
AATTTTAAGTGTAATAGGAATCCTCAGAAGGAAGAAAGTAAACATGTTCTGAGCAACTCC
TCCTCCAGGCACTACAATAAAAGAGAAGGGAACTGGACCTGGAAAGACAGACAGTCCATA
GAGAAGTGGAGAGGGAAGAGGAAGAGAGCATGCTGCTTAATGCAGGTTGACATTTCTGTT
TGTGAAGCTAATTAAATTCCAGAAGGATTAAATACTTAATACTTTACCGTCTGTATGTAT
GTATGTATTTATTTATTTATATTTTTTTGAGATGGAGTCTCACTCTGTCACCCANGCTGG
AGTGCAAAGGCCCAATCTTGGCTCACTGCAACCTCCACCTTCCAGGTTCAAGCGATTCTT
CTGACTCACCTCCAAGTAGCTGGGATTACAGGCACACACCACCATGCNGAGCTAATTTTT
TGNATTTTTANTAAAANACANGGGTTCCCCGGNTACCCGGATGGGCTCAATCTCCTGACC
TCNGGATCTGGCTGTNTCGGGCCTCCCAANTGCTTGGATANAGGCGTGAGCCCCTGGGCC
CCACTTATACCCTTNATAANTAAATATTTAATCCCCAAGNTTTAAATTTTNNTTATCCCT
TGTCGGGGTAAACCTTTCCCNAAAAAGG

Sequence 3007

CCCTTAGCGTGGTCGCGGCCGAGGTACATGATTCTACACTGAATCTGCATTTCACTCCCA
TATCTATACCAGAAGGTTATCAGTGGAAGAGAAATTCAGTTATCTTGAATGGACATGATC
TTCTCAGGAGCAGTCAGTGGTTAATTGGGACAAGAAAACACAAGTCATTATCATTGAGAA
ATCTGAAGCAAATTGAGGCAGGTTGTCACCTTTCACCAGGAAACAAATTAGCCCTGTCTT
TAAAAAGACTTCTTTCTCTCTCTGCTGACTGGGGATTCCTGTCAACTGCCAATGAAATAG
GGAGAGTGTAGATTAATGGC

Sequence 3008

CCCTTAGCGTGGTCGCGGCCGAGGTACTAACCATATGAAAATAGTTGCTACCTTGTTGGA
CAGGACAGATATACAAAGCATTTCCATTTTTACAGAAAATGTGTATGGATACCATGGAGG
TTTGAAATAAATGCTGAGTTCATTCAAACTATAGTGAAATACAGCATGTGAAAAAGTAAT
TACTTATTGACTATAATAAATGCTTCATAAAATATAATAGATGCTGATTCTGGCCAAGAT
TGACAAAATCTAATGCAGCCTACATGTCTCAGTGGTTAATACTAAGACTCTGAATAAAAT
ACAAGCAAATAAACA

Sequence 3009

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGCCAGTTTCTGGCATATTAACAGCTGAGA
TCAGATAAGTGAACAGCGATAGAGGTAGTGAGGTTTAGGATTCAGGTCTGCCACCGGGAG

TABLE 1A

24/599

CGCACCTCTGGGCTCAGGTCTCTCATTTGTAAAATGGGACATTTAGGTCAGATCAGCATT
TTCAAAAGTGTGACATGTTAGTAAATAAGATGATTTTATGTGGTTGACAGATGAATGTAT
TACCTTTAGTGGTTATATGTTTATTTTCATGGTTACTTTTATTTATAATAAATTTTGTGA
CTAGCTAAGAATCAATTATCTCTTTAAAATATATTTAAAGTTTAAAATGTGGGCCAACTT
AG

Sequence 3010

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGGCCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACCTGGCGTGCTT
TTTGCTTTGCTTTTGTGTGCTT

Sequence 3011

CCCTTCGAGCGGCCGCCCGGGCAGGTACTGAATGGAAGAGAGAGTTGGAACAGTGAACAT
ATTCTACTTTTTCAAGAATTTCTCTTTTAAAGGTATGGGAAAAAGATGGCACAAAATTCA
TTTGAGGATAGCATAGATCTAAAGGCATTTAAAACCTTGAGTCTTGAACATATTTATAGG
CACGGAAAAAATTCTACAGAAAGGAAAGATTGTAATTATAGGAGAGAGAAAAACAGTGAT
ATTTCTGAGGATATTGTGGGGAGTGGGTGCTAAAGGACCATTGGATATATCATTCTTAAA
CCAGAAAGGGGAAAGGATTGGGTACCTTCGGNCGCGACCACGCTAANGG

Sequence 3012

CCCTTTGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT
TTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGAGTGTCCGTCTACATGGCAT
TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA
TGGCAACGTGACCAATTTTCGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT
TGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACCGTCCGCTGCTTTTGTCT
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT
GCGTTTAGGTGTTTTATTGNATATATTGNATTTGGTTATATACCATTATTTTTAATACAT
ACACATGCACGCTTTTT

Sequence 3013

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATAGGGTCACCTACTCTCAAATTCTGCGGTT
CAAATTGTGGTTGGAGATGAGATGTTCTATTTCTGCATCTCTCCTGGACCATCTTAGAGC
AGTGCAAAGTTTACTGGATCTTCCAGTGCATTATTGGCCCTTGGTGTGATGACGAGAGAG
CAGGAAGGAGGTCTCCAGCTCCTTTTCTGAGTTCAGATGTTCCCTAGCCCAAGAAGACTA
ATCATGCACCTGGTTTCCTGCTCTGAAAAATAAGAAGTGATTTTGGCAGCCTTTGAATCT
GGATGGAAGGTGGT

Sequence 3014

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTAGCAGTGTCGTCTACATGGC
ATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTG
AATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTA
CTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTT
TTTGCTTTGCTTTTGT

Sequence 3015

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCATT
GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGCGTCTACTG
GATTTATGTCTATATGACAAATCTTGATACTTGCATCCACAACATTACTGGCGTGCTTTT
TGCTTTGCTTTTGTGTGCTT

Sequence 3016

TABLE 1A
25/599

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATTAAAAAGCGTGCATG
TGTATGTATTAAAAATAATGGTATATAAACAAATACAATATATACAATAAAACACCTAAA
CGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGA
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAAT
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGT
CATTCACTATCATATGTAAGTGTAACAATTGCACTTTTATGTTTTACATTATGTCCTGTC
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTAAATCTATATCTT
AAACATTTTAAAGTATTAGCATCACCTTTTAA
Sequence 3017
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATAAATTTAATCTATAATGATGTATTAGCA
ATCATAGGGAACACCATGATGGTCAGTGTTCAGACTTGATGAAGACTGAAGCATGAGAGA
GGGCCAGACAGATATTGTGGAGTCCGTGCAGCTTTCTACTAATTTCTATTTACCAATAAA
TATGCCTGGGATAATATAGGAGAATTATAGAAAGGAACAAGGAAACTAATCAAGGAGAAA
GTAGAGGGCGGTTTCCAATGAGAGAATTTCATCTGCTTCTAATCTAAAAAAAAAAGAC
Sequence 3018
CCCTTCGGCCGCCCGGGCAGGTACTATAGTTAGAGACTTGTAGTTGATTTTTTCCAAATT
GATCTGCTATTTCTTGGAGCTCTTTAATTTAAAAACATTTAATAACTTTTTTATTAGGCA
GCTAATCAGTTTCACTGAGGTAGAAGAGTTGGAAGGCATGGAAAAGTATAAAACTTTATT
TTGAATTAGTTGGATTTCCATGGTTATTTAAAAACTAGGCCCACCTATTTTCTAAGGCAC
TTTTCATTTGTAATATCACTGAAATTGAAATTCCTTCTGGTTTGTTAGAACTCTGATAGG
AAANGGCAGCCAGAAGAATAGGAAAATTTACCTTCA
Sequence 3019
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATGGGTTTATAGACATATATATATTCACA
CATATATGAATATGTATACATATATATTTTTTAAGCTCTTATCTAAAGTGGTTTTTAAGT
GATGTGAAGTTTAACCTCAGCATCAAAGTATATTCTAAAATATAAAACAACTATTTTTTA
TCATTCTACATTTTTTATTTACATCAACTGTATCACCCATTACATATTTGATAAAGAGGT
TATGCCTCAGTAATTCTGAAGCTGAAGGCTTAAAATCTCAGCCCAGTGACTCTGGAGAAT
CACGTGTTAGTTAAAGGGAAAGCGGCGGCCTCACATGCTGCGTAAGTTTCATTCTCAGGC
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CCTCAATGGCAGTCATGTTAGTTAACCCCCT
Sequence 3020
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGAAGACACGCTTGAAAGAGTCCCTAATGA
CACTGAGCAACAATTCCCCATGTTTGTTACACTGGAAGTTGTTCTATCTACCTTATGCGC
CTGTCTTTAATTCCTGGCATCTCACAAGTCTGAAAGACAGTTATTATCATTTATACAGGA
AGAAACTAGGGCTCCTATAGGGGAAATGACTTGTTAATATCATAAGACTAGCAAAGCTTA
CTTACTCAATTCCTAATGCTCTTCAGAGCATATTATATCTGAACTCTATATTAAATTTGT
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GTNGGGTCATTTGNAA
Sequence 3021
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGGATTAGGTTATGCCTGGTCACCACCAGT
CCTAAATGTGTCTGTGGGGGACACAGTGGCATGGCATTGGCAAACACATCCGTTTCTTAG
AGGGATAGGATATAGGATTTTTTCTGTCTCCAGTCCTGGAAGTGTAATTTATGATGGCAA
AGGATTCACAAGTGGAAGACAAAAATCTACATCAGGTATGTTTCTGCTTATTGGGTTTTG
CATCATGTCACTTTTTCCTAAATGTAATAAAATGACATTTTGTGTAGATTTAATACAGTA
TTTTTACATAAATAATATACACAAATGCGTAAGGTATTTGGCATTTTATTGCTGCAGTAA
AAATGTTACTAATGAGTGTAAGCAAGTTATTTTATACATATTCAAGTGTGTTCTGATATT
AGAAATATCTTATATTGATTCTGGTGATAATCAACCAATTGAAAAACA
Sequence 3022
CCCTTTCNAGCGGCCGCCCGGGCAGGTACGCGGGCAGTCAATCGGAAACTATTGTTGACT
CTCCTTTAAAAATATATCCAAAATATTAAAAGACTGACAGCCTCTAAGACTACCACTTCA

TABLE 1A

GTCCAAGCCACCGTAATTGCTGGCTATTGTAACAGCTGACATCTTGGGCTGGAGGTGTGG
TGAGGGTGGTTAACAGAATCCCAATACAAACTTCAGATCAATTAAATGAG

Sequence 3023

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGCATGAAGCACTTCACCTCAAGGAGGGTT
CTCCTTGTGGGCTAGGGCTTCCCAGAACCCTGAGGTGGAGGTGGACTGGAGCTGGACCTT
GGGAGGAAACTCTAGGTGTAACAGCACAGGAGGAGACCAAGCTGGAGTTTTGGAGAGAGN
NATGGTTCAGGAGAGCAGGGCAAGATAGGTAATATAGAAAGTCAATGGCTGGAAACAAAG
GGGCAAAAGAGGAGCTAACCTTCCTGAATTCTCAACTATATATTAGCTTTTTTAATGGCC
ACAATTAACTCCATAATGGAGGCCATGTGTGTTAACAAGANAATGCATGGCTGGAAAAAC
AGAATCCAGTCTGGGTTGCTTAAGCCAAAGAAGGATATCTGGCTCGGTGTTGTGGCTCAT
GCCTCTAATCCCAGCACTTTGG

Sequence 3024

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCACAACGTGCAGGTTTGTTACATATGTA
TACATGTGCCACCATGTTGGCGATAGCACAGTATTATTTAGTGTTCAATTACATTCTTCA
AATTCCCCTCTTTCTTGTCTCTCCAAATATTTTCAAGTCTCTTACAGAAAAAAATGTGCC
TTGTTTTTCTCCCAGATGCCTGTCTTTAGCACTTAGCATGGTGCTGAGGGTATGTGAAGT
TGATTGGTTTGTGAGTGGGGAAAAAGGAGATTTCTAAAGCACTAGAAAAGATCCGCCTCT
CCA

Sequence 3025

GTCAGCCCGCGGGAACGACCGAACCCCCTCAGAGCGGGAAGAGGGGCGCGGGACGGACGG
GCGGGGGACGGCGGGGGCAGAACCGGGAAGGCCACCCGTCGGAACCCGGCGACACACCCG
TACCGAGACGCCGCGAGGACGACACGCTCCCAACACGAGGCCCACGCCGCGGACCATACC
GGGC

Sequence 3026

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGAGGCTGA
GTCTCTCTCTGTCATCCAGGCTGGAGTGCAGTTGTATGATCTTGGTTCACTGCAATCTCC
TCCTCCTGGGTTCAAGTGATTCTTCTGCCTCAGCCTCCCAAGTAGCTGGGATCACAGGCG
GCCGCTACCACATGCGGCTAATTTTTGTATTTTTAGGAGAGACAGGGTTTTACTATATTG
GCCAGGCTGGTCTCAAACTCCTCAAACCCCAAGTGATCCTCCTGCCTCAGCCTCCCAAAG
TGCCAAGGATTAAGGCGTGCGTGAGCCACTGTGCCTGGCCTAGGATAAATTTATTAGTAT
CAGGAATCCTTATGCTTCTTTTGAATGATTATTTTCTCTTAATGTTAAAGTATAACTTTT
GGGTATACATTTCATATGTTAGCTCCATTCCAGGCTTCATTTTGTGTCTCAATTCCCAAT
CCTTAATTTTCGTTTTACTGAGGTCTTTTTTTTTTTTAAGTT

Sequence 3027

CAGGTGTACAAGCTAGCTTGAGTCGACCCACGCGTCCGGGTGCACCTGTGGCATGCCTGA
GAGGATTACCTTGATCACATTATTTAAGGTAGGAAGCCTGCCCACTATGAGTAGCATCAT
TCCCTAAGATGAAGATGAGATCTTGTATAAAAAGGAAAAAGGTGAGACATAAGAGAGAGT
GGGAGTGAGATCAGATGAATTAGAAAAATAAGGAGAAACTGGACTGAGCAACCAGTATTC
GTTGCTGTGAAAATTCTTTATGTACCT

Sequence 3028

CGTCCGGTNAAAAGTCAGATATATTATCAAGGAGATCTGGATATTGTAAAACCCGATTAG
AAATTGGGTTTCCCCCTGTTTTGGAGCGATACACGTCAATAGTGACCTTGGTAAAACCAC
ATTTGGTAAAGGCCTCTTGTACTGATGGGAAACTTTTCAATCATCTGGAGACTGTTTGGC
GATTCAGCCCAGGTCTTCCTGGCTATCCAAGAACATGTACCTTGGATTTTTCAATTTCTT
TTGAATTCCGCTCCCTTCTGCACTCTCAGCTCGCTACACTGTTCTTTGATGAAGTTGTGA
AACAAATGGTAGCGGCCTTTGAAAGAAGAGCTTGTAAACTGTATGGTCCAGAGACAAACA
TTCCTCGGGAATTAATGCTTCATGAAATTCACCACACCTGAGAGGAAAACGAGAGCTGCC
TCCATCCATCTTGACTAGTTTGTTCACTTTTAAGAAGCCATTTCACCAGCTATTGAGAAG
TCAGACAGCATTTGTTAAACCTGCCTTGACTCCAAGCCTGCTCCATTGAAAATTTATACA
TTGAATATGGACTCACTTGTACATAGAATCATTTCTTCAATCAAAGTGTAACTCTAAGTA
ACCGTGTACATTTGCANGCTCTGCCTGCCTTTGTA

TABLE 1A
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Sequence 3029
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCTTTTGTTCAATCACAGTATCTGGGTGTAA
TAGACAGTAGCTATTTATTTAATTAGTCTATATTTTTATCTTCAGTGGGCTTTAAATGAC
TTGTTTATTAAATAAATTATAAATTAATAAGTGAATGAGTTATAAAATCCCAAAAGTAAT
CTTATTTTATGGGGTCAGACTTTGGAAAGGAGAGCCTCTTCCCTGAAATCTTGAATACAT
GGCATTTTTAATGCCAGGACACAATACACAAATCTGTATATTTTTGTATAATATCTGATT
TCATTTACTGTATAAGAAAGACTTGGATAATATTTTTCAATTTTTAATTTATTTGTTATT
TTTTTGGGAACAGGGTCTCACTCTGCTGCCCAGGCTGAAGTGCAGTGGTGTGATCTTGGC
TCACTGCAGCCTTGATCTCGTAGACTCAAGCAATCCTNCTACCTCAGCCTNCCAAGTAAC
TGGGACCACAGGTGCACACCACCATCCCCAGCTGATTTTT
Sequence 3030
AGGTACAAGCTAGCTTGAGTCGACCCACGCGTCCGATTTAATGTCTACACTGTAGCTGTC
ACAGACACACCAGAAGAGGGCATCAGATCCCATTACAGATGGTTGTGAGCCACCATATGG
TTGCTGGGAATAGAACTTACGTCCTCTGGAAGAGCAAGAAGCCAGTGCTCTTAACCATTG
AGCCATCTCTCCAGCCCCAGCCTGGGGTTGGTTGGCATTTCTATGGGACATCTTTGGCCA
ACAACTCAGCTGAATGCACTACAGTCTCTGTACCTGCCCGG
Sequence 3031
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ATAGTGAGCCCAGGAGTCCCGGTCCAGCAGCTAGTATTAAATTCTCTGTTGCTAGCTTGG
ACCTCTCTCGATATCTAGGAATTGTCTGCAGTGTGCGGTGGCACAGTAACAACCATTTGT
TTCTCAACAAGAATCTGATAATGTTGCTTGAACCTCCTGAACCAGTGCTGCATGCTCTGC
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TCCCCAGCTCCCTGTGAGCTGGGTT
Sequence 3032
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TGGACAGGACATAATGTAAAACATAAAAGTGTAATTGTTACACTTACATATGATAGTGAA
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TGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTG
TGTCTACATACACATCATTAATACTATTGGNATTACTATTGGGGATAACAGCACCTCTGC
GTTTAGGGGNTNTATTGGATATATTGGATTTGGNNATATACCATTATT
Sequence 3033
CCCTTAGCGTGGTCGCGGCCGAGGCACCCCCAAATAAGCCTCAGTTCCCATATTTAAACT
TTTTTCTCATAGGAAAGCTACAGGAATTTTAAGATATCACATGGTTACATTTGCTTTTCT
TCCAGATGGAGCTAAATTGCTATATGATACAGGGTTTATTTTATATTTCTCATATTAAAG
ATGAAAAAGTGAAAATTGAGTAGTTGACTCAAAATTATATGTATATATATATATATATGT
TAACAGTTGAATACAAACAAGATTACAAGCAGTGAAACATTCAAATAGGTTTTTGGCAAC
TCCAAATATTTTGTGTTTCACAA
Sequence 3034
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATCTTTTATATGCTCATATGCTCCTGTAG
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TAAAATAATTGTGTGTCTGAGAGAGACTAAAACTCATGCCCTACTTCTCATGATTTCTCT
TTCTCTTTTGTTTCCCTTTCACAGACAGAAGAATTATAGCCTCAGTATTTATGTATATTT
TTGAAAGAGTGAAGTGGGGACTGAGAAGGTATATCTACATGCTATGCCTTTAGATAGCAT
TCTGTTTCAAATCTCCTTTTCTCAT
Sequence 3035
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TTGGCTCTCTCAAGAATTTGCTCTCAATATAGGAGTGGTAAATCTGTTGGTGATATAAAC
ACAGGGAAAAAACAGGGAGAATCAAAGACAGATTAATCATTCAACAAAGACTTACTATCT

TABLE 1A

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ACCAGGAGCCTGACAGTGTATCAGGTAGTGCCTCATGCACTGGACCAACAGTGGGAAATA
AGATGAGGGTAATCCTTGTCCTCACAGAACCTCCATTCTTAGAGGAAAGAAGGAAATTAA
ACATGAAATTCCACTGAGATGAATTATGAAAGGGGAAGCAGATGGTCCTGTCATAGGGC

Sequence 3036

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATCACCCTGCTGAGGGACATCCAGGACAAGG
TCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTAGTCACCA
ACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACC
CCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGG
GCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAAC
CAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACCAT
ATTCCCAGGACAAAAGCCCAGCCAGGCACCACCAATTACC

Sequence 3037

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAGTGTCGTCTACATGGCATTGGACAGGACA
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CCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTGGATTTATGTC
TATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTTGCTTTGCTTT
TGTGTGCCTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTGTCTACATAC
ACATCATTAATACTAT

Sequence 3038

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAATAAATACTTTCCTAAATACTTACATTAAA
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CTTAGTGTAAGCTTAGCACAAGTCTAGGAAAGGGTTTAGCATTGAAGTCTATTTAGGGAG
ACAAAGTCACAGGCAACATATTTAAATAATGTTACCAAACCCAATCCTATCTGCCAAAAT
GCTGGGAGGAGATGGTGAGTGCCACAAAGGTTCAGAAAGGAAACTGACTTCAGAAAGTGG
TATGAGGTGTTACATTTTG

Sequence 3039

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ATCCGATGCTGTCAGAGGCCCACCTACATCTCCCCCTACACTCAGCATTTCAGTGCATAC
TGATAGAATTGTGCTATCACCTGCAAATACCTCTTTAGGGCACGCCAGAAGTGTGCAGGA
GATAACATATCTGGCTGAAACTTTCAATCCCTGACAGAGGGGATTTGGGATACAAATACT
TCGACTTTCTCACCCACTGGTGGGGATAACCCTGAGGAATGTTCTTCAGGGTTCCACAGG
ACTCCTCTGAGGGACTTGTAACAGTTCCCCCCAAGAGTAACCTGTTCAGTGCTGTGCCTC
TCTTGGCTTTCTTTCATGCCTCTATTCTCAATTCCAGCTCTACTCCTGAGTTTCCTTGCT
CACTTTCCAGGAACAGTTTGAATTCAAATTCTTCTCTCAGGCTCTGCTTTTGAGGGAAAT
CAGTCTAAGACAATC

Sequence 3040

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ACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAGC
AAAAAGCACGCCAATAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAATC
CAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGCC
ATTCACTATCATATGTAAGTGTAACAATTGCACTTTTATG

Sequence 3041

CCCTTAGCGTGGTCGCGGCCGAGGTACACCAATGCCAAAAATTTTGTTAGGGAAACATTT
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GGTCTTAGAGAGAAGGTTTTTCCTACCTGATTATCCAGTTGTTTTGGGGATGGCAGTTCA
CACTGCTTGGAGCAGAGTCTAATTTCCCGAAGATTAATAATATTAAAGAAAGTTAAATGA
AGCAAACAGCATGCCACACTGTGCAGAGCCCCAGTCAGAACCACACTGCCCAATTCCCTT
CTGCTATTGGGAAGATAATTACTGAATCTTTGTTCCTGTGAAGTAAATGAATTTTGAATC

TABLE 1A
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CTCTGTATGTTTAATTATCCAAAATTGAACCTTTGTT
Sequence 3042
CCCTTCGAGCGGCCGCCCGGGCAGGACATTTAAAAGGTGATGCTAATACTTTAAAATGTT
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCATT
GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT
GGCAACGTGACCAATTTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT
GCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGT
GTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGC
GTTTAGGTGTTTTATTGTATATATTGGATTTGTTTATATACCATTATTTTTA
Sequence 3043
ACCTGAAACCTGTAACTTTACATGAGTAGAAATCCGAAATGTTATAAGGCAATTGTTACA
GCAAGAAAGGAAAAGACTAGTTATGTGATGTGCTCACATCCAGAAATCTAATAGCAGATG
ACTCACCAATCATAATAGAGCATGTCAGTTAAAGNNCTCCGTGACTTCAGTCCAGACAGG
ATCAAGTCCCCACTCTACTCCTGTCCAGTGTCTGAATTTANACAAATGACTTATCCTCTC
GATGTTTAAGTTCTCATCCTGATAATGGCAGCACCTACCTCACAGATTTGTGAAGAATAG
AAAGTTACTACATGGCTGCTCATCACAACAGTGATGAATACATTGCAGGGACACTTTAAC
TGGTGTACC
Sequence 3044
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTA
CTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTT
TTTGCTTTGCTTTTGTGTGCTTT
Sequence 3045
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATGGGCCTACGATAATGACATAGTAGACGA
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TCTAAAAAGTAATTCACAGGCAAAAATTGTAAAGGATTGTGCAACAATGTGTAGACATTA
TAAACGAGCAGAAAAAAAACAAATGAGTATGAGTCAATGGATAAAATATAGATGTGATAG
GGTAGATGATGGAGGTGATTGGAAGCAAATTGTTATGTTTTTAAGGTATCAAGGTGTAGA
GTTTATGTCATTTTTAA
Sequence 3046
CCCTTGAGCGGCCGCCCGGGCAGGTACCCTCTACAGAAAAGCCAGCTGAATGTAAAACTC
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CAGCAGGAAACTTAGCCTAATAAAGTCATTCCATTCATAACTGGAACTCTAATTCTAAAA
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TCC
Sequence 3047
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ACATGATCGCTACACGCAATTTCTGCCTTTTCTTTGCATCATAGGATAAAGGATGTTTTT
ATGTTGCCTAATTTGACTTGAAGACTGGTGGCTTTGATGACTTTTAAAAATATTAAATAA
AACTTTATTTAC
Sequence 3048
CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAGCAACAGTTACTGCGACGTGAGCAGCAA

TABLE 1A

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CGAAGTATCCTCTCCTGAAACTATTAGGCAGCACTTGGCCAACCACACCGCCGCGACCCA
TACCAAAGCCGTCGCCTTGGGCACCGAAGAAACACAGACGACTATCCAGCGACCAAGATC
AGAGCCAGACACCGGAAACCCCTGCCACACCACTAAGTTGTTGCACAGAGACTCAGTGGA
CAGTGCTCCAATCCTCACTGNATTTAACAGCTCACACAAAGGACGGATTAACTGTAATAG
TAACACTACACCCATAGTACCTGC

Sequence 3049

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCATAGTTAGCTGTTTATTGCTTTCCTG
CTCTTATTCTCAGTCCCCAGGACCAAATGTTGACCACTACCTTCCCCCACATATAATTAG
GTTATTTACCGAACGCCATGCAGGTGGCTGTTAAAAGGAAGATATATACTTACCTTATAA
ACTCAACTTTTCCCTGTTGTCTTTCTGTCTCACCCCTACCTCCATGCTTTAAATTAACTT
TTCAGGCTTAGGCCTTATCTCTCAGTAGAGCCATATAAGGTATGTGTAAAAGCAGGAAAA
TGTTTCCTGGGGATGAAGCTT

Sequence 3050

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGACTGTCCTAACAAAAAACAAAATGAAGG
CAGAAGTAGATTTTTAATTGGCTGTTTCATCTTTCATAAAAGCTAAGAACATAGTAGCAG
AATGTAGCTTTCTGGAGGTGACGTGTAGAGGGGCCTGAGCTGAGGTCCAAGTATTTNNCT
TGCTCAAAGAGTAGATTCAGAATTCCCAGTGAGAGGGGAGGAGGGAGAATGTTCCTTAAA
CTGTTTTCCTAAACATCTTTAAAAACAAACAAACAAACATGGTTTTTAATAGGAGCTCAA
CTGCAAATGCTAACAGGTAGTATTTTCTGTTAAGGTCCTGATGCATGCAAATGTATTGAG
AAAGATTATACTAAATATTTTTCTCTTATTCAACCACAGGTTTTCAGAATATTGGATTTT
ATAGAACAAAATTTCCAAAAAGAATTTTGAGGGCTCCATGGATTTGTCCACTTTTTATTG
TCAAGTGAAAACAATTTTTTTT

Sequence 3051

CCCTTTNGAGCGGCCGCCCGGGCAGGTACCCTAGAACTTAAAGTATGATAATAAAAAATA
AATAAATAATTTTAAAAAATAGATTTAAAGAAATCTCTACAATTCTTTAAAGAATACATT
TAATTTTGACATGTTAGAATTATATTTGATTGAATTTAGTTACTGTAAATATTAGATTAA
AATATTTTTGTTTTATTCTTGTTTTCTTTTTCCTAGTCCTCCTGGTAGAAACAAAGTTTG
AGTATGATACACAATCTGGTTAGGTCTCAGAACAACCATTATGATGTCGGATGAGCCATT
CATTAATAATAATTGAAACAATAATACANATAAAGCTATCCTTTATAGGAGCACTTATTT
ATATGCAAAGTGCTGTTATAAAGATGGATATATATTTATTTCTCATTAAATCATTAAGAA
AAAGGTTACTATTATTATTTCCCTTTTAAAGATGAAAAAAGT

Sequence 3052

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTGTATACTGCAGTGTCGTCTACATGGCAT
TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTT
TGCTTTGCTTTTGTGTGCCTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTG
TGTCTACATACACATCATTA

Sequence 3053

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTTGCTCTCCTTTTTAACTTTGGGTTT
TCTAAGACTAGAAACATGAAAGTGCTGAAGATGGGCATGAAAAATAATGGAGAGGAAAAC
CATGGGGATAGTGAAGATAATGAAATAAGTTTGGGCCCTAATGAGTTTGGGGTGGTGACA
TGAAGATTTAGTAAAAGTTTTGCTAGTGTTCTGCCCAGACCCTCAGCCCAGACAGGTGCA
GCCTTTTTTCTTCCTCCCACTTTAGGAAGGCAAGGTCTGATTGATGTGCCAATGAGAAATA
TGAAAGTGTAAGAACACTAGAAATTCAATGCATTTTTATAACACTTTGTAATTTACAGAT
TGTTTTGCCATCTTTTATTCTATTTATTGNCACACAGTTTTATCGTAATCCTTCCCAATG
GT

Sequence 3054

CCCTTAGCGTGGTCGCGGCCGAGGTACATGCTAGTTTATGTTTTAGGAGTTTAGTTTCTA
TTTCTCTGTTTAGCTAATTCTCTATCTTTTGGCCACTCCTTTTTTATTCCCCTCAAACAG
TCGCTTTCTCTTCCCATCTCTATAGCAACTTGTAATATACTATAGGAATAATTATGNNCA

TABLE 1A

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TGCAACAATGCAACAATTTAATATATAAGTGCATTACATTTCTTATTTTTATTTTTCTTA
AAAAAAATTAGCCGGGTATGGTGGTCTGTGTAGAGATGGGGTTTCTCCATGTTGCCCAGG
CCAGTTTTGAACTCCTGGACTCTAGCAATCCACCCACTTTAGCCTCTCAAAGTGCTGGGA
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AGTCCAAGGGATTTATCAATGATACGCATCCATCTTCCTAAGGGGA

Sequence 3055

TNGAGCGGCCCGCCCGGGCAGGTACTTAAAGTTGGTTGTTTTTTAATGGGGATGTGGAAT
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ATATTGCAAAGGCACTGATGCCCCTTCTCACAAAATATTTCATGCTTCAGTATTGGCCTA
AAGTTGACTATCTTTATATAAATTAAAATCTTCTCATGTTTTAGTGGTGTTTTAGAAGAT
CTTGACATGTTACTTTTTGAATTAAAGTGAAACGCATAGCATATGGACTCAACAAA

Sequence 3056

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGCCAGGCGGAAGCCCGGCTCCGGGCCA
GCATCCGAGAGCCCNGACTGGANGAGTTGAGAAGAGGAGGAAGAATAATGGGAGGAGA

Sequence 3057

CCCTTGGCCGCCCGGGCAGGTACGCGGGGGAGTATCTTGCAGCCAGCGTGGACTCGAGGA
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CATGGGCTCTGATTTAATGAAGGACTGGCCTCACCAGGCAGCAATTGCTGGGTTCTGCCT
GAGTTCGTGAATGCTGAAGATGGCGGCCCAATTGATCGCAGCTTCCAGAAAGAAGGGATC
CTTTCTGAATGGGATGGGCAGTGAACTTCACACCTACCCTTGGCAGGCTGGAGAAACTGA
CCAAGAGTCTAGAAGGAAGCTAATGTGCCTCAAT

Sequence 3058

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCACT
GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT
GCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGT
GTCTACATACACATCATTAATACTATTGGTATTACTATTGNGGATAACAGCAGCCTCTGC
GTTTAGGGGNTTTATTGGATATATTGGATTTGGNNATATACCATTA

Sequence 3059

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTCAAATACAACTCAGGCACTTCAGATGGCTT
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TTATACATCCCTGCAAAATAATTTGAGGGCAGCTTTGAATGCTGTAAGTGAGTTGTGATG
CCATCTATATTAATCCTAAAACTTATCTTCAAATTGATTCCCAAAGTCCAACACACTTTT
TATTTAATAAATATTTACAGGCCAGGCACGGTGGCTCAAGCCTGCAATCCCAGCACTTTG
GGAGGCCAAGGCAGGCGGATCACAAGATCAGGANATTTGAGAACATCCT

Sequence 3060

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTAAGGAACTCTTAATGGAATAGGCTTTT
GGGTTTTTCTAGTTTGCAGGATAGATGAAAAACATGGCTGCTGTATTTGTTGGCTTTCCT
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TTTTCTTCATTCTAGGATCCAGGCTTTCGTGAGTAAATACAGAAAGATTTTTGTAATATA
TCAACTGTTTAAAGTTT

Sequence 3061

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGCTGACGTTTTTCTTCAGAAAAAAACTAA
TTTTATGGTAAAATTCTTTCCAAATTTATTTTTCTGTTTTATTCCTTCTTTTCCAAAATT
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ACGTTTATAATCTCTTAATATTATTAATTCCATAGACTATTAGCCATAAAAATTAAATGT
TGACATTCTACCCTATTCATAAAGTAAACAGCAAAAGAAATTTAAATTATTAGTTTGTTG
TTGTTAGAGAACTATCTTTGTTTTAATGCCTCTCATTTTTAGGAGAATAAAACCTGACCT

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TAAAATCACCTTTGTAGAAATGGTGGCTAATAGCTTATTCTGTTAGCCATGAGGAAATCT
Sequence 3062
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCACAGCCAGGCAGAGGAGTCTGACAGACCC
AAGGATTAGAAGCCGTGTGGTTGCCCCTTCCCAAGAATAACCCTTGCTTGGGTGTCTGAG
ACTGCAAGTATAATCCTGCATCAGAGGAGAGAGAGCAGGGAGCTGGGGCCAGGGCTTGTG
GCTGTAGACACAAGTGGAAGAAACCCCAGATCTCTTTTCTTTTCTAGGGCACTTCTTGCT
ATTGTAATTTGAAAATGTATTATTTGAATAATGAGGGATGTCTTTCTCCTGCAGGACTGG
TAGCTCCTTGGAGGAAGGGCCTACTGGTCTTGCATCTGTCTCCCTACCCCAAGGCCAGGC
ACATATGGGAACTATTTGTTGGGTGTGTGTAGTTTCAAGTTCTGCCTCTACCCCTGCCT
Sequence 3063
CCCTTAGCGTGGTCGCGGCCGAGGTACAAACCTGGCCGTCTAATGCTGTTAATAGTGCAG
CATTTTAGGTCCTCTTTACCCAGGACTGCCTGTTCAACAATTAGGGATTAATTGCTTCCC
GGATTATCCAAATCCAAAGTGTCTTTAACCCAGCTACCTATGGGTCACTGGCTCATTAAC
ATGCACTTCCTCAGACTTCTCACTTGAACAGCTAAAGTCAAGCTGGAACTCATTTTCTTT
TTACTGATCAGAGAAAAATAAATCTACAGTTTGGAATTTTTCTTAAATTAGAGTTATTCT
AATCAACAGAAT
Sequence 3064
CCCTTAGCGTGGTCGCGGCCGAGGTACAGATTGAGGTTTGTTTATCCTTTTTAATTCCAG
TTTGTTCTTGGCTTTCTTAGTTCTGAAAATTGAAATCTGCCTTCATTTTCACTGATGCCT
GTGTTGTAATGTGTCAGTAAACTGGGTATTCTTCCAAGCAGTTGGTTGATTCCAGGCTTC
TGCATATCTTTGTGCTGTTCTGGAATTTGTTTTCTGTCCATCACCGCATTTACCTGCCCA
TACTCTGAGGCTAACATATCCAGAAACTTTTAAACTTAACTTCCATTTTTCAGAACAGCC
ATCTGCTTTAGAATAAATGATTTCCGTTTATCCAGAAAAAAGTAACTAGGTCTTAAAGAC
TTCGTGTATTCGCCGTTCTCACATGTGGCAAAATATGGNTNGGTTTTTCTTTTTT
Sequence 3065
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTAGCACTGGTTTTCAAGCTGAAAAGTAAGTA
TAAGTCAGCAATAAATAGTTGCCATTTATGAATACACAGGACAAAGAAAATTGAGCACCT
AGTGGCTGATGTTTGCAAAATATTAAATAACTTAAGTTCATTGAATACAATTAGAGTCAA
ATTAATGAAGCTTAGAGATCTAGTGTTATTTAAACTACTAGTAGTGGGCCAAGTGTTGCC
ATTAACATTTTTTTAATGATGAAATAGAATAGTAAAAATATGTTTATTTTACCTAATAGG
TTCATTCTAGCTTTAAAAAAAGTGTTGTTTCATGAAGCTTTTGTGTATTTTGCATATATA
GATCCCCAGTGTAAACTGTATTTGTTACTTTGGCTCATAGCCAAAAACTCTTGAAAGCCA
CTAATCTAGCCCAGTGCCTTCATTTCATAGGGTGGCAAAATTAAACCTATGGGTCATCTG
ATTTGCCAAAATTTCCTCAGGGAGNTTAGTGATAAAATNCCTTGGGGGCNTTCANAACTC
CAAGGCCAGANGATTTTTTA
Sequence 3066
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGAGGTTACTTCAAGCAAACAGTTCTGAGCT
GTCAGGGTATTTCAGCCACCTCCTGACAGGCAGAAGGCCCTCAGAGGTCTGCCATCTTGC
CTCGCCTAGCCGCTCGCAGGAAGAAATCTCCCTTCTTTTGCCTTGCAGCTGGTGTTCACC
TCTCTGCCTTAAGTATTCATGCAAGCCTTCAAAGTCTCCTTCCATTCTCTATTTAGCCAA
GCACTTTGGGGTTGAAAGTTGAAAATAGCCAAAAACCCAGCTCAAACTAGATTAAGGATG
CTCACGGGGAATGCAACAGAATGGACAAGGTTAGAATGGAGGCTTCCCCGAAAATTAAGC
TCCAGAAGTTTAGTGCTTTCTTGGGGCTACTCTCTATTAAAAATATATATATTTTAAA
Sequence 3067
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAGGTGCCTCATGAAAATTAGATTATTTTG
GATGTATTTTCAGGTAGACACAAGCCCATTCTTTAAATCAGTTTTTGTTCTTAAAGTAGA
ACTATTTTTTCAGTTAATATAAAAAAAAAAANAANCCCNTTTTNGTNGNGTNNAAATCTN
GGGTTTNCCTNAATGTNTTTTNGGCTNTNAAGGAAGGTNGAATTCCCGACCTTTTTTNAG
NCCCCNGAAATCCATCATNTTTNGCCTGCCCCTGTANCAAATNANCGGCTGATNCTGGGG
CTTNTAANANCCCANNANGCTNTCANCCTGANTTTTTNTTTCNCAGNCANAAAAAGTCNT
GAGGGNGGATGANATTAAAAAAAAAAAAAA

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Sequence 3068
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTTATCTGTGTTTTCGGCTAACAAGC
GGTGGACGCCTCCTCGAAGCATCCGCTTCACTGCAGAAGAAGGGGACTTGGGGTTCACCT
TGAGAGGGAACGCCCCCGTTCAGGTTCACTTCCTGGATCCTTACTGCTCTGCCTCGGTGG
CAGGAGCCCGGGAAGGAGATTATATTGTCTCCATTCAGCTTGTGGATTGTAAGTGGCTGA
CCGCTGAGTGAGGTTATGAAGCTGCTGAAGAGCTTTGGCGAGGACCAAGATCG
Sequence 3069
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTNTACTGCAGNGTCGTNTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCANTTGTTNCACTTACATATNATAGTGA
ATGGCANCGTGACCAATTTTTGTCTCANGTTAAAATACCAAAANCTATTACAGNGTCTAC
TGGATTTATGTCTNTATNACAAATCTTGATACTGCATCCACAACATTACTGGCGTNCTTT
TTGCTTTGCTTT
Sequence 3070
CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGAAGACAAAGATGGATAAAACAGAGTCCTT
GATCCAGAGAGCAGAGTCTAGAGTTAGGCAGGCACACAAAGAAATGATAATGAGATAATG
TGATATGTGCTATAATAGAGGTATGTTCCAAGGGCAACGGGATAAAGCAAATGATTCTGT
CTGGTATAAAAGGAGAGGATCTCAAAGACAGCATCATGTTAACCAGCTCTTAAGGGATAG
GCTCACCTACAGAGATATGAAGGAAGGGAACTCTAAACAGAGGGAATGGTATCAATAAAG
AGATGAAGGCATCAAGTGTAGTGAGCAGAAAGAAATCTGGGTATCAGGAATAAAGATATC
TAAGCTGAGCTGGCATATGTAGACAAGAGTAGGAACGTTCATGTGGTGTAATGCTAGCCC
CATGGGCTAATCAGTGTTTGGGGTCACAAGGATGAAGATTAAGAGTGTTTCATGTCAACC
AAAATTTTTTGGNATCATTGGTAAGANAAAGAAGCATTATTTTTNTACCAAGNANAACCT
TGAAGGTGCTNTTCACCCNTTTAGGTAAGGGGAGTANNTTTTTAAATTTTAAACCANGNC
TTTAAATCTTTCCTTTTGGGGAAATTTTCNCCCNTTNGTTTTTNCCTTTTACCATTNTGC
CAACATTGAGGTGCNNGGGACTTTTT
Sequence 3071
CCCTTAGCGTGGNCNCGGCCGANGTNCATGAGCACCCTGGAGATACTAAAACTNTTATTC
TGACTAAATGTNTNTCAANAGCAGCCTCCAGATTTTTCTGCATTCTTGCTACCTTGTTAA
CTTGCAGTGCCTTACAGTTTACCATTGGCTGTCCTGAAATACCCTNTTAGAACTAANATA
ATACAATTNGAAATCATGGGTAGAAATCATGAAATCATGGGTAGAAATAANGANGGTGGA
AGAAGCAGCTAGGTTTCCAAAGCAGCAAAATGTCAGATACATTCTGAAGCAGCCAGTTTC
CCCAGTGTCCCCACCCCACCCCGTATGGGGCTCACATTCTATTTTTCTCTTTGTCCTTTT
TTT
Sequence 3072
CGGGCAGGTGCTAGCTTGAGTCGACCCACGCGTCCGCTCTGATTTTATTCTGCCTCTAAG
AGGATATTCAGCACCCAGAGCACCCTATTCCACTCTGTTTTACTTTTCCATGAAGAAGAG
AGGGAGGGTCATAAAANGATAACTAAAAGTAGACAGTAAATGAAAATGTTGAGGGGCATT
CTTGTGTGTCTACATCCCATGGGTCCTAGCTCTACTGTCTACAAAGGACAGCAAACGAAG
G
Sequence 3073
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGNCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGGGGATAACANCAGCCTCT
GCGTTAGGTGGTTTATTGGATATATTGGNATTTGCCATATCCATAT
Sequence 3074
CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAAACTAGTAATGCAAAGGCAGCAATGTTAG

TABLE 1A
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CAAAATTTAAAGAGTTATACCGGGGTGAGTTTTACAGAATTAGTAAGACCATTTAAAAGT
AATAAATCAACGTGTTGCGATTGGTGTATTGCTGCATTTGGACTTACACCCAGTATAGCT
GACAGTATGAAAACACTATTACAACAATATTGTTTATATTTACACATTCAAAGTTTAGCA
TGTTCATGGGGAATGGTTGTGTTACTATTAGTAAGATATAAATGTGGAAAAAATAGAGAA
ACAATTGAAAAATT

Sequence 3075
GGTACGCGGGCTCCTAATATTGGAAAGGAGAATGGAGACTATTTTGTGTTCCAACATTAA
CTAAAAATACTACCAATTGCAGAAGAAAAAAAAGATGGTATATAAAATAAATCATAATGA
AAAAAGTAACAAAATAGCATCCTTTTTGTTTTCCAAATGAAACAAAAACTTTTCACCTAG
AGGTGCTTATAGAATGTGACCTGATACTAAGTAAATACAAAATTGTCACTGCTAAATAAT
TTTCCAAGCAAAGATAATGACACTAAAATATGTTTATTCGTTCTCAACGGTAGCCTGCTT
CTCTTGGAATTCCAGTCAGCTTTGGCAAGAATGTCTTTATCCAAGTGTCTCCAGAGTATT
CTGGGCAGCTCAAA

Sequence 3076
CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG
TCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG
CAACAACTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT
AGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTCGCGGCGGTGTG
GTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGATACTTCGNTGCTGCTGCAGGATCA
GCCATGGTAGATTA

Sequence 3077
CCCTTAGCGTGGTCGCGGCCGAGGTACAAGCATTTGGATTCATAGCCCTTAGAATCTACT
GTTTCCAAAGCTAGTCGAATATCAGAAAAGCAGCTTGGTAAAGTGCAAATAACTTTGTTC
AGGGAATCAGGAAGCACAGCTTAGAATCCCAGACTCCCTCTAACTGTCTGTAATGTAAAC
TCAGGTAATTCCCTTCACTAGGTATCAAATGTCTCATCTATAAAATGAAGGGTATATATG
TGACCAGTGATGCTACTTTGACGTATTTTGAGTTAATCAGAGATTTTTCTGCTCAAAATC
TTTGGAAGAAAAGCTACTAATGGGTGGCAGAGAGTGGCAAACGTTCTATCTAAACTATAG
ACCTCCTCCTCTTCAGAAACCTCTGATGAATTGTGCTACATAGAATAAAATATAAAATCT
TTTGTATCCTTTACTGGNGCANAAAGTANATGCTTGATTTTTTTTCT

Sequence 3078
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT
GCGTTTAGGTGTTTTATTGGATATATTGGATTTGGTTATATACCATTATTTTTAATACAT
ACACATGCACGCTTTTTAATTACATAATGTATATGTACCTNGGCCGNGACCACGCTAAGG
G

Sequence 3079
CCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCGTCTACATGGCATTG
GACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG
GCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTGG
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTTG
CTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTG
TCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGCG
TTTAGGTGTTTTATTGTATATATTGTATTTGTTTATATACCATTATTTTTAATACATACA
CATGCACGCTTTTTAATTACATAATGTATATGTACCTGCCCGGGCGGCCGNTCGAAGGGC
GAATTCCA

Sequence 3080

TABLE 1A
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CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTTTGTCTCCCAAAATGTGAGAACCTC
CATTAAGTCCAGAAACAGTTTTTTAAAAAGGACACTTTTTAAATTTTATTTAATCACTAT
TCACTCATTGTCTGTTATGTGTCAGGTCTTGTGCCAATATTAGAAGCATAGTGATATATA
TGACCTGGTTCCAGCTTTGGGGAGCTCAAAATTTAGTTGATGAGACACACAATTTCATCA
TCAGAATGCAATATTATAGGTGTTAAAATCGAGGTGGATAAAGTGGTTGTTTTTCTGTCT
TTCAGTTTGCCTGGGAGTCATACTTCAGAATAAGGGCTAAAATTGGGGTCTAAGAAAGGT
GTGAATAAGGAAAACATTAAATACTTTTACCTAAAAGAAAATTGGGAGAGACAGTTTANG
GGACAAGTTACTGAATAAGAA

Sequence 3081
CCCTTAGCGTGGTCGCGGCCGAGGTACATGAGCACCCTGGAGATACTAAAACTCTTATTC
TGACTAAATGTCTTTCAAGAGCAGCCTCCAGATTTTTCTGCATTCTTGCTACCTTGTTAA
CTTGCAGTGCCTTACAGTTTACCATTGGCTGTCCTGAAATACCCTCTTAGAACTAAGATA
ATACAATTTGAAATCATGGGTAGAAATCATGAAATCATGGGTAGAAATAAAGAAGGTGGA
AGAAGCAGCTAGGTTTCCAAAGCAGCAAAATGTCAAGATACATTCTGAAGCAGCCAGTTT
CCCCAGTGTNCCCACCCCACCCCGTATGGGGCTCACATTCTATTTTTCTCTTTGCCTTTT
TTTAAAT

Sequence 3082
CCCTTAGCGTGGTCGCGGCCGAGGTACAATGGGCAGTGTTTGGATCCTTCCCTGGAATCA
GTGACGAATGCATGGTGTTCTGCCCAATGAGAATGAACCATTTGAACAAATCAAGTAACC
TCAAAGGTGTAATTCTCTTGGCATCGTTAATGATTATTGGTAGGAGTAAATAAGTGCAAT
TCTTTTGTTGTTCTTTTTTGGAGATGAGGTGTCTCTGTGTTGCCCAGGCTGGCCTCAAAT
CCCTGGGCTTAAGCAATCCTCCTGCCTCAGCCTTGAGTAGCTGGGATCACAGACATGTAC
GCGGGGAGCTCAAAGCCCGCAAGA

Sequence 3083
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGCCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGCTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT
GCGTTTAGGTGTTTTATTGGATATATTGGATTTGGTTATATACCATTATTTTTAATACAT
ACACATGCACGCTTTTTAAT

Sequence 3084
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT
GCGTTTAGGTGTTTTATTGGATATATTGGATTTGCTTATATACCATTATTTTTA

Sequence 3085
CCCTTACGTGGTCCGGCCGAGGTCTAATTAGAAAATATAGCTTGAGCCCCGTGCCAGGCC
TGTTTTGTTTGTTTTTGTAGAGACATGGCTTCACCATGTCTCCCAGGCTGCCTGCCTTGG
CCTCCCAAAGCACTGGGATTATAGGCATGAGCTACCACACCTGGCCTTACGGTTTTCATT
AATATAAATATAACTACGTATTCCCAATGCCACATTCATAAATGAGAAATTTTAATTATT
GATATCTTTAAGTTTTTAACAGAAACAGTGATACAAAGCTGACCTGTTAAAATTACTTAG
TTTTTAAAACAATCTGCAAGTCAGTCTGTGAATGGTATTTACATATTTAACCATTTGTTT
ATAAGAAATATTTACCACTGCCCGGTCCCTGCCCGGGCGGCCGAA

Sequence 3086

TABLE 1A
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CCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCGTCTACATGGCATTG
GACTGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG
GCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTGG
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTTG
CTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTG
TCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAACAGCCTCTGCG
TTTAGGCGTTTTATTGNATATATTGNATTTGTTTATATACCATTATTTTTAATACATACA
CATGCACGCTTTTTAATTACATAATGNATATGTACCTGCCCGGGCGGNCGCTCNAAAGGG
CC

Sequence 3087
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCATT
GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT
GCTTTGCTTTTGTGTGCTTTTGTG

Sequence 3088
CCCTTAGCGTGGTCGCGGCCGAGGTACATTCATTAACATGGGAAAAAATGAAATGCTGAT
TCTGAATTCCCAGTATGAAATCCCTTATTGAAACAGTTCCATCTCAGCATGAGCTTTATG
GGGGATTTCATAAGAGGCCGTCCTCTCCAAAGTCCCCAAATAAAGCATCTGGGGATGATT
CTCCTCAAATTCTCCTCAAATGCAATGTTAACCTTTAAGAAAAACCAGAAGAAACAAATT
TAAAATACCAACAAATGATGCCTGTTTTGCATCATTAACCGTAAGTGTTCACATTGAGAA
ATCCATACAATTGAAACATAAAATCTAGTATCTATCTAAAAATAAAAACAAAAATAGAAT
GGAATGAAAAACACATGCAACTGGAGTTATTAAGCTAGTATTGCTCTTTTGTATTTTATC
TTTCTGTTTACTTATAATTTCTCCCTATTGCACAATAAGCAATTTATAGTAAATTGTAGA
TCTTATATATCACTGCATTCCAGCCACCTGGCATTTTTCCCTAACATATTAGCCCGATAA
ATATTT

Sequence 3089
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGTTTGTTTAAACTTAAGTAAGCCTT
AGTAGTTTATGGCAATTTTAAATAACCTTTGAAAATATACAAGCAGATACATACATTAGC
TCTAAATGTATATATAATTATTTTATTGAAACTCACATTTTCGGCGAGGCGCGGTGGCTC
ACATCTGTATTCCCAGCACTTTCGGAGTCCGAGGCAGGCAGATCACAAGGTTAAGAGATC
GAGACTCTCCTGGCTAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAAATTAGC
CTGGTGTGGTGGT

Sequence 3090
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGCCTACATGGCATT
GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT
GCTTTGCTTTTGTGTGCT

Sequence 3091
ACAGTAGTAGAGTGAGCGGAAGCACTTTTGGCTGAAGTGCAACATTAGTGATTGAGGAAG
TGCAGGTCCGTAATATCTTACCCCAAACCCTGGGGCTCACTGAGCTTCCGAGTTCAGAGT
TTTTCAGAATTGATGAACACATCCAGAAGGCCCATGGGGCAGATACACCTTAGACATATT
GATGAAAGTGGAGTTGGAATTGGGTTGTGGAAGTCGTAGGACGTGAATTCTAGGTTTCTT
GGAGTGTGGAGTATGGTGTCTACCGTTTGGAAACAGAGAAGAATGACATTATGAGTTTTA
TTTATAAAATAAGAATTTCTTCTTTGTATTAAAATAGATTTTTATATAGGAAATTTTCAT
TACCTTCAGTATCAGAAAGGCCCCCAAATCTATTTCACCGTTTCCATAATAAATTGTGAA
AGAAAGATTTGATTGGGATATTGTCTTTAAAAATGAAACCAAAAAGTATGGGAAAATCTT
TAATTTT

TABLE 1A

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Sequence 3092

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCCCACGTCCTCCCAGACCTTGAATGCACCGC
TGCCTGGGCCCGTGTTTCAGCCACACCTGCCCCCTATAACCTAGCTCCAACCTTCATCCC
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CCCGGCACAGCTGTTTGCAATCTTCACTGTCCATTAGGCACCTCAAGGGGCTTTTAAAAA
TATTCATTCCTGGGCCCCACCCCGAGAGGTTTATTAAAGTGTGTGAACTACTGGGATGGG
TGTTGGGGAGAAAGACTAAGACATCATNCAAACCACANATGTTTCAATCTGAGGGGGAAA
ATAACATATGCATGCCACTACCCCTTTCATGAAATGGGAANCTGTGGGGTGTTGCCAAGA
NAANAAGGTTATGTTNCCAAAAAAAGTTCGAAAAAAAAGATTTCTTAAGGGTNGGGGAAT
CANAAAGCTTTTGGGAGACACAAAGGCCTTTTAAACCNGCCTTNTTTCCTTGAGGAGCCT
TANAAAATGGGTGGGNTATTTACATACTGGGCCCTTCCNAAAAATTTTGGNAACTTTNGG
GGGGCTTGGGCCCCNCAAAAATCTAANNGGTTTTTTAAATTTTTTGACCCTTTTGAGTTT
GGAAAAAGGCCNAAAAAAAGNTNGGGTTTGGTTTTTTGGTTTTT

Sequence 3093

GGTACGCGGGGATCGTATCCATTTAATAATAACCAGCTGATGGGATGCTGTGAGGTTAAA
TGGGATGCGTAGGGAACGTGGGTTTGTAGGTTCTCCATAGAGGGTAGCTGCTGCTCTTAT
TATTGAGACTCTTGTTGTAGGACAGTCTCTCTCTCGCTCTCGCTCGCGCTCTCGCTCTTT
TAGACAGGGTCTCGCTCGGTTGCCCAGGCTGGAGTGCAGTGGCACGATCATAGCTTATTG
CACCCTTGAACTCCTGGGCTCAAGAGATCCTCTGCCTCAACTTCTTGAGTAGCTGGG

Sequence 3094

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCCTCTTTCTTTTCACTTCATCTTTACGGGCA
TATTAATGAGTGGAGTAAAGCACTCAGAAGAACAGCAGGAAAAGAGGATTCATGTATGTC
AGAGGAGCTGAAGGCTCTCAATAGGTTCAGAGAATGCAGGTCTTCCAGCTGCTGAGGGTG
TATGCTTCCACTATGCCTNATAGCAACCCCTGAACAAAGTGGGGTCTCTAAAGTTCTATT
AACAGGCTCAATTACTAAACACCTTTAACCAGAAAATATTCCCTCTGGGTCCTTTTCCTT
TACATTCCATGAGTTGGAGAAGGGAAGGAATTAGTGTAGTAGTTGAATGAATGGCTGAAT
GAAATGATACAGTTGATAGTGTAAGACTCTACAAGCAGCAAAAGTCTTGACTATAAAAGA
TACTTCCTTAAAACTGAGAAGAAGATATTCATTTTTGTCCCCCACTCCCCGGA

Sequence 3095

ACTTAGCACTGGTTTTCAAGCTGAAAAGTAAGTATAAGTCAGCAATAAATAGTTGCCATT
TATGAATACACAGGACAAAGAAAATTGAGCACCTAGTGGCTGATGTTTGCAAAATATTAA
ATAACTTAAGTTCATTGAATACAATTAGAGTCAAATTAATGAAGCTTAGAGATCTAGTGT
TATTTAAACTACTAGTAGTGGGCCAAGTGTTGCCATTAACATTTTTTTAATGATGAAATA
GAATAGTAAAAATATGTTTATTTTACCTAATAGGTTCATTCCAGCTTTAAAAAAAGTGTT
GTTTCATGAAGCTTTTGTGT

Sequence 3096

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCATCATGAAGAGACTGAACGTGCAAGATGCT
GTCTCCTCCCAAATAGACTCACTACTGAGCATGTCTCTGAATTTCTCAAGTGTGTCTGAC
AGTCTGAGGGACTGCTGCTGTTCCCTGATTGGCAGGTGAGGGCAGGTTGGGAGGTCTGAG
GAAGACCCATGCCAGATACCTGAGAACCACCTTTGTGTCCAGTGAACAGATAGGCTAGAC
CCAAGAAGAAATGCCATCCCAGAGAGCTGGCTTATCTGAAAGTTGTAGTTGTTTTTCCTT
TAATAAAGAAGTGGGTGGCCCAAATATCTTTGATCTGCTTGCCTTCTCTTCCCCACCTGC
CAGTGTGAAAGGTTCTTAACTTGGTGGCCCCGTGTAAAATGGGTTTTTACAGCTTGTGTT
CCGTAACTGAAGGGCTTTTGATGAAACTGTTTTNGGTGAAAAGGCT

Sequence 3097

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTCCAATTTAATTCTTTTAGTTGAAT
GAGCTTCTTTCTCGCTTGTTACAGACTCACTTAGGGTCATTCCTCCCTGCCTTAGTCCCA
GTATGGTCTCAGTAATGACATGCAGTATGGGGACTTTGGACTCCTGTTTGAACAAACCAG
CTTTGAGATGATAAAAATTTGAATATGAATTGAGTTCTTGAAGATAAGAAATTGTTAATT
TTGTCAGGTTTGTTAATGGCATGGTAGTTACTCTAAAAACAAATTTCTGGGCGAGTGTAG
TGGCTCATGCCTGCAATCCTAGTACCTCGGCCGCGACCACGCTAAGGG

TABLE 1A

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Sequence 3098
CCCTTAGCGTGGTCGCGGCCCGAGGTACTAATAAGGCTAGGCTACTTTAAGGAATTTCTA
TTTTGAACCAGATAACTAGTATTAAACAGCCATAGGCCGTCTTCTAACCCCAGCTAGATA
TTTTGCAAAATGTTTTTGTTATAATAAAGGTAACAGAGGCCAGGCATGGTGGCTCACGCC
TATAATCTCAACACTTTGGGAGGCTTAGGCGGGTGGATTACCTGAGATGGTTTCAAGACC
AGCCTGGTTAACATGGCCNAAACCACGTCTGCTAAAAATACAAAAATTAGCTGGGCGTGG
TGGCAGGTGCCTGTAAGTCCCANCTACTTGGAAGGCTGAGGCAGGAGAATTGCTTGGACC
TGGGA
Sequence 3099
CCCTTCGAGCGGCCGCCCGGGCAGGTACAGGTGGCTGTGAGTAAATACTGTTTCTTTGGC
TAAATCTTAGTGAGCAAAATGACACATATATGTATTTTATAAGTCCCCTGATAGCCTCTG
TGCCTCCCGTCTTTTGTTTCAAGTAATCCCTTGAGTAGAGCTGCATGTAAGTTTCAAGAA
CATGCCTTTCCTTGGTGGGGANGGAATCCTGTATTCAACAATATTCCAGAGTATTAACTA
AGTGGGATCACATTCATGAAGTGGGTCTACCTTCGTTTGCTCCTTCTGNGGTAATTTATC
CTCAACACAATCTNCTNTANGCTNAAAGGGGTAAAAGTGTGNCCAAGAAACCCCTTCACC
ANACCACACATACAGTGATGCTGGTCCCACTGAAAACCTTTTTTGGTTCCGTTCCNACCT
TACCCAATNTTGNCTACCAATTGGCTAATTTGAANCAATCGGATTTTCCTTGGGAAACTG
GGATT
Sequence 3100
CCCTTAGCGTGGTCGCGGCCGAGGTACTTAATTTTTTTTTTTTTTTTTTTTTCGGAGAC
AGGATCTTGTTCTGTCGCCCAGCGTGGAGTAGCATAATCATAGCTCACTGCAGCCTTGAA
CTCCTATGCTCAAGTGATCCTCCTGCCTCAGCATCCCAAAATGCTGGGATTACAAGCGTG
CNCCACTATGCCTGGCTAATTTATTTTATTTCATTTTTTGTANANATTGAGTCTCGTTTT
GTTGCCCCGGCTGATCACAGTTACTTTTGAGTATATATAANCAGNGGCTATCAGGAACAC
AAGAGGCCCAGTTACTTCCATTTCTTGAGATTTTCTGTATATTAAAAAATTTAAAAGGGG
ATATTCTGGGGGGATTTATTATCAAAACTGTGNTGATATGTTAAATGTGTACCTGCCCGGG
CGGCCCGTTTAAAAAGG
Sequence 3101
CCCTTAGCGTGGTCGCGGCCGAGGTACATTCAAAGCCCTGCTCCACACCTTGCCCTGGCC
AGGTCCACCTTTGAGGTGATGACGACAGTTGCTGAGAAAAGAGAAAAGACCACTGGCTCA
CTACTTGTTTCTGCTGCTATAATANAGAGGAGAAAATGATGAAATGCTCTTTTTACCTTC
CTGTTTGAAGATTGCCTGGTCATAAAAGGGAGTCAGAGGTCTGACTTCTCTATTTCCATC
CCTTAGGGGACTCTTTAACAACAAAAAGAATGTATTACAAGTATGTCAAGCTGATAACGC
AAGGCTTTTCCTCCTGGAAGATTGGTGTAGGTGA
Sequence 3102
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTGCACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGNGGATAACAGCAGCCTCT
GCGTTTAGGGGTTTTATTGNATATATTGGATTTGGTTATATACCATTATTTT
Sequence 3103
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTAGCGGCCGCCCGGGCAGGTACGT
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TTGTATACTGCAGTGTCGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGT
GCAATTGTTACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTT
AAAATACCAAAAACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATA
CTGCATCCACAACATTACTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCT
GCCTATTAATACGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGG

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TATTACTATTGTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGNATATATTGNAT
TTGNTTATATACCATTATTTTTAATACATACACATGCACGCTTTTTAATTACA
Sequence 3104
CCCTTGGCCGCCCGGGCAGGTACCCAAAGATGTTTACTTGAGAGTAGTTTATTCCTTTCA
GCTCCTCAGCTCTATACATTCTTCCAGGGAACCGTAGATCTTGGTGCCTATTTGAGCCCC
AAAGGATCAGTTAGTTTTACAAAGGACAATCGTATTCTCTGTCACATCCTTTTTGGCCAT
GCCTCAAAAGCAGTCCCACAATGTAAGCTACTGCTCATAGGCTCAATGCAGTCCACCTTC
AAAGCAAGAGAAATAATTTCATGAGTAACTCCAACTGCCGCCTTGTTATAGGGAAGGCAT
CATGTTGGAG
Sequence 3105
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAAAGTCAAGTTTCAGTTGTTTGGAAGTTTG
TGGGGGTTTTAATTTTTTTCCTTTAAAAAGTTCTGCCTGTCCCATCTTNAAAGCTTGCGA
TCCTTGCTCTTGTTTTTTCTTCCCCTGTGCTNGGCCTGNTAGCGGACTCNTCTGATAAAA
TGCCTAACNATCAAGGTAAAT
Sequence 3106
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGCGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCCTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT
GTGTCTACATACACATCATTAATACT
Sequence 3107
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGCGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCCTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGGATAACAGCAGCCTC
TGCGTTTAGGTGTTTTATTGNATATATTGNATTTGGTTATATACCATTATTTTTAATACA
TACACATGCACGCTTTTTAATTACATAATGTATATGTACC
Sequence 3108
CCCTTAGCGTGGTCGCGGCCGAGGACAATGCTCTATAAAACATACAGATATCCCTGTTTT
AGTGTCCAGTTCTCATTTAATATCAGATCAGATAGATATTATATTCTAGTTCTATTTAGT
GGTTCATAGAACCTAATTATGTTGTCCAGCATCATCTTTCCCACTTGGAAATTCTAGGAA
GATGACCACATCCACTGCAAACAAGAACATTTTTTTTTTCTATCAGTGTAGTTTGCCTCT
TTTATTTTACAGTTTTGTATCTTATCTTAATGAACTGGCCATACTTTAGAACAAAGTTGA
ATATTAGGTTCTTCATTTCAAAT
Sequence 3109
CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGGAGCCAGGAAGAGCAGAGGGGAGCATCAG
TGTCCACATGTTGGGGGATACCTCTGTGATCTGTCCACCCCTAGTGGACAAGCCACATAT
TCAGGCCAATGCCCAGTAAGGACTGGTAACAAATTTCTGTAAGTCCTCCAGCTGCCCCAG
GGAGTCAGCTGTGCCATCAGGTCCCATGGCCTTGCTCAGGANACCAGAGTGAACATGACA
AAAGGAGAGCCACTTCTCCTTCAACCTCTGTTCACTGCTAAGTTACCTTGCTTCTGGAGG
GAAAAACAAAATCCTTCCTCAAGCTTGTCAGCCACCTCCCCTGAGGCCTTCCGTGCNTCT
TTTAGATTCTCGTACCGCCGGGGATGAACAAGCAAAGGAA
Sequence 3110
CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTGCAGTCAGGAGCCACTGTGCCTGGCC
TCTGGGCAAACCATTTCTCTCCTTGGCTACTAGGATGTGGTAATTTTCTTGCCCTTCATG
ATTGNTCCTTCTCTCTACCCTTTAACACATCCTTTCCCATTTCCACCTCTTAATACTCCA

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TTACCAGTATTTTCTAAGGTTCCACATTTAAACTCCATTCTCTGTCTCTGTATTTCTCTC
TGCCTCTGGCTCTGTCTCTTATCTTCATACTTTGCACCCCACCCTGCTGGCAATCTCATT
CTACCCCAGGAATTTAACTCTATCCTGTCTTTGTTATGTCTAAAAGAAGAGCCACANGGG
AGAGGGGCCAGAATATTTTCTTCATTTCTTTACAAAGNGATTTTTCCTNAAGGGGANAAT
CTGGCCTTTTTTTT

Sequence 3111
CCCTTAGCGGCCCGCCCGGGCAGGTACTCACTTCCTCTTGGTGCCTTAAGAGCTTTCCTC
AAATTGTATTTCTGAGCAGGGACATTTACAAGCCTGCATGGAACTGAAGGATCTCCTGTC
TGAAGATTCTCACAAGTAATTGATAGAATGAGATTTATTTGACAAATAACAAAACCATCT
GCCAAATCCATGATTAAATGGCAGGGACTCTGGGTCTCTTGTGCTTAGTGAGGGAAGGAA
GGAGGTGGTATGTTTTCAGTGAAACACTCACTGAATGGAACTCCAGGCTGGAGGGAGAGT
GAAGAGGGAAGAGAATACAGTCCTTGCTATTTTCCTCAGCTGATTCATAATACATTAACA
CCCTCATTTACATGGCCTATTAGAAGTTATTTATATTTCCAATTACAGGCTATTTGAATA
TTGCATTTGTAGTCGAATTACAGGGTTTAGGGAAAGCTCGTTTGTTTTCAAGAAAGGATT
CTGGTT

Sequence 3112
CCCTTCGAGCGGCCGCCCGGGCAGGTCCTGGCACAAGGTAAGTGCTCAGTCAATGTTTGT
GTTATCATTTTATTGCTTGAGCTATGGTCTTTTCCTGATTCTTTCTTGCGACCACAGCAC
CCCACAGGTTTTTGAGTTATCTTGGAACTAAGTGGNCCCACCAGGGAATCTATTATCATG
GATAAATGAAAAACTGAATGAATAAAATTTACTGGTTTCCAAAGGAAAGCAGAGAATAGA
TTCAAATTCCAATTATTTAATAAACACCAAACACAACAATATATACTGAACTGAAGAAGT
TGGATGGGATAGGGGGAGGNGTCTTTTAAGAAGCAGAAGACCCGCCAGATGCNGTGGCTC
ATGCCTGTAATCCC

Sequence 3113
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAACGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCCGCCTATTAATACCGTCCGCTGCTTTTGTC
TGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTC
TGCGTTTAGGTGTTTTATTGTATATATTGGATTTGTTTATATACCATTATTTTT

Sequence 3114
CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTTTCCACAGAGTGGGAAGATAAGAACACAT
GTAGAGATGATAAAATGTCATTGGCTCCAAGAGACAAGCTTCGAAATCCATGGTGGTTGA
AGAACATCAAAGAGGAGCAATTATTTCAGTCATTAGGGCAGTTCCACCTGTTCTAATTGA
ACATTTTTAGGATGTAGAAGATGCATCATACATTGGTATCTATTCAGAAGGTGGGGACAT
CTGCTGTCTGTCATGTATCTGGGAGATGTTTATCTCAACAGGAGGCAATAATAATATGGT
AAACCAAACCTAATATTATCATGATGCATTAAAACTGGGTTAATTGAAGCAATAAAATCA
AAGTAACAGTAAATGCTTATACAACATGTTAAGTAATATTTACTTCAATCTTAGAAATGA
AATGATAATTTTACATTCTAGCAGATGTATTTCTTGATACCTGTTCTGAGAGGACAGAAA
CAAGGCTCAAAATTCATGCAAGAGGCTAATAACAACTTANTTGATAGTAAAATATGGAGC
ATTGGATGTAGAAGTGCATTAACCTTCTTGGTTAATCTGAGTTGGACCTATAAGTGGGCA
TATTGGTTTTTTGGGGAA

Sequence 3115
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCAGCCTGGGTGACAGAGCAAGACTCCGTC
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AGAATTGCAATGTTGGGTTCAAGATTACCACTTGGGCACTGAAGTGAAGATTAAGGGTTA
GAAGTTAGGATTTAGTACCTCGGCCGCNACCACGCTAAGGG

Sequence 3116
ACATATCAAATTTCCAATTTATATGGAACCATTTAATAGAGATTTTTTTCTATAATTATA

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AACGATAATTTCTAAAGCTGTAGATTAACCCAATAACATAGACACTTCTTAATAACAGCT
TTTGGAAATTGGAACAAGAAGTCTGCAAAGGCGGCCGGGCACAGTGGCTCACGCCTGCAA
TCTTAACACTTTGCGAGGTCGAGATGGGCATATCACCTCAAGTCAGCAGTTCCAGACCAG
CCTGACCAACATGCTGAAACCCCATCTCTACTAAAAATACAAAAAATTAGCCAGATGTGG
TGGCACGTGCCTGTAATCCCAACTACCCAGGAGGCTGAGGCAGGAAAATCNCTGGAAGCC
GGGAAGCAAACCCTGCANTGAGCCAANATCGCCCANTGAACTCCNGCCNGGGGNNACACA
TTGANACCTCCNNCCCAAAAAAAAAAA

Sequence 3117

CCCTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
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TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT
TGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTG
TGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTG
CGTTTAGGTGTTTTATTGTATATATTGNATTTGTTTATATACCATTATTTTTAATACATA
CACATGCACGCTTTTTAATTACATAATGTATA

Sequence 3118

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGACCTACGTGACCATATAGACTATTGGAAAC
ACATGCGCCTAGAATGTGCTATTTATTACAAGGCCAGAGAAATGGGATTTAAACATATTA
ACCACCAGGTGGTGCCAACGCTGGCTGTACCAAAGAATAAAGCATTACAAGCAATTGAAC
TGCAACTAACGTTAGAAACAATATATAACTCACAATATAGTAATGAAAAGTGGACATTAC
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ATACAGTGGAAGTGCAGTTTGATGGAGACATATGCAATACAATGCATTATACAAACTGGA
CACATATATATATTTGTGAAGAAGCATCAGTAACTGTGGTAGAGGGTCAAGTTGACTATT
ATGGGTTATATTATGTT

Sequence 3119

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACCTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGT

Sequence 3120

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATTCTATGCCATTACACTTCTAGGTGTATAC
TTAANAGAAATGAGATATATATCCTCAAAAGGTCCTATATAATAATGACCCAGGCAGCTT
TATCAATAATAAACAAAAACTGGAAACAATCAATCAACAATAAAATGACGTGGTTACTTG
TTCATAAAGATGACTGCCCAACAAACCACGCCTTCTGTTATCCCTGTCCTTATGTGTTCC
CCTTCCTTGAATTTGTGCTGGTCTTGCGATTTGATTTTGACTGATATAATACACCAATTG
TGAAGCTTTATGATTTCTAATCTGAATTCAAAAGAATCCTTGCAGCTTTCTTTTTGGTCC
C

Sequence 3121

CCCTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
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TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT
TGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTG
TGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTG
CGTTTAGGTGTTTTATTGTATATATTGNATTTGTTTATATACCATTATTTTTAATACATA
CACATGCACGCTTTTTAATTACATAATGTATATGT

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Sequence 3122
CCCTTGAGCGGCCGCCCGGGCAGGTACTCGTGGCCCATGTTGGTTCAATTTTTATAGCTT
CAGTTATCCAAAGGTGACACAGAATACCCATAATGATGACTGGGCATGCGTTTTACCTTT
GGGCAGACACCCCATCTTTTTATTCTGAAATTTAAAATAATTCAGATTCTTTTGGGGAGG
GGATTAGTTTAAACATTAATAAACAGAATATAAACAGGCAGATGGATGGGTAGATAAGCG
GTATTCGGGAATTTGAGGGCTTGGGACAGAAATAGATTCCTTTTCCTTTTTAGGTTTTCT
TTCCTAACTTGCTGCTTCC
Sequence 3123
CCCTTCGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATTAAAAAGCGTGCATGT
GTATGTATTAAAAATAATGGTATATAAACAAATACAATATATACAATAAAACACCTAAAC
GCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGAC
ACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAGC
AAAAAGCACGCCAGTAATGTTGTGGATGCAGTACCAAGATTTGTCATATAGACATAAATC
CAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTACG
CATATGTAAGTGTAACAATTGCACTTTTAT
Sequence 3124
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTGTATTGACTAATTGCCCTCCAGTAAA
GTTGCTGCAAATTATTCTTCTACCAGCAGTGTCTTAGAGTTACTGTTTCCTTAGAGACAT
GCAATGTTCTTTATTGTCTTTGTCAGTAAGTCAAGCTAAACAAATATTTAAGCTTTATTG
TTTATTTCTTTGATAACTGCTTCATGTGCTCTTGTCATTTGTGCATCTTCTGTGAATTGC
CTGTTTTTGTCTTTTGCCCATTTTATTTATTGAATTGCCTTTTTAAAAACTGATTTGTTC
ATGCCTGTAATCCCAACACTTTGGGACTCCAAGGCAGATGGATCACGAGGTCAAGAGATC
GAGACCATCCTGGTCAGTGTGGTGAAATCCCGTCTCTACTAAAAAT
Sequence 3125
CCCTTAGCGTGGTCGCGGCCGAGGTACATCAAGTGCTTTTTAAAAAGTTGATATTGTTGG
TTATTTTTCTTTTATTAAAATCCACAGCCCTGTGGGCTGCTGTCCCATCCTTATCGGGCT
CATTCAAGACCAGCATTGACATTTCTAATTTGCAAATTTAAAGATTGTCAGGAAATGGTT
TAAACACCCAGTATGATTGGGGAGCTTTTTGACTGTGGGTGACAAGAGTGGGCTCACCTC
TGGGAAGACAGTAGGGGCAGGGGAGGAGAGCTTGGGCTAGATTTAGGGAGAGTTAGGAAT
AGCTAACATTTATTAAGCACTTA
Sequence 3126
CCCTTAGCGTGGTCGCGGCCCGAGGTACTGTGTTTAGAAGGGATTACCAAAGGCTGGAGC
GATTTAAGCTATGCACTAGCCTTGCCCTCTTAGGTTGCATTCTCTTTAGGCCACTGGTTC
TCAAACATTAGGGTGCACTGTAACCATTACAGAGCTTGTGAAAAGTGCAGAAACCTGAGC
CTCACCTTATGAGATTCTTGATTCATCCAGGGGGAGGA
Sequence 3127
CCCTTAGCGTGGTCGCGGCCGAGGTACACATTTATGTGTGGGTGTACAACATTTTTCTGT
GATTATATGGGTAGTTTTGAAAGAATATACTTATGAGCCAGAGCAAGAAATTGGAACCAA
TATGTGTAGAGGTTATTGCTTTTCTCTGCTTAGTGTGTCTTGGAAAAAAGTTCTTTACAG
GTAAATAATTTTAAATACCAATACCCTTAGTATGGATCAGCAAATTAGGGGCTCTGAGAA
GTCCTTTCATTACAAGAGTTGTTTAAGCTTTGATTTATTGTTTTCTAAACTTATTTGAGC
TGGGATGCTTTTTCAGAGCAGACACATTCTAGTATATTCTTGTNTTATCTGCACTATAGA
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TCCCTTGGTTTAATGAAGAACATTCAA
Sequence 3128
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATGAAAGGCCAACTCCCTCTTTGGACACAG
GGGGCTTGGTTGTATTCTACCAAACTCCCACTAGGGGGAGTGTTTTAGCAGTGTGGGCTG
TGCCCTTCACATTCTAAACAACTGATTTTCATTAGTGATTCTCATGAACAAAAAACTTCA
CCTCTTCACCTATCATGAATACTCAACTTATAAGGCCAGGTGCTGTATAAATCCCCGCCC
TCAACACCCAGACTCCCAAATGCAGGTAGCTGAGCTGATGACTTTTTATAAGCAATGCTA
CCTTAAAAATATGCA

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Sequence 3129
CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGGCAACAGAGCCAGACTCCATCTCAAA
AAAAAAAAGAAAGAAAGAAAGAAATGAAAGTGGTCTTGTGTGGAGTCTCTGCCCTCTAAC
CTTGTAGTTGGCCCAACTTAGCACAATTTCTTATGTGATATTTCAAGTTAATAGTGCCTC
TTAGGCACTATTATCATCAATCCCATTTTGGAGATTGGGAAAATGAGATAAGGAACCTGA
CTGAGGTCACACAGTTATCAAATGACAAAAGCGAAATTTAAAAGCAGATACCAGCAGGGC
TTGATGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCAAGGCGGGAGGA
Sequence 3130
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGAGTTCGTCATACATCTAGATGAGGATGTA
AAAGAACAAAAACTTGGAATTTCCCTCCCTCTCCATGCAGCTTTGAAGAGTCTTTAATCC
AAGGGAAACCTACAGTTCTTTCTCTGCCGTAGGTTCTCTTCTCCTCTCTTCCACTTCCTC
CAGCTCCTGTTTGTCTCTTCCTCCCTGTGTGTCTTACTACCTTGTTTTGGGGGTTTGTTT
TCTCTCCTGATTTTTACCTCTTTCAGTCCTCAAAATGGTCTGAATAAACTGGAGATTAAT
TTATTTTTGAAAGAAGTGTTTGTATCTACTAAGTGAGGTTATGGAAGAGATCCAAAAATG
TTCTGGGTGGCAGGAGAAGACATTTAAAATACACAGTTAATAAGCCACATTTAGATAATC
TATAATTGACTGTAGTTTATTCAGAAATGTCTTTTGTTAAATAAAGCTTCTAAGTGAAGT
CTCAAAGCCACAGAATTAAGAAAGGCTGTTTGTTTAATCAATGTGATTACTGCTCATATT
TTTAAAAGGAAAAAAAAGCCNNNNAAAAGGAAAA
Sequence 3131
CCCTTTCGNGGCCGCCCGGGCAGGTCCTTAGGCATGGTCAGTAAGATCTGGCCAATGACA
TGTAAGCAGAAATGATACATACTAATGATATCCTGAATAAGAATGGGGTGTGACCCACTA
CTATTGTTTTTCCTGTTCCTGCTGGCTGGAATATAGTAAAGTAGGAAGCTGAACCAGTAA
TATTAAACCATGAAATAGAAAATACATGTTAAATATGGCAGAGCACTAAGATGGAAGAAA
TTTGGGTCACTTGCATGATGATGTGTGTGCCTATTACTAAATCTGCTTTGTTATCTGAGA
GAAATCCAGTCTCCTCATTAAACTAAATAACATTCACTATGACAGCATTGTTAATCTATG
AGGTGCCCCAGAATCCCTTATAGATTACCTGCTAAACCTGTC
Sequence 3132
GGACACATGAAACTATTACTAGTTTCGTATCAAAATAAAACTAGTTAATATTCCGTCAGG
CCAATCGCTAACATAATATACTCCAATAAAAATTTATTGACATATATCCACTACCAAAAA
AAA
Sequence 3133
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTAAATCACAAGAGAAGGTGGTGGCGAATC
CCTGCTCACACTGGAAGTTGCTCTGTGGACCATTCGAAGAAGCTCTGGACTGATCACAAG
GGAAACCGAGCAGAACTGTGAAGCAGACGGACAGGAACAAAAGGCTATTCTGGTGTGAGG
AGAAATCAGTCACTTCAGCTCCACAGGCAGATGTTGCTACTGGACTGACAAGTGGAACCT
ACTCCTGCTGGAGAAAGGTAAAGTTTGCCATTGGGGCAGACGCAGAGTTCATACACTGTC
TGTCGAGAACTTGAG
Sequence 3134
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCAAGTTTTTACTCAAACTCAATATAATTTC
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TTGTCACTAAAATCATATATTGTTTTCCAAAGAATACTGCCATTTGTTTATATTTCCCTA
CAGTTTTTGTTTTTGGGAGTTTTGTTTTGTTATAGTGGCAGCTGAAGTGATTTTGAGTGT
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CATAAATTGCTCAGAATCAGTGTGGAAATCTTCGGAACAGTGGATGTAGAAGATTTGGGG
TAAAACAGGCACTAGATGGTGAGGGGTTTTATGCTCTACTCATTCTTTACGCAAAATAAA
AACAGACGAGTAAGTGTTGGCCTCTTTGGAACAGATGATTCCCAGCAGCAGTTGGCATGC
TTTATGTACCTGCCCGGGCGG
Sequence 3135
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGTTGAGAGAAAATTGTTGAGAAGCTTCAA
AACCTGCTTTGCATTTTTATTTTATGGGCTTCCCTAAACCCAGTAGATCGAGTGCCAATT
AGGAATGCCTCGAACATCTATAAGCCTTGTAGGCTTATACTTGCCTTATATAGGCTTTGT

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AGACTATCACAGTAGTAGATCATCTATTGTTCATTAAATCTGCTGCTTTTAGAATTCCCA
GCATCAGAATTCTGTGCTTTAAAAGCTGATACCACATTTTTGGAACATTCTAAGACTGTG
GGTCAGTGACCTCCTATTTGTTTTGATCCCCGCCCCGCCTTTTATGGAATCTGATTTGGA
TTTCATAATTCCTATACTCCCATATAACATCTATGTCGTGAAAGATTTATAAG

Sequence 3136

CCCTTACGTGGTCGCGGCCGAGGTCTTAACATTTTGGGGCTAGANCTAATATATTTACTA
GTGGACACAGGAAGAAGCAGACGCCAAGGCATATGGTCAGGAAGGGAGTTAACAGGCCAC
CACCAAAGAGGAAGAATGCGGCAGCTGAATCACCTGAGGGTAGATGAAAAGAGGATAAAA
TGGCACCGACAGATCCAAAGGCCTTAAGAACCTCAAAAAACCTCAGTAATAAGGAAATGT
GTTTGGAAATACTGATATTGTTACCTTCATTTGGGAAGTGTTCACGTGTGAATAGGGAAG
AAAATAAGGGAACCACCTGTGAATTACCTTANGCTTTCACCAGATGAGTATGAGTAAAAT
GTGTGAAGTGAAATTCANGTTAACCCTTCAAGTCACATAGGCAGGAAACCNAAAAAAAAA
AAAAA

Sequence 3137

GGCCGCCCGGGCAGGTACAGATGTCTTTGAGGGCAGCTCTCAGGTAGAATTGCTTCTTTT
TGTAAAACTGTTAACAGTTTTAGATTAAAAATTTAAGGGGAGTAGATTCTGTCTGCACTC
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TGAATGTTAATCCCGCGTACCnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnNCTGGAATTTAAATATNTTNNATTTTNAACTNANNAAAGGCNTTTGGCNNAAACCAT
GTTTGGAAAANAA

Sequence 3138

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCAAATACAACTCAGGCACTTCAGATGGCT
TTGTAAACTGGGTCAATGCTATTCCATCTGAAAGGAAATTACAGAATTATTTTCAATTCA
ATTATACATCCCTGCAAAATAATTTGAGGGCAGCTTTGAATGCTGTAAGTGAGTTGTGAT
GCCATCTATATTAATCCTAAAACTTATCTTCAAATTGATTCCCAAAGTCCAACACACTTT
TTATTTAATAAATATTTACAGGCCAGGCACGGTGGCTCAAGCCTGCAATCCCAGCACTTT
GGGAGGCCAAGGCAGGCCGGATTACAAGATCAGGAGATTGAGAACATCCTGACCAACATG
GTGAAACCCCGCCTCTACTTANAATACAAAAATTAGCCAGGC

Sequence 3139

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCTCTATTTCTAAGTCTTGATTTCCTCATTT
ATAAAACAAAGCATCTAAATGATATCAAATACCCTTGTTTTGAAAATCAAAGAATAAGCA
CGGCACCCAAGACAACTTTTTGTATCACAGGCACACATGAATGCTTTTTTCCTTTTCCTT
TTCTTATCATAAAAACCTATATTTTATGACTTTTACATTTATTCCTAGATGCTCTCATAT
GCATTATCTCATTTTTACAATAACANTATAAATATAAACACTGTGTATGCTATTGTACAG
ATGAGAGACTTGAAGCACAGAAGGCTAAAACTACCTTTAACTTCTAAAGAAATTTTNTGA
GAAGCCATCTGAGNACTCTTGACAGGGTAAAATCCCTATCATTTNNGAAAAGTGCAACTG
GGGGANCACATGTNTTTTAAAT

Sequence 3140

CCCTTAGCGGCCGCCCGGGCAGGTACGCGGGTCGCTACCGTCGGCTTGATTTATTTCAAG
AGCATATGTTTGAAGTATTGGAACGAGCAAGAAGGATGAATCGGACAGATTCAGAAATAT
ATGAAGATGCAGTAGAACTTCAGCAGTTTTTTATTAAAATTCGTGATGAACTCTGCAAAA
ATGGAGAGATTCTTCTTTCACCGGCACTCAGCTATACCACAAAACATTTGCATAATGATG
TGGAGAAAGAGAGAAAGGAAAAATTGCCAAAAGAAATAGAGGAAGATAAACTAAAACGAG
AAGAAGAAAAAAAAAAAAAA

Sequence 3141

ACCTGCAATATATTTGGAGTATTATGTCTTTATTGTTGTTAAAAAGTTTTTATTGAATGT
ATGAAAATTATCAAATTGTATTCATCATTATTAACATGTCCTGGGGAAGGAAGGGAAACT
TTCTAGGACAGAAGTCACTTTCAGATGTCATGTATGTATTGGGTGTTCAATCATATCTAA
CACTGTTTTGATTTTTGTGGGAAAATATTCCAGGAAACGCTAATTCTCTTTAGACTCCTT

TABLE 1A

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GTTCTTTTATGACTACAATGAACATATGTCTATGTGATAGCTAAAGATATTTTTGAATTG
TATGTGTGCTTAATTATCGGTAAGTATAAATATTTGAGAAAACACATGGTCTGGATATTT
AAAACCCTCATAAACATGTTGGTACCnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnCGGGGNNNNNNNNNNAAATNTTTTNCCCCAAAAANCAAAAANCAGGGTTA
GATNTGAATTGGAACNCCCCATANNNTACCATNACATNTGNAAANNGACTTNTGTCCTNA
AAAAGGTTTNCCNTTCCTTCCCNAGGNCNTTGTTAATAATGATGAAATNCNATTTGGTAA
TTTNCATACCNTTCNAATAAAAAAACT

Sequence 3142

GGTACTTAAAAAATTTTTAATGTAAAATACCCCTTTAAGGATAGAATTTAGGGCCTTGAA
ATTCTACTCAGTTGCTCTGAACTGTGGGGAATTTGAGACAAATAGCTTTTGTAATTGGAA
TGCACACTGTGTTGTAATAATGTGGAAAGAGAAACAAAAACTTTCCTTAATGTAATGAGT
TTCCATTATCTGCCTAATCTAAGGTTTGTAAGTCTACATTGTCAGGATTTATATTGAGGA
GATAGGGGGTGTCATTTTCTGTACAAGATAAGTTTTAAGTATGTTCTAAATATTTGTCTG
CTGTAGTCTATTTGCTGTATATGCTGGAAATTTTTGTATGCCATTTAGTATTTTTATAGT
TTAAGGAAA

Sequence 3143

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAACACCTCCTGCAAGCCAGACTCCACTTACC
ACTCATGTTGAGATTTGTTCCCAACCTCAGAGAAGTTCGTGGTTGGGCACATATACCTAA
ACATGTGGCTTAAGTGATTTAAAATAGTGAAATGCTTGTTGATTACAAAAATACATGTAA
CACATGTAAGCTGTAAGAAATAAAATATATATCTCTCACTTCACCGCTCAATTTAAAAAA
CTAGAACTGTAGTAGTATTATTGAAGCTACCTGAATTTCCTAATTCCATCTCCACTGCCC
TGGCTCTCCAACTGAGAGATCTTGATTTTTTTCATTTATTGTTCCC

Sequence 3144

GACTCCATCTCAAAAAATAAATAAATGAATAAGATTCATATGGCACCTAGTTAATTTCAT
TTACTCAATACTTTTCAGAAATTGAAGAAGCTCTTTTTCACCANCTACTAAACAAAAGCA
ATTTATTCAACTAGGTTTTCTTTGCATGAGTTGTTCTGTATGTAACAAGAAAGCAAGAAA
ATAAATATTTTTAAATGTCACACTTCCCTGCAAAAATAATCACAATAATAATAATAATAA
TAATGAATAAGAGTTTATAGGCTAGGTATAGTGGCTCACACCTGTAATCCTANCATTTTG
AGAGGCTAAGGCGGGTGGATCACTTGAGGTCAGGAGCTCAAGACCAGCCTGGCCAACATG
GTGAAACCCCATCTGTACAAATACAAAATATTACTCTAAAAAA

Sequence 3145

CCGCCCGGGCAGGNACCCTACAGAGCTTTGTAAGTTCCTTCCTTATATAGTATATAAAAG
GTCATATAGCTATATCTGCAGAGGACAATAATGAAATATCTGGTATTAGTGAGCTCTTAT
TATATGCCANGNCCTTTGCTAACTGCTTTCCAGTGATATCTTATACCAACCCTATGGAAT
AAGCACTATTATCCTGCTTTGCANAGTAGGAATTGAGGCTTAGAGCAGTTGAGTAACTTT
NCTGAGGGCACACAGCTCTACATATAGTGGAATAAGTCACATTCCAGAATGTTCCTTTTA
CCTGCACAGGGTAACTCTGTCAGAATTTATAAAACCAATAAATAACAGCAGTAACAAAAA
CCTAATAGCTTCCCATGTACTTGAGGNTAAGGGAGCATATTTTATTTTTCCTTATATGNG
GGTTTCTCTGACTCAATTTGGCTGTT

Sequence 3146

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGGCAGCCTCTACTGGCCATTGCAAAGAGCA
GCATTGTCCTCTGTTCTTTCCATTCCAGGTTGCATATGCTTTTACTTGGGTTTAGCTCTT
TCTTCTTTGGTCCTCACCCTCTTTGTTGTCCTCTTTTGAAGACTAGTTATTCTGTTGGAT
GTCTTGATTTATAATTAATAAAGAGCTACTAGTCCAGTATTTTCATTAATAAATTAATAT
CATAAGTGAATGGAATTCTTCAGGACCTTAGAAGAAGTTATGAATATAACCTTTCCTTGA
GAAGTAATTTTCATGTAAGAGGGAAGATAGATTTATCTTTATGTAGGTTTTAAAATACTT
TCTCAGTTGCAAGCCTTAATGTATGATATAGAAGATTAGTCTTTTACTTATGANCTGGAC
AAAAAACCCTGATGCCTTTGGAA

Sequence 3147

CCCTTTCNAGCGGCCGCCCGGGCANGTNCTACTTATANATCTCCAGCTTACATAACTCAA

TABLE 1A
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ATTTAGTTTGCTTTCTGCGGCATTAACATTTGACTCATTGAATGGCTTATAGTANANATG
AAGGTTATTATAATGTANAAAGCNNATTAAACTGNATTTTAATTTATAAAATCAAGGTGT
TAGAAGAGGTGATTATGGAGGTCTTTTCTGGCCTAATTTTGTGACTGCTGTTGAATTCCA
TGTTACTTGAAAAGAGTATTTCAATAGCNNATNAACAATAGGCATCATACTTTTCATTCT
GAAGCCATTGAAGGTTTACTGCANAAAAATTATTCTCTAAGCACATGACTGTTATCCAAT
ATCTTAACAAAAAAGGAGGAGATCATTTTCTGGGTTATTTTTTCCTCAGACTTACTATGC
CACTGAGGTANCATACTAAATTGTCAATGACACTTTT
Sequence 3148
CCCTTAGCGTGGTCGCGGCCGAGGTACAGATGGGGTTTCACTGTGTTAGCCAGGATGGTC
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GTGAGCCACTGTGCCCAGGCCTATTGGGGGTTATGCAGGTTCCTTTGCTTGGCCATGGTA
GATGGCTAAGTCTTTGCTTCCAAGTTCTTTTGACCATGAGACATGTAGAGCCAGGGAGGA
AAGAGAAAACCCAAACCAGGTCACTGTTACCTGTGAATAACATCTTGATCGAGTTCTGAN
AAGAAGAGTGCCCGCGTACCTGCCCGGGCGGCCCGCTCGAAAGGG
Sequence 3149
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCTAGTAATTGGTGGCCCTGATATTTGAAAC
CTTTGTGTATTTTTTGGTTAACGTTCCTGTTCTTCTTGGCTGCTGCTAGCCACAGAATAT
TTATTTTTAGAGAAATTTTTCATTGGAACAGAAAATGGTGGTTGTGATGCAGTCATGGCT
CTGTGACTTAGCAAACTGATAAAAAGATAAAAGTATGAAGCAAAGACAAACAGGGTGGAG
GTCGGTGTTCTCCCGCCTACCCTTTCTATGTGGTGCTCATCATCAGTCCCCCTGTGTTGA
TTCTGATAGAGAACTATAAAATGAAACCTATGGGGAATTTGTCATTCTGAAATGAAAGCT
AATGTAAT
Sequence 3150
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AAGTCTGTGGTATTTTGTTATAGTCCCCCTGGAAATTAATACAGGATTCATGGTCTGCCA
AAGTCTCATTCCCTGCTCAGACCGACAATGGATAGTGGGATCCTTTGTGATATGTGCTCT
GTGAGTTAGAAGTAGTAACTTAGAGCTGTTGAGGACAATACCTTTGCACCCCATCCACTG
AATTTTGTTTTCAAAGATACA
Sequence 3151
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GTGGATTGCTTGGGCCTAAGAGTTCAAAGACTAACCCTGGTAACAGCGAGACCCTGTCTT
CTACAAAAAATAAAAAATACTANCTGGGCATGGTGGTGCACACCTATAGTCCCAGATANT
CAAAAAGGCTGAGGTGGGAGGGATTGCTTGAACCTGGGAGGCCCAAGGCTTCAGTGAACC
ATGGTCATGCCACTGCACTTCAGCCTGTGTGAAGANAANCAANAACCTTGTNTNNAAAAA
AAAAAAAAAAAA
Sequence 3152
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TCCTCATAGCACATATGAGATGTAGCCATAAAATAGATGAATTCTTGAAATAAGGAATAT
AACACTGACTATTCTGATTCAGTAGAACATAAAAAATGTCTAACAAAACAGAACCAGACA
CATTATATTATTTCTACAAGTAAACAGAATATCTATTAGATATGTTCACAAGGGTTTTAT
CAATTTTGAAATCCAAGTGTATAATCCCCAAATGCTGTAAGGACTTAAATTTTATAGCCA
AAACAATTA
Sequence 3153
CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAGGATATATTAAGAAAAGTGTTTCCCTTCC
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ATAAGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTT

TABLE 1A
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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
Sequence 3154
CCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCGTCTACATGGCATTG
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GCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTGG
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTTG
CTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTG
TCTACATACACATCATTAATA
Sequence 3155
CCCTTAGCGTGGTCGCGGCCGAGGTACNTGGNACTACNNGCNTNTNCCACCATGCCCANN
TAATTTTTTGTATTATTAGTAGAGATGGGGTTTTACCATGTTNCCCAGTCTCAAACTCCT
GAGCTCAAGTGATCTGCCTGCCTCANCCTCCTAAAGTGCTGGGATTGCAGGTATGAGCCG
CCGCCTCTACTTTATACTTTCTTGTTGAAGTGGACTGTATTGCTGATTCCCACCCACACT
CTCTTTTTGGATATCCGGCCCCTCCTCGAGTCTCTGGGAAGGGCAAGCACTATAAAATNG
AGGGACAACTAGGGAACTCCCACCCCCACTGCTAGGCAAGATCAGATTCTCTATCCTGCT
AACTGGAAATGATACANAGTGTTCGATAGAT
Sequence 3156
CCCTTAGCGTGGTCGTGGCCGAGGTACTACGCAATTTTGGAGGCTCTATCATCGTACACA
TTGGAGACACACATAATAGTTTAGACAGCAATTTTTCAATTGTTTCTCTATTTTTTCCAC
ATTTATATCTTACTAATAGTAACACAACCATTCCCCATGAACATGCTAAACTTTGAATGT
GTAAATATAAACAATATTGTTGTAATAGTGTTTTTATACTGTCAGCTATACTGGGTGTAA
GTCCAAATGCAGCAATACACCAATCGCAACACGTTGATTTATTACTTTTAAATGGTCTTA
CTAATTCTGTAAAACTCACCCCGT
Sequence 3157
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AACTGCATAGTGGGCGGCACCCTGCAATCCTCGGACCCCGTCCTACTGCCCTTGGTAGGG
TGTGGGAAGTTACCCAGACAGAAACAGGAAAAGTATAGGAAGTTCCTTCCCAGGAACATA
GGCATTGGAGGACATAATTTCCCTCTTAGATCCCTGGATTGTGGTTCAGAAATGTCCACA
AGCAAAGGCTTAGAAATAATTTGTGGAAAGTGTGTTTCAGAGCTGACCCAGAAATAATCT
GGTTTGACAGANGCATGAGGGGCACACCTTTGAGAGTATACTTCTTACCTTATTTC
Sequence 3158
TCCGNTTAACTGGACGGTCCTGGGGCCATCANAGTAAGAGTGAAGGGAAGAGCTTTTTTT
TTTTTTTNTNTNNCGGNTGCCACTCTGACTGAAGAAGCTGACAGCAGGGGCAGAGGGGCT
CTGGGACACTGCTGTGTGGACTCTGGGTTAAGGGCGTGAAGAGGCTGGTGCTGTGGGATT
CGGCTCGATGAATGAAGCACTTTATGGACTGCGGGAATCAGTTACTGCCACACCCAATAA
ACTGGAAGTGTTTACAAAAAAAANANNCNNAAAAANNAA
Sequence 3159
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAANATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTTGTCTCAGGTTAAAATACCAAAAACTATTACAGGGTCTAC
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GTGTCTACATACACATCATTAATACTATTGGNATTACTATT
Sequence 3160
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TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT

TABLE 1A
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TGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTG
TGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGTAGCCTCTG
CGTTTAGGTGTTTTATTGTATATATTGTATTTGTTTATATACCATTATTTTTAATACATA
CACATGCACGCTTTTTAATTACATAATGTATATGTACATAATGTAATTGNTACATATAAT
TGNCGTATACCATAACTTACTATTTTTTCTTTTTTATTTNTATATATAATNNTTTTTGGG
TTGGGTTGGTTGTT
Sequence 3161
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATTCCCTCTCTCTCCCACCAGTTGCTAGTT
TGTTGATATGAGAGGAGCCTTTTGTGAGAAGGGAAGGTTGATAAACTAAATGAAGAGTTT
ACTCACACTAGAAATTGTTATTTGGAGGAGTTTTTGTAATCATATTTAAATACCATTCAA
AACCTAACAGTTTGGTTGAGTAGTTATAAAATGTATACTGTGGGAGTATCTGAAAGGGAT
ATCTAACACACAGTTGTTTATCTTTCTTCATTTCTGAGAGGTGTAAGGGTGTGATAAAAG
GAAGATCACTGTAGGTATGAATAAATNCCANNAAAAAAA
Sequence 3162
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACGTAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATGCTGCATCCACAACATTATTGGCCGTGCTT
TTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTC
TGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTC
TGCGTTTAGGTGTTTTATTGTATATATTGTATTTGTTTATATACCATTATTTT
Sequence 3163
CCCTTAGCGTGGTCGNGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG
TCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG
CAACAACTTAGTGGTGTGGCAGGNNTTTCCGGTGTCTGGCTCTGAACTTG
Sequence 3164
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCATT
GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT
GGCAACGTGGCCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT
GCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGT
GTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGC
GTTTAGGTGTTTTATTGNATATATTGGATTTGGTTATATACCATTATTTTTAATACATAC
ACATGCACGCTTTTTAATTACATAATGTATATGTACCTGCC
Sequence 3165
NGTACCTTCATGGTTAAGAACATGCATTTTTTGTCATTGCAATTTTATTCCCAAATCTAT
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TGTGGGTGATACCTGTTCCACAAGACAAATGTGGGCTCAAAGAGACATGCTCTCTGCCCT
TGTAAAGCTTGCAGGGAAGATAGGCAATTGAGTATTTGGTAGATAGGAAGTGTTCTGGGA
GGCCTCTCATATAAGTATGTGAGAGCTCTCATATAGGGGATAAAGGAAGTCACACCTCAC
ACCAAGACCTGA
Sequence 3166
CCCTATGAGCGGCCGCCCGGGCAGGTACTAGCAGTAGTTAAAATTACTGAGATATTTTCA
ATGAACCTTCAAAAAAGACCAACAAATCTATTTTTCTGTCCAATGTAATTTTGATACTTA
AGTTTATAACTGTGTTAAGATTAAGTCAAACTCCTTAGAAATGTTCAGAGAAATATTAGT
CTATATTTCTTATATTGCTCAAGTTCTATTTCTATAAGTGATAAATTATACAAAATCAGA
TATATGGCTCAGCCTGCAGAAGTTTAAGAAAAATGTTTAAACTAATTTTCATCTTTATTA
AGCTTTCCCTTAAGCAAAGATGA
Sequence 3167

TABLE 1A
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CCCTTAGCGTGGTCGCGGCCGAGGTACCGTGCTATTAAATTATCAGTCCTGTTGAATGAT
AGAGATTAAAGATTTATTTTTCCAAGTGTCATATTATAAATGTTGCTTAAAACTAAGCAT
AATTCTTGGGAAAAAAGTGAGCAAATGTGTCTGTGTAATCACATTTAACAATTAAGTTAT
GTAAAATCTCATTACTAAAGCCATTAGCTAAATAAGCAAATTTGATTAGGAAATTTGGAT
TAATGCAAAGTTCAAATATGACTGCAACCAATGTTGGTTCATTACAGTTTGCAAATTTCA
AATGCATAAATAAACCCTTAGGAAAAAATG
Sequence 3168
CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG
TCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG
CAACAACTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT
AGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGACTTTGGTATGGGTCGCGGCGGTGTG
GTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATCA
GCCATGGTAGATTATGG
Sequence 3169
CCCTTAGCGTGGTCGCGGCCCGAGGTACAAATATTTGGCAAAGGAATGAAAAANGTTAGA
AAGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCATGATACTTACAATCTAGGTCAGAGGT
TCCTAAATCCTTCTCAATGCCCGTTTGCACTGGCCCTGAGGAAAGTGTGAAAATGAAGAC
TATTGTAAGAGGTCTTACATGAAGCTAAATTTGTTCATTTATATCACTTCTCTTTTATTA
TGACATTATGTCCTCTGCAGNTNNTTGGTATTAAAATGTCTTTTATGNAAAGGATANTAA
NAAGTAGATAGTACTCTTTTTTGTGGAAAAAAAAAAAAAAAAAGTCCT
Sequence 3170
ACGCGGGCATTTGCCAGTCCCTGTGGACTTAGGCCAGATAGTATAAATAATAGTCACAAA
AGGAGTATGAATGGGATAAGAAGCCACTTCTAGTCTGAGACAATTAAGAGTAGTAGTGCC
TTCTCTGCACTCTCACCCCTCATTCTGACAGCTGAAGTGAAGGACTCCCAACTTCTGGAA
CTGCCCAATGAAAGTAGCCTTGTGTGAGTGTTAGCTGGCCTGCTTTGGTCTGGGATGCAA
GTAGAAATAAACTCCTGTCATATTAAGCCACTAAGACTTTAGGGATATGTTGCTGTAGCA
TAGCCTAATGTAGCCTGATTACTGAACGAGCCACCCCATCAACTGAATCTATGTGTATAC
TAAAAACATTTTAAGATACACAAGGTCTCAAAGAGTTCACTCGATGCACACTTTTTCTCA
AGAAGCTCTAGANGATGTGCTCCACAAAAAATAAAGGTATAAATTGTGAAAGAAGAAAAC
ATAGGATTTAGGAATCAAGGGG
Sequence 3171
CCCTTAGCGTGGTCGCGGCCGAGGTACCATATGCGTGGAACAGAGAAACAAAGCAAGCCA
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ATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGATGAAACCCCATCTCTAC
TTAAAATACAAAAATTAGCTGGGCATGGCGTTGAGCATCTGTAGTGACAGCTACTCG
Sequence 3172
CCCTTAGCGTGGTCGCGGCCGAGGTACTTCAGCCTGGGCGGCAGAACAAGACCCTGTCTC
AGAAATAATAATAATAATAAATTTTGTTATAACAAGAAAGAGCAATCAATACAGAAAAAG
CAGGACAATTTAAATGTGGAAAAAACCAGAAAGATGAAAATATTAATGGGCCAAACTTGC
CAGTTAGAGGAGTGTGAGATTTGAGTTTAAAAGGAAAACAACTTCTAGGCCAGGCACAGT
GGTTCATGCCTATAATCCCAGTGCTTTGGGAGGTCAAAGCAGGAGGACCAGTTGAGGCTG
GGAATTCAAGAGCTACACAGGCAACATAGCAAGACCTTGTCCCAAAAAAAAAA
Sequence 3173
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGCGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCCTTGCTTTTGTGTGCTTTT
Sequence 3174

TABLE 1A
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CCCTTAGCGTGGTCGCGGCCGAGGTACATGATTCTACACTGAATCTGCATTTCACTCCCA
TATCTATACCAGAAGGTTATCAGTGGAAGAGAAATTCAGTTATCTGAATGGACATGATCT
TCTCAGGAGCAGTCAGTGGTTAATTGGGACAAGAAAACACAAGTCATTATCATTGAGAAA
TCTGAAGCAAATTGAGGCAGGTTGTCACCTTTCACCAGGAAACAAATTAGCCCTGTCTTT
AAAAAGACTTCTTTCTCTCTCTGCTGACTGGGGATTCCTGTCAACTGCCAATGAAATAGG
GAGAGTGTAGATTAATGGCACTGTAACAGTGGCCATGAAACAACCATAAAGCCGTTTTCT
AATTTTTATGAATATTTTTAATTGATTCGACCAGTGTGTTTGAATGACAAAATTTGTGCT
AAGCTTCAGCTCCGGAAAATCAGGGTGCCATCTTCCAGCTGAAATCAGTAGGTGCACCAG
TCTGTTTGGGGAAAGTTCTGTGTATAAAGAAAAAGCCATAAAATACCGACAAAGTANCTC
TTCCTNTTGGCTAATTTACCTT

Sequence 3175
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGT

Sequence 3176
CCCTTAGCGTGGTCGCGGCCGAGGTACATTCTTACAACTTGGAGGATAAGGACTACACAC
ATTCATCTACCCATACACACAGTGAAACACATGTGTNGCTTAAATAAAACAGACATTCTC
CAAGGATTTCTCCAATTATAATAATTGATTGGGCTTCAAAAACTCAAGGTTGAATTTCAG
CTTCTAACTTGATGAGAATGGCTGTCTTAATTCTGTCATTTTTTGTTAATTTTACTTCCA
GGAAGTCAGGGCTGTGATTTGAGGCTTTTTTCTCTAAGCTTCTGTGATGGAGATGAATTT
ATTAAAGTGGGGCCATAATGTCTTTTTGAGCAACATTAAAACTGAGTCATCAGAATTAGG
AAGTATCAAGAAGTCAAGATCAATTTTCAAGAACAGGAGCATAAAATTCGAACTCAATCT
GTGTTAACATTAAGAGATTTAGAA

Sequence 3177
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGAGGGCAAGAGAGGAGGTGTCTCCTTAAAAA
GGAAGACAGTAAGGTAACACAATTTATCTAAAGTCAAAAAACTTAAAACGGACCCGGATG
TCAAACCCAGGACTGCCCGAGCACAGGACCTGTATTTTTACTGCTCTGCCTGCCTGCTAG
GCAGCACCGACCCACCAAAACAAAGGATAGCAAGCACCAAATGGACAGTATTTTAAACAG
AAAAAAAATTGAAAACAGCTCACAAGTGTGTATAATAGGTATTCATAGCCATAATGTTTT
AATCAAACAAAAATAAGTTTATTTTCTTTGACTCAAATTATAATTATGTATTATGCGATT
AAGTATGTCAATATTTTACAGAGTTGTAGAAAGAAT

Sequence 3178
NCCCTTACCGTGGTCGCGGCCGAGGTACGCGGGGGTGGCTACAAGTAACTGTGGTGTGGA
AGCAGAGTANAGAGAAAACTTGTTCCTCATTAGAGAGAGAGCCACACTTCTCACTGCACA
CAATGAGAGGCCAAAGATTACCCTTGGACATCCAGATTTTNTATTGTGCCAGGCCTGACN
AAGAGCCTTTTGTGAAGATCATCACTGTTGAAGAGGCAAAGCGCAGGAAGAGCACATGCA
GCTACTATGAAGACGAGGACGAANAGGTGCTGCCTGTCCTACGGCCCCACAGCGCGCTCC
TGGAGAATATGCACATCGAGCAGCTGGCCCGACGCC

Sequence 3179
CCCTTAGCGTGGTCGCGGCCGAGGTACCACAAAAGCAAGTATCAATCAGTCTGCTATCAC
AAGATAAGTTCTGTCCTTGATTAGTCAAGATGAACTCTTTATTTTCAAATCCTATTATTA
ACGTATATAAGGATGGAAGCCTCAAATTTAAAGCCAAAGGATGCTGGCAAACTGACACCC
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CAGAATAGGGAACCCAGAAATAAGACCGCACACCTACAATCATCATCTTTGACAAACCTG
ACAAAAAAACAAGCAATGGGGAATAGATTCCCTGTTTAACAATGGTGCTGGGAGAACTGG
CTAGCCATATGTAGAAAACTGAAACTAGACCCCTTCCTTACATCTTATACAAAAATTAAC
TCAAGATGGATTAAAGACTTAAATGTAAAACCCCAAACTACGAAAAACTTAGAAGAAAAC
CTAGACAATACCATTCAGGACAGAGGCATGGGCAAAGATTTCATGACTAAAAACACCAAA

TABLE 1A

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GCAATGGCACAA

Sequence 3180

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTAGCAGTGTCGTCTACATGGC
ATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTG
AATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTA
CTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTT
TTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTC
TGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTC
TGCGTTTAGGTGTTTTATTGGATATATTGGATTTGGTTATATACCATTATTTTTAATACA
TACACATGCNCGCTTTTTAATT

Sequence 3181

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAGCGCGCGGAAGAAAAACCAGCAAG
AAGGCGGCGGGGGAAGATGGCGGTCCTGGGGTAGAGTTTGCAAGCTTTCTGACTAGGCTA
GTCGAGCAACTATTCGGGTCATGGCGTCAAACTCAACTAAGTCTTTCCTGGCAGATGCCG
GCTATGGCGAACAGGAACTGGATGCCAACTCTGCCCTTATGGAATTGGACAAAGGCCTAA
GATCTGGCAAACTTGGTGAACAGTGTGAAGCAGTTGTTCGCTTTCCCAGACTTTTTCAGA
AGTATCCATTCCCTATT

Sequence 3182

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTATAGGTAACCAGTGTAGGTCATTAGAACA
CAGGCTTCACACTGCATGCTGATCTGCAAAGTGAGGACATACCAGTGACAACTTTGGAAT
CTGCATCCAGCCACAGGTAACAGATGTATTGCACCAGACTCAGATCTAGATTTTGTGATG
ACTATATAATGAACTAGAAGTTCAAATTAGAGAAAGAAACAATTCAAAATCAGAAGAAAG
GTAAAAGCAAGTGGCCACATGATCGCATTAAAAAAGAAAAAGGCAAATATCTCAATAAGT
ACCTGCCCGGGCCGGCCCGCTCNAAAGGGCGAATTCCAGCACACTGN

Sequence 3183

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTAAGGTCATGCACCCGTGTGAGGTCTGTTC
ACAACATCACACGGCAGGACGATCACCTCTCTTGTTCTGGACAATCTGCTCCTTTGGCTA
TAACCTTAAATTTCACTTGGCTTACACGAATACAGTGGAAAGATTAAGAACTCTGGAGTG
CAATGAAAGTGGATTCAGGCCGGGCGCGGTGGTTCTTGCCTGTAATCCCAGTGCTTTGGG
AGGCCGAGGAGGGAGATCACTTGAGGACAGGAATTTCAGACCAGTCTGGGCAACGTAGTG
AGACCC

Sequence 3184

CCCTTANCGTGGTCGCGGCCGAGGTACGCGGGGAGTCATATTGGGGAGATAGTGTTAATT
CTATCGATGTCAGAACTTTAGGCAAGCAAATCTCAACTTACCTATACATAATGTGCTGAT
ATAATGGCTGTTGAAGTAAATAAATATAAAGAAAAGTTCTGCACTTCTTTTGTCCTGATC
AGTGCTTCTCTGGTAAATGTGCTAACCGCAATGATAGTTGAGATTTTAAGGGCTGGGTAA
AATAGCAAAAAACAATGAAAAGGAAACTTGTTTAACAAGTGTGATGACAGCTATGGATCT
GTGATTTAAAGGAAGAAATGTAAATCCCCTTTGAGTTGGATAT

Sequence 3185

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTAATTAGTGTCTTATGATCCTGCCTATAA
TATTTTTGACCGTCATAAGTTACTTTTAAAAATTTTCAAGATCTTCATAATAATGCAGTG
TGTTCTACTGATTGCATTGTCGAATGTCAGCATATATTTGGTTTTTTTGTTGT

Sequence 3186

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAACG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTT
TTGCTTTGCTTTTGT

Sequence 3187

TABLE 1A

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CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGAAGGAGTGTGTGAAGAAAACATTG
ATAAGCCATGCCTATGTGAAAGGAAAACTATATTATATTTCAAGTCATTCCATCCCTAGT
CACTTTTTGATTAGCAGCCTTGGTCTTCTTCAGGACTAACCATTATAGGCAGAGTGTGCA
CAGGTTCCAGATAAAACTGCTCAAAGCAAATGGATTAAAAAAACTGTCCAAGAGAGTCTA
AGAACTTGTTTTATGAAGAGTCTTGGCTCTCCAATGGTGAGTCCCAGTCTGAATTTATTC
AAGACTGAAAGAAGTTGGAGCATGTCTGTGCAAGGGTATTTTTCA

Sequence 3188

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTACTTATAGATCTCCAGCTTACATAACTCAA
ATTTAGTTTGCTTTCTGCGGCATTAACATTTGACTCATTGAATGGCTTATAGTAAAGATG
AAGGTTATTATAATGTAGAAAGCAAATTAAACTGGATTTTAATTTATAAAATCAAGGTGT
TAGAAGAGGTGATTATGGAGGTCTTTTCTGGCCTAATTTTGTGACTGCTGTTGAATTCCA
TGTTACTTGAAAAGAGTATTTCAATAGCAGATAAACAATAGGCATCATACTTTTCATTCT
GAAGCCATTGAAGGTTTACTGCAGAAAAATTATTCTCTAAGCACATGACTGTTATCCAAT
ATCTTAACAAAAAAGGAGGAGATCATTTTCTGGGTTATTTTTTCCTCAGACTTAGTATGC
CAGTGAGGTATCATACTAAATTGTCAATGACACTTTTAAA

Sequence 3189

CCCTTAGCGTGGTCGCGGCCGAGGTATGCGGGCCCTTAAAGACCTAGAGAAAAATATAGT
AAACACATTAGATCTCGCAGGGGAAATGGTAGAAAGTAAATATCTAGGAGAACAATAAAA
TGAAATGTAAATAATTACAGTGCCAAATTATACTTTCTACAAAATAATTATATTTCAAAA
ATATTTCCTACATTATTTGGCCATTGTCTCTGCACTTACAGTTTGATTGGTTTCTTTTGC
TTATGTGCAGTATTGAGATAAAGTCAAAGAAAAGTTGGAGGCCGGTCATGGTGGTTCGCA
TCTGTGGTCCCAGCTACTGTGGAGGCTGAGGCAGGAGGATTGCTCAAGCATAGGAGTTTG
AGGCTGCAGTGAGCCATGATTGTGCCAATGCACTCCAGCCTGGGCAACAGAGCAAGACCC
AGTCTCAAAAA

Sequence 3190

CCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCGTCTACATGGCATTG
GACAGGACATAATGTAAAACATAAAAGTGCAATTGTTGCACTTACATATGATAGTGAATG
GCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTGG
ATTTATGTCTATATTGACAAATCTTGATACTGCATCCACAACATTTATTGGCCGTGCTTT
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT
GTGTCTACATACACATCATTA

Sequence 3191

ACTCCCATTCATACCTACCCATCCACTCCCAATTTCAATACAAATTTATATCTCTATAAA
TGACTAAAATACTATTGTGTTGGTTTTTCTTTCTTTTTTTTTTCTTGCTGCCACAACAAAT
TACCACTTACTTAAAGAACATAAGATTAAAGTGATAGATTTTAAAGCATAAAATAAAAAA
AAAAATTATTATCTTACCATTCTGGGGGTCAAACATTCACATGACTTTGGCCAAAATTTA
AATGGGGGTANACNGTGTTCTTTTNTGGAGGATCNGGGGATTTATTTCCTTGCCTTTACA
GCCTCCAAAATTNTGGACTTGAATGGGAGNGACAGGGTTTTTCTTCTGGTAATGAGCATA
GGNGTAGGCTGGTNCAATTAATAGTCACTACATGCAANAAAGCANAATCAAGGGAAATGA
AAANAANCTAGTCCTGTTAACTTCAATTGACACTGAAATATCAAGNCATCTCTGAAGTTG
AATATCCATGAACTTGTCAGGTATATGTCAGGTNTATTGTTGACATTTGTAAAAAAAAAA
ATT

Sequence 3192

CCCTTAGCGGCCGCCCGGGCAGGTACACACGTGCACGCATCTCCCACTCCTGCCTGTCAT
CCTCGTGTCTGTCATTTTCCTGTCTGAGAACCAATGGCAGGGTAGAGTCAGCAGAGGTTC
CTACAGGATTTCAATCCTGACCCTGCTTTTTACCAACCGCGTGACCCTGGGAGGTGTGTT
CAGCTTTGAGCTTCAGTTCCCTCCCCTGTGAAACAGGAGTAATAATTTCTACCTCATGGT
GTTGACATAGGGATTTAAAAAAATGAGATATGCAAGGTGCTTGCGCATAGGGGGGTGTGG
AGGGAAGGGCTCACTAAATGTTACTTCTTCCCCAGAGGCCACTCCAGTCTCACACTANAA
TTGGGGCCAGGAGGTAGGGAAACCAGGAGCAGAGCTTGTGGTTTGTCCCCAGAGTTTCAG
AGGGTCCTTGGGTAAGGGAGGAATCTCCTCCCT

TABLE 1A

Sequence 3193
CCCTTCGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATTAAAAAGCCGTGCATG
TGTATGTATTAAAAATAATGGTATATAAACAAATACAATATATACAATAAAACACCTAAA
CGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGA
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAAT
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGC
CATTCACTATCATATGTAAGTGTAACAATTGCACTTTTATGTTTTACATTATGTCCTGTC
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTAAATCTATATCTT
AAACATTTTAAAGTATTAGCATCACCTTTTAAAT
Sequence 3194
CCCTTACCGTGGTCGNGGCCGAGGTACCTTACATAAAGTATGCACTAAATAAACTGAATA
AAATTGACAATATGCAATGTCAAAGACAAAACATAATGGCAGTATTATACTATATAGAAA
TCTACTTAGAGAGTTAAATAATGTAGTATTGTAAATATGTATCTTTTAATACACAATGTC
ATAAAATGCACGAATACCCATATATTAACCAGACTTTTTCTTAAATGGNCTCACTCTGTT
GCGTAAGCTGGAGTGCAGCAGTGTCATCATAGCTCACTGCAGCCTTGACCTTGCACCTCC
CCAACCCCAAGTTCAAAAGATCCTCTTGACTCAAACCTCCCAAGCAGCTGCCCAGCAAGA
CCAGCTAATTTTTAACTTTTTGTAGANACGGGCCCTTACACCGCTGTCCAGGCTAGTCTT
GAACTCCTGGGCTCAAGAGATCCTCCTGCCTTGGCCTNCTGAAGTGCTGGGATTTCCGGG
ATGAGCCACCACACCCAGCCAATATATGTATTTCAAAAANATTTGTGTTGCACATGACAA
AAACCTAATGNTGGATGGTCACTTTTTTAAAATTAAAAAGAAAAAAAAAA
Sequence 3195
CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG
TCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG
CAACAATTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT
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GTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATCA
GCCATGGTAGATT
Sequence 3196
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GCTGAGCTCAAGTTTTGGAGTGCGCCGAGGCAACATGCCTAAGCAGAGGCCAGAATCCAA
ACCAATCACTGATACAAGTTTCTAGCAGGAGTCTGCTCACCAGTTAGACTCAAAGCAAGA
CTAGAGTTTTCTGAGCAATTAGGCTAAGGAGGAGGCAGGCCAGGGTGCTGGGGTGAGGGT
GGAGAGTAAGGAGAGTGCAGGGCATGTTCTGAGTCTCAATTATTGATTGCAAATCACTTA
GAGATCTTGTAATCAAAGATTGTTTTCTATATCATCAATACAGGCACATATCTAACAGTC
TGGTATTATTGCTGATGGTTTGTCTGGATTATTATAAGACTAGTCAAAATCTAACTCCAA
ACCCTTAAGATATACAATCTATTTCAGTTANGACTGCTGGTTAATGTTGTCTGGCATT
Sequence 3197
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AGCATGAGCTTTATGGGGGATTTCATAAGAGGCCGTCCTCTCCAAAGTCCCCAAATAAAG
CATCTGGGGATGATTCTCCTCAAATTCTCCTCAAATGCAATGTTAACCTTTAAGAAAAAC
CANAAGAAACAAATTTAAAATACCAACA
Sequence 3198
CCCTTCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTTTAA
GATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTGCATGGCATTGGA
CAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGC
AACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTGGAT
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TTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTGTC
TACATACACATCATTAATACTATTGGTATTACTATTGNGGATAACAGCAGCCTCTGCGTT

TABLE 1A
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TAGGTGTTTTATTGGATATATTGGATTTGGTTATATACCATTATTTTTAATACATACACA
TGCACGCTTTTT
Sequence 3199
CATGGNCGGAGCAAAACATCGTCCAGCCGCTAAAAACACTGATGGCCGATGATCCGGATT
ACAGTTTCGATATTCTGGAAGCCCGCTACGCCATTGAAGCCAGCACCGCATGGCATGCGG
CAATGCGCGCCACACCTGGCGACAAAGAAAAGATTCAGCTTTGCTTTGAAGCAACGCTAA
GTGAAGACCCGGATATCGCCTCACAAGCGGACGTTCGTTTTCATCTGGCGATTGCCGAAG
CCTCACATAACATCGTGCTGCTGCAAACCATGCGCGGTTTCTTCGATGTCCTGCAATCCT
CAGTGAAGCATAGCCGTCAGCGGATGTATCTGGTGCCACCGGTTTTTTCACAACTGACCG
AACAACATCAGGCTGTCATTGACGCCATTTTTGCCGGTGATGCTGACGGGGCGCGTAAAG
CAATGATGGCGCACCTTAGTTTTGTTCACACCACCATGAAACGATTCGATGAAGATCAGG
CTCGCCACGCACGGATTACCCGCCTGCCCGGTGAGCATAATGAGCATTCGAGGGAGAAAA
AACGCAT
Sequence 3200
GGTACAACCTTGAGATTACAGATGGTTAGCATAGTTATGTGCTTTTTTGTCTTTGTTTTT
TAATCTTAATCAAAATAAAAGCAACTAAGGAATCAGATTACTGACTCTAAGCTTTTAAAA
AGGAGTGATTTTTTTTAATCAGTGTCCCTCAGTCAGCTAGTGCTATGCCAGCCTGACTTCT
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AAGCAGCTCATGAGAGTGATGGCTCAAGCTGCCATCATTTAACTTGAACTTCTTACTGTC
TTGACTTTATGTTTCCGAAATGATGAGCCAGATACATTTTAAATAAAATTTTTAGAATTA
GAGTTAATTCCAAAAGGATAAAGACACAGTTTTCTGTTAAAACTTGAAGTTACAGAGAAN
GGAAAGTACCT
Sequence 3201
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT
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GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTT
GCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGT
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GTTTAGGTGTTTTATTGGATATATTGGATTTGNTTATATACCATTATTTTTAATACATAC
ACATGCACGCTTTTTAATTACATAATGNATATGTACCTGCCCGGGCGGCCGNTCGAAAGG
GCNAATTCCAGCACACTGGC
Sequence 3202
GGTACAAGAGTATGAAGGAGGCTTAGTGTCTGCGGATATGATACAAATCACACCTTCATT
AAGACTAGAGAATGGAAGTCATACTGGGTGATAGTGTATGAGGGTGGAGAAGACATAGAA
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TCAAGAGCATGCTCTACAATCAGCAACATTTTAGTATCTAGTATCATGTTATCTTTAAGC
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TGGNTTTTTTTGGGGTGGGGGGAANCCGGGGG
Sequence 3203
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
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TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
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TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT

TABLE 1A
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GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT
GCGTTTAGGTGTTTTATTGGATATATTGGATTTGGTTATATACCATTATTTTTAATACAT
ACACATGCACGCTTTTTAATTA

Sequence 3204
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGTGCAATGGTTAATGCATTATTTGAGGTTC
AATTTAATGATGTTTAGTGTATATGATTACAGACTGATACATGCATGCCATGCTGGGTTT
CTGAAAACAAGTGCTTTAGTGGCAGTAGAAAGAAATTTTAACAAGTAACAGATTAAATGT
ATAAGGCTTACAGCACAATGATTAAAAACAAAGGAATACAAACTAAATAGTCGTGAACAC
AATTAGTTTCTCTTCCTGCAGCCACAGTGTGTGTGCTGAAGATATACATAAACTGTTGGA
TTTTTCAGTGTAGTCATAAAACAAAGCTAAGATACAAAAATAGTTGAAAGTCTTTGCAAC
AAAATCTCAATTACAGTATAACCAAATATTAAGCAGAAATTCTTGTACAATATTTCTGAA
ACACTTATGTCTGAAAT

Sequence 3205
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTTCATATTCTCCACCTTTGTTCCTTGCC
CTTTGCCTTCAAAGATATGTAGATGTTCCTTAACTCCAAAAATTATAAAAACAAACAAAA
AAACTTTACCACTGTTCATTATCAAAGTTACTATTCATTTATCCATTCAATATTTAGAGT
AGCTAACAAGACAAAACAAAATAATTGCTGCTTTCGTGGCTTATAGTGGGGAAGGGTGAT
AAACACCATGATGAAGGAGAGAAGAGTGCTATTGTGGGGGCACAAATTATGGGGATCTGA
TCCTTTTTTTTTAAGGGAGGCATCAGGGAAAGTCTCTCTGAGGAAGTAAGGTTGATTCTCA
AAGGACAGATGGCAGAGACCCGGGTTAAGGGGTGGATTGGCACCAGGCTGAAGTCTGGTG
CTCACAAGAAACTAAGTGACAGCATAGGTTGGTATAGTGTGTAAGATCACCTTATTTTCT
TCTTCANGGAATTTTTTGAGAACCTGGNTTATATTTGCATCTTACTCTCATTTTTTCTTG
GGTCCCAGNAACATANTTATTTTCCC

Sequence 3206
CGCCCGGGCAGGTACATAAGTGATTTGGATTACCTATATTATCTCTCTCTTTTTTTTTTT
TAACCATGTGCATGTTTTTCTTTAAAATAGAAATAGTGAAGTTCTGCTTCAGTCAGAACC
TGCATAGGTTAATTAAATGCACGCTTTACTCCAACTCTACAACACTAAAGGACATGAAGG
CTGCAAAACGACTGGGAAGGGCTGCCCCCATACACTCAACTCCTCCAGTTTCTCATGCAT
CCGTCCACCAAGTTTTACCAGACATTTACTATGTGCCAGGTTCTGCACTGGGCACAGGAG
CAGAGGGCCGGTGGAGACACAGTCCCTGCCCCCACAGAGCTCACAGATGGGGCAGGCAGA
AGCCACAGAGGCCGTGGTGGTCACGCTTCGGGAGAAAAGAACCACAAGTCAAAGGGGCAC
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CTNAGTGGGAATAGCCCTGATTGGAAAGAAGAAAG

Sequence 3207
CCCTTCGAGCGGCCGCCCGGGCAGGTACAAAATGGAACCTACATTAATCATCTAAAACGG
CATTATCATAACAGACTTGCCTGAGCCATTACTTACCACAATGAATTGGTATGACACTTC
TAACAAGGTCAGAAAAATCAGATTCTGTTTTCTTAATATTGAGGATCTTTCCCACTTTCC
CTGAGCTAATGAGACACAGGTCTGTGGCAAATACATTTAGTATTTTCCTACACATGAATT
CCTAACAAAACCAAGCAAGAGCATACAAAGGGAAACATACTTTAGCTAATTTAAAGGTGT
CTTATGTTATTTTGCTTATTGAAA

Sequence 3208
CCCTTAGCGTGGTCGCGGCCGAGGTACTATTATTTTCATCCTCTCCATTTTTCAGATAAG
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ACAAAGATTCTAACCCAGGCCGACTGGATCCAGAGCTTGGACTCCTAACAACTAGAGATT
ATTGTTCCTTTCGCAATCCAGCCACATGAACCTCCTTTATATTTAATGCAAAATATGCAT
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ACCTAACCTCACTTTCCCTTGGGCTCCCTCCTATCCATCCTCCAGGATTCTTGGTCAGGG
TCAGCTGCCCCTTCTGTGTGTGCTACCCCATCACCCTGTGCTTCCCCTTCCAGCACTCAG
CACATAAACTGGGTATTTCAACTACAGGTTCTCTGTCACCTCCCACCCTTGACTTGAAAG
CTGCACAAGGACAGGGGCCAAGCTACCCAAGCATTTCTATATCTACAATGNCTGGCAGGC
TTGGCGGGGGGCTCTATCATTACTGNGAAAAGACCAGGATACCTTTATTAAATAAGTGGA

TABLE 1A
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ATAAAATTTGAATAGTT
Sequence 3209
CCCTTTGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT
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TGGCAACGTGACCAATTTTCGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT
TGCTTTGCTTTTGTGTGC
Sequence 3210
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CAGGACAGATATACAAAGCATTTCCATTTTTACAGAAAATGTGTATGGATACCATGGAGG
TTTGAAATAAATGCTGNNTTCATTCAAACTATAGTGAAATACAGCATGTGAAAAAGTAAT
TACTTATTGACTATAATAAATGCTTCATAAAATATAATAGATGCTGATTCTGGCCAAGAT
TGACAAAATCTAATGCAGCCTACATGTCTCAGTGGTTAATACTAAGACTCTGAATAAAAT
ACAAGCAAATAAACACCTTTGAGGACTTTGAACAGTAAATAACAGAGGGCGGGTTTAAGG
GTAATCAAAACTTGAAGAAACATCTATATGGTAGTGGTGAATTTATTATATTTTTCTTGC
TTATCTCCTANGCTGTGACCTAAAGACTATCTNAATGGGAAAATGTGTAACAGGCAAATT
TAGCAAAACCTATGGGGAACCACATATTTCTTGGCTATAGGGCAAAGAGAAAGGCCCTAT
ACTAGCAGGAGAAAATAGGAAGAAACCTTTT
Sequence 3211
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
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TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGGCCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT
GCGTTTAGGTGTTTTATTGNATATATTGGATTTGGTTATATACCATTATTTTTAATACAT
ACACATGCACGCTTTTTAAT
Sequence 3212
CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGTAATTGATTGGGCTTCAAAAACTCAAG
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ACTCAATCTGGTGGTTACCATTAAGAAGATTTAGAAGCTCATTCAGACTGATAACTAACG
AATAAATATAGCTTTCATTTGTTGGAGACTTTATGTGAGCCAGCCAGTTATACATGTTAT
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AATTGAGGCTAAGAAAATATGCCATTTAACTTTTGCTGCATAACAAAACTACCCCAAAAA
GCTAATGGGTTTA
Sequence 3213
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TGGCATTGNACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGAT
AGTGAATGGCAACGTGACCAATTTTCNTCTCAAGTTAAAATACCAAAAACTATTACAGTG
TCTACTGGATTTATGTCTATATGACAAATCTTGATACTGNATCCACAACATTACTGGCGT
GCTTATTGCTTTGCNTTTGTGTGCTTGTGTGTGTCTGCCTATTAATACNTTNCGCTGCTT
TTGTCTGTGTTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGC
AGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGGATTTNTTTATATACCATTATTTTT
AATACATACACATGCA
Sequence 3214
CCCTTAGCGNGCGCCCGGNCANGNACNNATTCTAGGTGGCCTTATTTACATAATAGATTG

TABLE 1A

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GTGGTGTTTACATTTAACTAATGAGTTTNCATTTNACNAAAACNNAAATCCAGTGTNTGA
NCTNAATGATAANAACTGGAAATGCTTTTTCTCAAGGACGTGGTCNATNATNTAAGTTTG
CACNANGACGAGGACAAGGAAAACGATGGAGACTCTTTGCCAACGTTTAAATGTGTGTCA
GGACAAAATACTAACACATTATGAAAATGATAGTACCTNGGNCGNGACCACGCTAAGGG

Sequence 3215

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGNGGATAACAGCAGCCTCT
GCGTTTAGGTGTTTTATTGGATATATTGGATTTTGGTTATATACCATT

Sequence 3216

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAATATTTGGCAAAGGAATGAAAAAAGTTAG
CAAGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCAAGATACTTACAATCTAGGTCAGAGG
TTCCTAAATCCTTCTCAATGCCGTTTGCACTGGCCCTGAGGAAAGTGTGAAAATGAAGAC
TATTGTAGAGTCTTACATGAAGCTAAATTTGTTCATTTATATCACTTCTCTTTTATTATG
AGATTATGTCCTCTGCAGTTTTTTGGTATTAAAATGTCTTTTATGAAAGGATAGTAAGAG
TTTAGATAAGT

Sequence 3217

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTACATATTGCAAAAGCTATCTTCCTTCTAT
ACATGAGGCTGTCAGCTGAATAGTCTTGGAAGAGTGAGGAGTGAATTTTTCTGCTGGCAA
CTCGGTTAGTTTTAGCAGTTGGTGCTAAAACTTGGCAAAGTTTTCACCAAATACATGGAA
GATATACAAAAATAGAGGGGGCATGTAAAAGAAAAACNTTGACATANTCTGAGC

Sequence 3218

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAAACAGGCCAAATGTTGCCTTTGGGGTTC
CTGTTTCAACAGCATGGTGTGAAGCGCTGCATCAACCTTCTCTGCCTCATCCTGCAAGGT
GGCAAATTCCTCAAGAATATGACCAAGCTTATCTCTCTGTCGAGCCCTGTTATGTCCATG
GATCTGAATAAGACTACAGAATGGCCGAACACAGTGAGTAACAAAGGAGTCGATACAGTC
CTTAGCCTGGTGATTATTATATAGGTAGCACTTGGGGGAAAGCACCGGAGGACTGACAAA
AGACCGAAGTGCATCTTTCACCATGTCTTGTATGAGATGAGTTCCAAAGACCTTTTTGTT
ATCCACCAGGAAAGTGGTTTGTAACAGAGATCTTGAAAGAACACGTGGTGACTGTTCACT
AAATTCACAGAAAAAAATCCAGGATACAATGTAAATTTGTTAAATTCACAACCTCACAGA
CAGGTTTTATTCTATCTATTAATCTTGCAAAATAGTTCACCATTTCTTCCCTTTTAATTA
TTTTTTGCATATCGAGGGAANGTAGGTGGAAGTAGCCTCTGGTTCACAANGGGTTCAAAA
CC

Sequence 3219

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTACTACTATTGCTACTATTACTTATAATAG
AACACTTGATACTGAACAGTATCTTTGGATACTGACATAGGGTGATCATTATTGAATTAT
TTAAACATTCATCTGCTTAAAGATTAGATGCTTTCTTACGCAATTTTTCAACATACCTTC
CAGTTCATTTTATCACTCTGTTACTTTAGAGGAAGCACTGTGGTCATTAGTTCTTACTCT
ATCAAAATGATATTTAACTCTCAGATACCTCAGTCAGAGCCTGATCCTTACTATAATTGA
AATAAAAATTATTGAGCCTCTTCTGTATTTTATACTAGAGACCTTGCCCTGCATTGCCAG
GGAAAATCATTAACCACTGCAAAATTTAA

Sequence 3220

CCCTTAGCGTGGTCGCGGCCCGAGGTACCATATTTCAGATATTGGCACATTCGGCTTGTA
TAAGGGGAGACGCTTTTTTGCAGTTGGACGGCCATTGAAGACAAGTTGGTCACCCCAAGT
TTTCTTTCCAGTTCTTCTGAAAAACTCACTAAAGAAAAAGAAAGCAAGAAATACAGAAAA
GTATAGAAAAATAATCCATATTCCCACCACCTAGGATTAAGTTGTTAACAAGATGAAAAC
TTCATACTGAAAAACCACCCTTTCTAGAGGCGATTTACCACTTATTCCTTGCCTTTCAAA

TABLE 1A
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ATATTTACTTTTCAAGGTAATCTCTCCTTATTAATTTGAAAAAAAAATGTTTCTTTTAAA
TAGAGATTGTTAACTTGGGGTCTGGCTAGGCTGTGAATCCTCTGATATTAAACAAAAGAT
TTTGGTTGAAGGNGCTTATAAGGCTTTATTTTTCTTCCTTTCTGCTCTAGCCCCATATGT
GCAGGGATTTTCATTAGATCCTCAAAGAGTTCTGTNACCCCCACCCTCTCCCTTCTACCT
TGNTACTTTTGAAACATTCTCCTACAGATTTAGTGGGGGAAAT
Sequence 3221
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTAACGGAAATTTTATCATTGCTTT
AAAATGTATTTTAATGAAGATATTAAAAAATACCTTTGATGGATTCTTCAATATTGTCGA
ACTGCTCAAAATGATTATACTGTTATATGAAGTCTAAAATCTTTCATGCAACTTACAAGA
ATATTTTTGTTGNATGCACCACAGTTGGAAAATTCTAGTGGGACCATGTCCATGCAATTA
CTGATTATGTAATGCTGTAAATTTTTGATAAGCATGTTCCAAGTTTTCCTGTTCTAAAAA
CAAAAACATTAAAATCACCCACTGNTGAAGACAAAAGATCATTACTTTATTAGGAGANAT
TATTAGATATGTTTTAGAAACTAGTTT
Sequence 3222
GAGGTACCAATAAATGAGTATTACATGTTAATATAANATGATGTAGCTCTTCAGCCACAG
GGGTATAAACCTGGCTAGCATGACACACCAGANCTCTGCTCATTGNTGTTNGNTCATTNG
TTTGNTTTTTTGAAATAGTNTCGCTNTGTCACCCANGTTGAAGTGCANTGGCACAATCTT
GGCTCACTACAACACCTGCCTCCCCAGTTCCAGCAATTCTCATGCCTCAGCCTCCCGAGT
AGCTATGANTACGGGCACATGCCACCANCCCTGGCTNATNNTTNTNTTTTTANTAGGGAC
GANTTTCNTCATGTTNCCCANGCTGGTCTTGAANTCCTGGCCTNAAGTGATNCACCCACC
TTGGCCTCCCAAAATGCTGGGATTGCAAGTGTGAGTCANTGGCCCCCNGTAACATTGTTA
ATGTTCATTTTTCAGGCTCCNTTNAAATGATTCATTAGANTGCTAAAATAGAACTCAGGG
CATTTGATTTCCATAGTTTAAAATAA
Sequence 3223
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCANAAGGAGAAATAGAAAATTTAAGGACAG
GCAAAGATACTGGATCTGGATAAAATATTTAAGTTTGAACTTTATATATTGAATTCTTCG
TTCTATAGAGACTATGCTTTTCTATGCAACAAGCCAAGGAACATTAAAAAAATTGGTCAT
GTAATTTACATTGCACAATATGGAGATTGTGCGTTGCTTTAAAACTATTGTTAGCGTCTG
GGAACAGATAACCTGAGGTCAGGAGTTCGAGAGCAGCCTGGACAAAATAGCGAAACCATG
TCTCTACTAGAAATACAAAATCAGCTGGGTGTGGTGGCATGGACCTGTAGTCCCANATAC
TCAGGAGGCTGAGGCAGGANAAGCACTTGAACCTGGGAGGCGGA
Sequence 3224
ACTCCTATAGGGAGTCGACCCCGCGTCCGCTGTGCCCTCTGTTGTTGGATCCCAGGCATG
AAAACTTTGTGCTTTTTAGCCCCAAGTTAAGTCTGAATGGTCATCTTATTCTGTGATAGG
TAAGTATGACTGAGTCGGGGTGATTTGGCGTGGGCCTTGGGTGGTAGAAGAAACATCTTT
AGGGCTTATAAAATGTTCTACAATATTTGTCAGCACCCATGAATTTGAGTACTGCATCGA
ATAGAGTAGAGCTCTCAACAGTATGTTTGAAATGATCCAGAAGGATATTATAAACTATTC
AGATATTCACAATGGCAATCTATCTCAGAGAGGCGATCATTTGCATATGTTGATCAAATT
AGCATCTGATGCTCATAAATAATGGAATGACATTAGGTTTAATAAGTAATTTTTAAAGAG
AAGTGCTGACAGGTCATTGGGGTTATAAAGAAAACCAAAATAGGTACCAGGCCCTGTGCA
GTTTATCAGACATTCGACCTCGTTCATCAAGTTTTTCAGAAGACAGTACCACCATTGTGA
GTTTTCTTACCAATTTGCTTAGCTTCCACAATTTCCTCGTTTGNATTCCTCCATAATACA
ATTATCAGCTTGGGGAGGAGGATGTACATTAAGATCNTCTTAGATCCATGGAGAATTAAA
Sequence 3225
CCCTTAGCGGCCGCCCGGGCAGGTACAGATTCTAGGTGGCCTTATTTACATAATAGATTG
GTGGTGTTTACATTTCCTAATGAGTTTCCATTTGACGAAAACGGAAATCCAGTGTATGAG
CTTAATGATAAGAACTGGAAATCCTTTTTCTCAAGGACGTGGTCCAGATTAAGTTTGCAC
CGAGGACGAGGACAAGGAAAACGATGGAGACTCTTTGCCAACGTTTAAATGTGTGTCAGG
ACAAAATACTAACACATTATGAAAATGATAGTACCTCGGCCGCGACCACCGCTAAGGG
Sequence 3226
AGGTGTCGACCCACGCGTCCGCACAGTTGGAAGGGAAAAACTGACATCATTGCTCTGATG

TABLE 1A

GTAAAAAGTATCCTGTGGCTCTCAAGGCCTGCAGCATCAGGGGCAAGCGAGGAGGGCGGG
CCTCGCATTTCTCAAGCTTTTCACTGCAGGCTAACACTGGGAAATCGCCCTTGATCGGTT
TGCTTTGTTACCTGCCCGG

Sequence 3227

CCCTTTGAGCGGCCGCCCGGGCAGGTCCTGAGCCACGATTTGTTCTCTCAACACTCTCCA
GGCTGTCAGAAAAGAGATAGAAACTCACCAAGGCCAAGAAATGCTTGTGCGTGGCACAGA
AGGAATCAAAGAGTACTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAAAAAAATTTTTTTTN
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AANCAAAACCGGGGAACCCAAAACCNTTTTNCAANGNNGGGGCCNTTNCNCCNTTNAAAA
AAAAAANGGTTTTAAAAGTTNTTTTTCCCNTTNGGNAAANNAANNNNAAATTTTNANCGG
GNCCNTNNTTTTTTTTTAAA

Sequence 3228

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGAATTGCATCCTTCCATAGTGTAAATAATAA
TCAAACATAAACATGTTCAATTACTGATATTTTAGTCCAATGTTTTTTGTTTCAATTACA
TATCTTTTTGCATCCTACCTATTATACATAAACTAACATCAAAATGAAAACTCCATTTAA
GAAAGAGCATAAGGAAATGACCCCCAAATTGTACTTTTTTTTTTTTTTTTTTTTTGGTTT
TTTTAAATGAGAACTCAATTTTATTTACATCTATTTATTTCCATTCAGTGTATCACATCT
TCAGGATAGGTAATAACAGTGTGAAGGGTGTGCTCATTTTCTTCAGCTGTGAGTAGAGGA
GTCTTCCCGAGAGTAGCAGTTGTTGATCCAAATGATTGAAGCCTTCAGGTAAGGGAATAA
CTGCTGCAGGAATTCTTTCTTGAAGAATTTAAGCTGTTTGGTAGGAATTCTGTAACTACA
TACCTTTGAAACACTATTCACATTCAAATAAAACGCTTGTTTTCTAGCCAGGCACAGGCT
CAATTAGTTTTTCAAACTCTAGCCAANGCAGTATTTCATTTGGGAAATCATGCAACAGAA
CTGCTCAATTCTTAACTTCTTCTGCTGTTAACATTTACACTTAGACTGGNCAGCAACCAG
TTAACTTAAAATTTTGGCCTCAAGGGGACAAAAAAAA

Sequence 3229

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GGGTCTCACTCTGTGTCCAGGCTGGAGTGCAACTGCACGATCATAGCCCACTGCGGCCCC
AACCTCCCAGGCTCAAGCCATCATCCCACCTCAGCCTCCCAAGTCACTGANACTACAGGT
ATGTGCCACCACACCTGGCTACTTTTTAAATTTTTTGTAAANAACCCGCGTACTTTTACC
TACAAAGAGGCTTTTTACCCANAATGCTCCTGCACACACTTTGCTGCTTCTTAAGGTGCA
TTTTACCTGAANACTCCANAGTGGAGTGGATTAATAT

Sequence 3230

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCACTCCTCTTCTCAGAACTNGATCAAG
ATGTTATTCACAGGTAACANTNNCCTGTTTTGGGTTNCTCTTTCCTCCCTGGCTCTACAT
GTCTCATGGTCAAAAGAACTTGGAAGCAAAGACTTAGCCATCTACCATGGCCAAGCAAAG
GAACCTGCATAACCCCCAATA

Sequence 3231

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAAT
GTTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGC
ATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTG
AATGGCAACGTGACCAATTTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCT
ACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCT
TTTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGT
CTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCT
CTGCGTTTAGGTGTTTTATTGNATATATTGNATTTGTTTATATACCATTATTTTTAATAC
ATACACATGCACGCTTTTTAATTACATAA

Sequence 3232

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTAGCAGTGTCGTCTACATGGC
ATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTG

TABLE 1A
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AATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTA
CTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTT
TTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTC
TGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTC
TGCGTTTAGGTGTTTTATTGGATATATTGGATTTGGNTATATACCATTATTTTTAATACA
TACACATGCACGCTTTTT

Sequence 3233
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTAACTTACATAAAAAAGGCCCTGTTATAAA
TCAAAGAACTTAATTTCAGTATTGCATTCAATGGCTCCACACACAGAAAGCTCTTTTGGT
TTGTAAAAGGGATAAAGTAGACTTCTAAGATTATTTTAAGTAATATATTCTATGTGCTTT
TATGGCACGGCCCAAACAAAAGAACTCCTAGATGGTTTCTGGGAACTGTTTGTTAATTTA
CCATTCCAGGATGAAACAATCAGATTGCTCCACCTCAATAAAATGGCCTTTCACACACAT
CATCCTTGCAGGACACTCTGCCCAAATTATTTAACCTTTGAACACAAGAACCTACCCTGA
GGTTGCTTGAGATTAAATGGAATAAATATGGA

Sequence 3234
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCATACATAGCTCACTGAAGCCTTGAACTCC
TGAGGTCAAGTTATCTTCCTGCCTCAGCAATTCTTGTTATACGTAATATAGACTAAAGCG
CCTGCCCTAGAAATTTATCTTCAAAAATGAAACAAAATAGAACAAAGGTTGTGATTTTAG
TTTATCTAAAATGTGGAGTTTCCTTCCTCTTGCCACCAGATCAGAGAAAAAATTTTGTAA
TGATATAAGTTGATTGAGATTTTTTATGGCATTTTGCGTAGGAATATATATTGCACAACT
AGGCAAGTTATCCACATTTATTATCCCTGAACTTTGAATTATAATTTTACATATGATGAG
GCTGGCTAAACTTTAATGGGTATTTTTTATTTTAGAAACCTAGTAAATACATATTTACAT
TTGTAATTACTTGCTGTAATCTTACATTGAATCAAGTTGTATTCTGTTTCGTGTATTGTG
TCCCCCCCCCCCCTTTTTTTAATAAAGGAAGCACTGTGACTGTTTTTATTTTAAAAGACT
TTTTTTTTT

Sequence 3235
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATCTTTTATATGCTCATATGCTCCTGTAG
TCGTTAGTTTTAATTCTTAAAAATGTGATAATTGTAATAAACTTTTATTATATCTTATGT
AAAATAATTGTGTGTCTGAGAGAGACTAAAACTCATGCCCTACTTCTCATGATTTCTCTT
TCTCTTTTGTTTCCCTTTCACAGACAGAAGAATTATAGCCTCAGTATTTATGTATATTTT
TGAAAGAGTGAAGTGGGGACTGAGAAGGTATATCTACATGCTATGCCTTTTGATAGCATT
CTGTTTCAAATCTCCTTTTCTCATCATTGACTGGAACACAGTTGAAAAAATATTAAACTG
ATTTTGTGACGATGAATTTAGGAATTCCAGTTAGCTAAGGATTAGAAAAACTGATTTTCG
GAGGCATACTCTGATCCAGAATGGGGCTTTAATATTGGATTAT

Sequence 3236
CCCTTTCGAGCGGCCGCCCGGGCAGGNACAGCCAGCTGGGTACTAAACCAGAATTTCCCA
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ACTTAAAGCTCAATTGGTTTGGCCAAGCTAGAAACCTGAAGTCCTCTTANACTCACTCTT
CCCTTTAATGTTGAACAGAGTTAGACCTCAAGGCTTGTTGGTTCTACTTTTTAAAGATTT
CTGAAATCAAGTATCACTTATCCTCACAGTCAGCCTTCGTTTGGAAACTTAATAGCTCTT
ACCTGGATTACAACAGCTTTGTAACTTATTTTTGTCCCAAGGTTCTCACCTGTTGATTCT
GATTTNCATTGTTATAGGAGGGCCATAGGTGGCAGAGATGTTNTTTTCCACAAAGTCNTT
AAATTTATAAGTGATTCTCCCCT

Sequence 3237
CCCTTAGCGTGGTCGCGGCCGAGGCACCCCCAAATAAGCCTCAGTTCCCATATTTAAACT
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TCCAGATGGAGCTAAATTGCTATATGATACAGGGTTTATTTTATATTTCTCATATTAAAG
ATGAAAAAGTGAAAATTGAGTAGTTGACTCAAAATTATATGTATATATATATATATATGT
TAACAGTTGAATACAAACAAGATTACAAGCAGTGAAACATTCAAATAGTTTTGGCAACTC
CAAATATTTTGTGTTTCACAAAAGGAGTTAGGTTAACTTTTCTAAATATAACTCATTTTA
TACTATTTTAATAAGGAGAAACTTAAGGATGAGAAGGCATGAGGAAAAGTTACATTAGTG

TABLE 1A
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AAAGCTATATACTAAAGCAGACCTTCAACAACAGCTCATAACTAATAAATGCTTTGTATT
TTGNTTTCAAGCAGTTATGTAAATCAATTTGGTGATTTCTTACACTGTACCTGCCCGGGC
GGCCGN
Sequence 3238
ACTGCTGATCTATTCCCTTAGTCAACAAGTAAATTATTTTTATTGTCAGTTTGGCTTGGT
TGATCTGTCCTTGCAGCCTAAGTGATGCATGAGCGAATGGAGAAATGAACTAGTTGCTAC
ATAGAAGCTTGAGGTCAGGTTGAAATTAGGGGCTCAAACTAGATATGAAACCCAGGGCAT
GGAAATGGTCACAGTGCCTCTTGAATAAGAAGCGCTACTTCAAATTGGAATGTTGATGTA
ACAGAATCAAGAGATAGTATTCTCAGGGCTTGGTCAGCAAGGTCTGAAGGTTCAAAATGT
GGCTGTGTTGTAAACTACTGAGAAAGCCAGTGGGGAGAAGAGATTTCCCTAAGACAGTCT
GACAACTATGTTCCGTCTCATGCTAGAGATACCTGGCTGCTAGTCAAAGGCCTTCC
Sequence 3239
CCCTTCGGCCGCCCGGGCAGGTACGCGGGGTGGTAAAACTCATTGCAGCGTTGAAGAACT
TAACTGACGTTTCACCAGATTTGGACATCAGGCTGAAGATGGAAGAATCCCAGAAGGAAC
TTGAATCATATATGATGAGGGCTCAGCAGTTACTGGGGCAAAGAGAGAGCCCCGGTGAAC
TCATTTCAAAACACAAGGAAGCACTAATAATTTNTAATACAAAAAGTCTGGCCAAGTATT
TGAAAGCTGTTGAAGAACTAAAAAATAATGTAACTGAGGACATAAAGATGTCTTTAGAAG
AAAAGAGTAGAGATGTCTGTGCCAAATGGGAGTCTCTTCATCATGAACTGTCTTTATATG
TTCAACAACTAAAAATAGATATTGAAAAAGGAAAGCTTAGTGACAATATTTTAAAACT
Sequence 3240
CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAGTGTCGTCTACATGGCATTGGACAGGACA
TAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGCAACGTGA
CCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTGGATTTATGTC
TATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTTGCTTTGCTTT
TGTGTGCCTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTGTCTACATAC
ACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGCGTTTAGGTGT
TTTATTGTATATATTGGATTTGNTTATATACCATTATTTTTAATACATACACATACACGC
TTTTTAATTACATAATGTATATGTACCTGCCCGGGCGGCCGNTCGAAGGGCGAA
Sequence 3241
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCATT
GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT
GGCAACGTGGCCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT
GCTTTGCTTTTGTGTGCTTTT
Sequence 3242
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCNGTGCTT
TTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTNCCGCTGCTTNTGT
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CTGCGTTTAGGTGTTTTATTGAATATATTGAATTTGNTTATATACCATTATTTTTA
Sequence 3243
CCCTTAGCGTGGTCNCGGCCGAGGACCCCATGGCTGTTGTGGCTTCTGACANAGGAGGCA
GGAATGTGGTGGCTGGCTTGGGAGTTGTAGGAGGCTCATCTGGACCAGGTTCATTGTAAC
CGTTAAGGTANAGGCTGTCTTTGTCCANANAGTAGGGGCCCACCCGGGTGATGCCTNNCT
CTGCTGGCTCAGCTCATGGAACACCTGCTTGATAGGCAGACCTGGGCCGCTGAGGGGCTG
Sequence 3244
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCATTAATCCTCTAGAACATGCATTTACTCT

TABLE 1A

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ATATTACAGCTTTGCATGCAATAACTAGTTGTGTTTCCTCAATGATGTCACCTTGAAGTG
GCTTTTATTTTTCTTATTTCACTGATGAGAGATGTGAGGGTTACCTGAGGGACATATCAA
GTGGTCAAACCACTATTCAGTAGCTATCCTTCTTACTTTAAAACTCCGTGGTCTGCTCAA
AACCGTCTTGCTAAGTAAATATGCTAAAAATGAGTTCTCTTTCTGTTACTGGACCTCTTA
TCTTGGTCCTTGGTTAATTTTCCCTCAT

Sequence 3245

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACAGTTCAGTCCATACCAGGGCTGAATGGGG
AATGATCTGCATGTATAACAGGGAAATTTTGAGGTATTTAAGTGACATACACTTTGTGAA
TGTGCTTTGAAATATCCAAAGTGTCACATAATTATAATATAAGCTGCTATCATGAGCTAA
TTTCTTGTTTTTTCTTTTCTTTTCTTTTCTTTTTTCTTTTTCTTTTTTTTTTTTT

Sequence 3246

CGTGGTCGCGGCCGAGGTACNCGGGGTAGGTTAAGAATGTGGATGGGTTTCCATTGCATA
GATTCAAGGTTTGCTATCACAGAAAAAAGAAGCTAGTGCTTCTATCTTACTAAATTGGAA
AATTATTTTTCTCATTGTTCATTCTATCAGNGCCCCCTTTCCCCTCTGTATTTATATAGC
ACGGGAATGTATAGTTTCTATCAAATAAATCATTAGAAAGGCAATGTTCAGGCCGGACAT
GGTGGCTCACGCCTGTAATCCCACACTTGGGGAGGCCGAGGCGGGCAGATCGTGAGGTCA
GGAGATCACCGACCATCCTGGCTAACACGGNGAAACCCCGTCTCTACTAAAAATACAAAA
AATTAG

Sequence 3247

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTGGAAATCAATGGTAAGAAAAAAAATGGACA
GGTCATCTAATATGTAAACAATTTAACTTTGATGTAATCTCTTGTTTGCTGGATTTGGTC
CTGGGGAAAGTCAAANGACTNTCTTATTTACTTAGTTGAATCTCTCACCTTTTCTCTGTC
TTCTCATTTAACTTCTCTTCTCTTACCTTGCANAGCATTTTGATGATGAGTCCAGCTNAA
AATAGTGTTGTGTCANGAATTCAGACTTACGGCCTAACCCTTTTTCTTGTGGGGAAATCT
TTANGTGTATAGGACTGTGCTAATGGTGA

Sequence 3248

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATTAAAAAGCGTGCATG
TGTATGTATTAAAAATAATGGTATATAAACAAATACAATATATACAATAAAACACCTAAA
CGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGA
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAAT
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGC
CATTCACTATCATATGTAAGTGTAACAATTGCACTTTTATGTTTTACATTATGTCCTGTC
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTAAATCTATATCTT
AAACATTTTAAAGNATTAGCATCACCTTTT

Sequence 3249

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
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ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT
GCGTTTAGGTGTTTTATTGTATATATTGGATTTGGTTATATACCATTATT

Sequence 3250

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTCTGATAGGTTTACGTTTCAGTGAAACCAGT
GCCACTAAGTATGGACATGGATGAAGCATTCAAAATCAGCCAATCTGAATGATGGGGGAA
AAGGGCTAGAAATACAACTGACTTAAGAGAAAACATCACAGTCAAAACAATTGAGTTTTT
CCTCCCCACAATATGAAATTCTATTTTGTCTTCTCTGAAATAAAACATAATTGTTTCAGT
GTTAAAAAAAAAAAAAAAAGCTAAAATGCTTAAGATAATTTCATCTGTGGCTTCATCCTT
ACTCCTTCAACAAAATTCCTGAAGATACAGTGGGAAGATGTTGATAGAAAAGTAACGGTT

TABLE 1A
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AAGGGAACTGCAGCTAGGAAAAGATCCCTGCACAGACTGCAGAGGCCCAGGTGTCCTGAA
GTTGGACATCGAAGGTCATTATCATGTCCTATCAGGAGAGGAGTTCTTTTCAATGTTTCA
CTAATATCAATGTCTACTTGCTTTCCTCATGGGCCAGATTCCCCCAAAAACCACACATCC
TTAAGGATGTCATTTGGTTTATGTTGACAAACCAAATTGNTTTAACATTTCAAAGGATGC
TTTA

Sequence 3251
CCCTTAGCGTGGTCGCGGCCGAGGTACTACTAGTTGTTTCAAGATATACCAAGAAACCTC
AGGTTCTACATAGCTAAAAAAGTTTCTTATATTTTGTTAATGTCAATCAAACCCATTTTT
CACAGGCAAAAATGTGTATTTTCATGCCTTATTTGATAATTCCATGAAAAAATTAAAATA
TTTTANTCAGCATATTAGAAATTTATTCTTGGAGATGCAAATACGTATTTTCAAATTGTA
AGTGTTAAATTGTGGATATAANAATCTTCCCACCTATTTTTTATTTTAACTTAATATTTT
CAAACTTTATAAATATAGATAGGATAATTTGCTTATCTTTTTTTGACAAAGCCATCAAAT
AATCAGTGTTGTGAATAAGGGTATTTCTTTGGAAAACATAAAAGGGGCACAATTAATCAG
CTGTCAACAAGGAAAGGAAACAAAATTGGGTATTTAAATAATTG

Sequence 3252
AAATATTTGGCAAAGGAATGAAAAAAGTTAGAAAGTTGTCTGTCTGTGGGCTAGGCTCTG
CCTGCAAGATACTTACAATCTAGGTCAGAGGTTCCTAAATCCTTCTCAATGCCGTTTGCA
CTGGCCCTGAGGAAAGTGTGAAAATGAAGACTATTGTAGAGTCTTACATGAAGCTAAATT
TGTTCATTTATATCACTTCTCTTTTATTATGAGATTATGTCCTCTGCAGTTTTTTGGTAT
TAAAATGTCTTTTATGAAAGGATAGTAAGAGTTAGATAGTAGTCTTTTTTGTGCAAAANA
AAAANANNNNNNNAATTTTTNGGGNCGNANNCCCCTTTGGGGGNAANTTCCCCCCCNNGG
GGGGGNTTTTTTNGGGGACCCNANCCGGGANCNAAANNNNGGGGGAAAANNGGGGNNNAN
NTGGNTCCCNGGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAAAGGGA
NAGNGAANAANAAATTTNNNNACTCCCCNTTGNAANGAAANNAATNCNNNNGGCTTTTNN
NNGNANNNANNNCNNNCCCCNNAAGGANCCNTTTTTTNNNNAATNNNNNNGGCNNNNNNN
ANNNANNNCNNNANGNGNNNNTNNNNNNNNGGNNNAAAAANNTGGGGNCCCAAANCAACT
TNAAAATNCCTACTTTTTTNAAA

Sequence 3253
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATGGGCCTACGATAATGACATAGTAGACGA
TAGTGAAATTGCATATAAATATGCACAATTGGCAGACACTAATAGTAATGCAAGTGCCTT
TCTAAAAAGTAATTCACAGGCAAAAATTGTAAAGGATTGTGCAACAATGTGTAGACATTA
TAAACGAGCAGAAAAAAAACAAATGAGTATGAGTCAATGGATAAAATATAGATGTGATAG
GGTAGATGATGGAGGTGATTGGAAGCAAATTGTTATGTTTTTAAGGTATCAAGGTGTAGA
GTTTATGTCATTTTTAACTGCATTAAAAAGATTTTTGCAAGGCATACCTAAAAAAATTGC
ATATTACTATATGGTGCAGCTAACACAGGTAAATCATTATTTGGTATGAGTTTAATGAAA
TTTCTGCAAGGGTCTGTAATATGTTTTGTAAATTCTAAAAGCCATTTTTGGTTACAACCA
TCAGCAGATGCCAAAATAGGTATGTTAGATGATGCTCCAGTGCCCTGNTGGAACTTTTTG
ATGACAATTTAAGAAATGCNT

Sequence 3254
CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAGCAACAGTTACTGCGACGTGAGCAGCAA
CNAAGTATCCTCTCCTGAAACTATTAGGCAGCACTTGNCCAACCACACCGCCGCGACCCA
TACCAAAGCCGTCNCCTTGGGCACCGAAGAAACACAGACGACTATCCAGCGACCAAGATC
AGAGCCAGACACCGGAAACCCCTGCCACACCACTAAGTTGTTGCACAGAGACTNAGTGGG
ACAGTGCTCCAATCCTCACTGCATTTAACAGCTCACACAAAGGACGGATTAACTGTAATA
GTAACACTACACCCATAGTACCTGCCCGGGCGGNCGTTCTAAAG

Sequence 3255
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTATTTAAAAAACCAGAGAGTTATTTGGTA
TTAAGAAGAAAGATGATTAGATTGAAAGATTGAAAGTGGACACTATGGATAGGAAGTAAA
TGAAACCACTTCTTTAACTGGAGTAGTTTTTAATTTTTGAGTTTTTTTCTATAGGTAACA
TAAAATAGGGATGGGTTTTGTAGTTGGCTTTTCATTCTTGGCACTAATGCCACTGTTGGG
ACCTTGAGACAGCAAATTGAACTTTCTGATAGTTGNCCTAATAGCTCTTTCAGGCTGTAT

TABLE 1A
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TTGGTGTCCTTAGTGAATTAAAGTTTG
Sequence 3256
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTGTATACTGCAGTGTCGTCTACATGGCAT
TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTT
TGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTG
TGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTG
CGTTTAGGNGTTTTATTGGATATATTGGATTTGGTTATATACCATTATTTTTAA
Sequence 3257
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGGAAAGGCTTTCTCCAGCTGATGGATGGC
TGTTCTCTTTATTTGGAGTATCTTACTGGTTATGTAAGCGACCTCGAGAGAAATTATCCT
GACCCAGATCGGAGGATGCAGTAGTGCTTCAGCTGCAGGATTTCTTAGTCGTTAACACCA
CAGTGCTGATNACAAAGAGCGAGTTGTAATCCTCATCACTGCCAGGGCTGAGCCAGANCA
GACAGAAAATCGTCATTTGCTCGTTGGAGACTTGTTAGGTTATAGCTCCTGCTTCGTTCT
GTGGTCTTGGCTTTTCTTCCTATNCAATGACGCCGCTGCAAGTGAGCTCACAAATGCTTG
GTTTGAGAGCCATTTGCCTGTGATTTTTGAAGACTAAAGAAGTATTTACACTAGATACTC
TTCCAGAACAAAATAGAAATTTCAGCAAATACTTACTGACCTTTAAAGCCTTGTTGTGGA
TTTCTTGAGATTTAAAGATACTTTAAAATTCTCAAAGAACAAAACTTT
Sequence 3258
CCCTTAGCGGCCGCCCGGGCAGGTACGCGGGCCTGACCTCAGGCTGCAGATATTGAGCTG
AGGGGAGAACAATAGGGTCTCAAAAGATCTTTTTGGAGACCAGAAAAACACAACATATAC
CATTGGAACATTGAAGCTTTTGGGCATGGGGCAGAAATTAATCACATTTAAATTTGAATT
AATTTAATCAGGTTATTTTCCTAATAATTAACACAACTCGAGAATGGAAATTTTTGGCCA
GGTGTGGTGGCTCATGACTGTAATCTCGGCACTTTGGGAGGCTGAGGCAGGTGGATAACC
TGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTAAAACCCTGTCTCTACAAAAAT
ACAAAATTAGCTGGGCGTGGTGGCACATGTCTGTAATCTTAGCTACTTGG
Sequence 3259
GCGTGGCNNGGCCGAGGTCATTTAAAAGGTGATGCTAATACTTAAAATGTTTAAGATATA
GATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCACTGGACAGGAC
ATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGCAACGTG
ACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTGGATTTATGT
CTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTTGCTTTGCTT
TTGTGT
Sequence 3260
CCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGTGCCCCTACCTAACTTTGTTGATAGGGC
CCTACCTAACCAGTAAAGTAATTGGTGTGCATCCCCCATTTGCCCTGAATCTCCCAGGGA
AAGGGCTAATAAACAGTGACTTTATAAGCAAGCAAGAGAAGAGGGGCCAAAGGCTGAACA
GCTTTTCACCCGGATACCTACTTTGGAAAGAAACCCGAGTTTGCCATGAAGAATGATAAT
AGATAGTAGGGAAGCCTCCCAGGCTTGTATGCTGCTGGTAGCAGGCAGTGTATTAACAAC
CAAGCCAGAAAATTTTCACAGAGATATCTCCTAAGGCACTGAAAATAAACTGCTGTTTAT
TTTTTCAGGGACAGTCAAAGCAGTCAAATACTTTTTACAAACATTTTCTTGGACTCTTTG
CTTCCCCTCTCTTACATTCTTTTCTATAAAAATATTTGNATTTCTCTGTTGATGAGTTTT
AAGAGGATATGTTAATATACTAGCAATTTTATTTTTCTATTTAGAATATCCTCCATTTTT
TATTTTTATTTTTTAANGG
Sequence 3261
GAGCGGCCGCCCGGGCAGGTNCACAGATATTAGCAAACTGCCTAGCCAAAAGAATTCATA
TAAAAGAAAATTAGCATTACAGCCCATAGGACTTTTGGAGACAAAGACACACAGCCCGTT
TTGTAACCAGTGTTAACTGAAAGTCCGATTGTGCTGGACTGAAGAGAACACTCACCAAGC
ATGATGTCGGTGCTAACTGGAATTTCTTTTATAATTTGGACAATTTTACCACAAACTCTC
TAAACTTCAGTTTTCTGATCTGAAAAACGGGCCCAAGAACAGTAAGTATCTTCCTGACAA

TABLE 1A

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GGTTGCTATGA

Sequence 3262

CCCTTTCGANCGGCCGCCCGGGCAGGTACTTTTCTTCTTTTTTTTTTTTTTCTTTTTTGA
GACGGGCTTTCACTCCAGCCTGGGTGGCAGAGTGAGACCCTGTCTCTAAACAAAAACGAA
GCATGTCTATAGAAAGAAACTGAAAAATGTTAGCATTAAGAACCCAGATGGAGACCTTTC
TTTTGGTCAAGATTATAATTTANAAATTTTGAGATGGGGTGTGGTGAGGAAAGTGAGGAA
GCTTAACTGCTTGGTTCTTTCATCTCTGAAATTTAGGCAGTGACATTATTTATTTAGAGT
GAGATAAATTGTGATGGCTCAAAGAGA

Sequence 3263

CCCTTTCGAGCGGCCGNCCGGGCAGGTACGAGGGCAAGAGAGGAGGTGTCTCCTTAAAAA
GGAAGACAGTAAGGTAACACAATTTATCTAAAGTCAAAAAACTTAAAACGGACCCGGATG
TCAAACCCAGGACTGCCCGAGCACAGGACCTGTATTTTTACTGCTCTGCCTGCCTGCTAG
GCAGCACCGACCCACCAAAACAAAGGATATGNAAGCACCAAATGAACAAGTATTTTAAAC
ATGAAAAAAAATTGAAAACAGCTCACAAGTGTGTATAATAGGTATTCATAGCCATAATGT
TTTAATCAAACAAAAATNAGTTTATTTTCTTTGACTCAAATTATAATTATGTATTATGCG
ATTAAGTATGTCAAATATTTTACAGGAGTTGTAGAAAGAATGTTTTATTCAAAAAGCTAG
CACCAAGACTTAAGTAGAAAAGCTTTTGCAACTCACTGGTGTAGGGACAGTGAANAA

Sequence 3264

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGAGACAGGGTC
TCACTCTGCCACCCAGGTTGGAGTGCAATGGAGCAATCATAGCTCACTGTAACCTCGAAC
TCCTGGGCTCAAGTGATCCTTCCACCTCAGCCTCCCAAGATGCAACACGGGTTTTTTCCA
CGTTTTTTTCTTACTCAGAAAATGAGGAAACAGAAAGTAGAGCAAATACAATATCTGAAG
AGATTATTGTTGAGAATTTCCAAGAAACAATAGTAACAGACAGTAATTTACAGATTGAAG
AAGCTATT

Sequence 3265

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTTTACTAATAGTTCAGCCACACTCG
AAGACCTGAATATAGTAGAAACTTGAATAATTTGGACCTGCTAAAGGAGAGGTCACATAG
CTTGGAAGCGGTCAGAATCAGCAGACATTTGGCCTGGCGCAGAGGCTCACACCAGTCTGG
CCAATATGGTGAAACCCCATCTCTACTAAAAATACAAAAAATATTTAGCCGGGCATGGTA
GTGCATGCCTGTAGTCCCAGATACTCAGGAGGCTGAGGCTGGAGAATCACTTGAGCCCAG
GAAGCGGAGGTTGCAGTAAGCCAAGATCGTGCCACTGCACTCCAGCCTGGGTGACAGAGC
AAGACTCTGTCCCAAANAAAAAAA

Sequence 3266

ACTTTTTTTTTTTTTTTTTTTTTTNTNATGAGACAGGGTCTTGCNATGTTGCCTAGGCTGG
TCTCGAACTCCTGGAGTCAAGTGAATATCTGACCTAGGACTTTTTTGTTGCTACACCATG
GGGGTCCCAGNAAAAACCCATTTACCACTCATGCTTGCACAACCCAAAAATGCCAGGGAG
TTCTTGCTGATGGGGCCAACTNTTGACCAATAGGAAACTGGAGCCTATANANAAATTCCA
CCCCCTTNGAAATAANACACTGNAAAAATTTTGCAAGGGAAGATCCTGANAAAAAGAAGT
TTCCCCCACTTCCCTTTTAGGGATGATTTATTTTCTTAAAATAACTTTTTATTTTCTTAA
AAGT

Sequence 3267

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAAAAAATTTTTAATGTAAAATACCCCTTTAA
GGATAGAATTTAGGGCCTTGAAATTCTACTCAGTTGCTATGAACTGTGGGGAATTTGAGA
CAAATAGCTTTTGTAATTGGAATGCACACTGTGTTGTAATAATGTGGAAAGAGAAACAAA
AACTTTCCTTAATGTAATGAGTTTCCATTATCTGCCTAATCTAAGGTTTGTAAGTCTACA
TTGTCAGGATTTATATTGAGGAGATAGGGGGTGTCATTTTCTGTACAAGATAGTTTTAAG
TATGTTCTAAATATTTGTCTGCTGTANTCTATTTGCTGTATATGCTGAAATTTTTGTATG
CCATTTACTATTTTTATNGTTTANGAAAATAT

Sequence 3268

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATCACCCTGCTGAGGGACATCCAGGACAAGG
TCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCA

TABLE 1A
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ACTTGACNATGGACTCCGTTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGGA
CCCCAGCCTGGTGGAGCANGTCTTTCTAGATAAGACCCTGAATGCCTCATTNCNTTGGCT
GGG

Sequence 3269

CCCTTAGCGTGGTCGCGGCCGAGGTACACTTACTTTTAAAAAAATAATAAAAAAAATAAT
AAAAATCCTTTTCCCAAGCACCCCCGTCTAAAGTTACAGCTGTATTTGGTTACTCGTTGG
ANAGGAAGGCCGGTTGCCTTTCTTCTTGGCTTCCAAGCCTTGTTTCTGAATCCTTTCCAC
ACACACAACTCTTATTTCAAAGAGAAACCCCACTGGGAGACTGGAAGACAGGACTGTGAG
AGAAGGAAGTTATGTTAATTCCCCAACCCCAANGACACCAGTGGGCACTTCAAATACTTA
GGGAGAAAAAAAAAAAGCTTCCTTCTAAATTGATTAAAAGTTTGGTGATCACATTNGCAAG
TTTTNANAGCTCCACCATTACNTCCNTCCTCCCCCATNGCACCAGTNACTNGCTTAATCA
CAAATAGTGTCNCTGCTTAAGGACCAAGTAAGGCTGAATGTGACCCCTGTTTCCCCCGNG
GCAGCCTGGGCTCCAAGGTAATTGAANACATGACGGCTGTTGATTTTGGCTGANGCTCAN
CAGGACTTAATGTTTGGGGAAATCAATGGCNCCACAGTAGGCCACAACCCCACCAAAGTG
CTTTTNCACCTTGAGGGAATACCTGCCCGG

Sequence 3270

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATAAAGTATTCCAAGGGTTCAGAATAGAAAA
TGATTTCTTCCAGCTTGGGGACATTTGGGAAATTGGGATATCCTTTGGGGAAATGTAGTA
ATCAGTATATTCTGGGAAAACATAGTAGAGAATGAATAAATAAATTCCATTGAATTTGGA
ATATGTTGTCCATTCTCCCTGTAACTAATGCTATCAAGATAAAGTAGAAATACCACATTT
CAGAAACAGCTGGAGTAGACAGGTCTTCATAGGCTAGCTTGGAAACCTAATAGCTATTAA
TAATGAAATTTTAATTATACTCTGGATTCTAAACAATGAACACACAGTGATCTTTTTGAC
TTGCTGCTTGTTTATAANTTGGGGATGGTCTGAATTCATTGTTGATTCAAA

Sequence 3271

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAACTTACATAAAAAAGGCCCTGTTATAAAT
CAAAGAACTTAATTTCAGTATTGCATTCAATGGCTCCACACACAGAAAGCTCTTTTGGTT
TGTAAAAGGGATAAAGTAGACTTCTAAGATTATTTTAAGTAATATATTCTATGTGCTTTT
ATGGCACGGCCCAAACAAAAGAACTCCTAGATGGTTTCTGGGAACTGTTTGTTAATTTAC
CATTCCAGGATGAAACAATCAGGTTGCTCCACCTCAATAAAATGGCCTTTCACACACATC
ATCCTTGCAGGACACTCTGCCCAAATTATTTAACCTTGAACACAAAGAACCTACCCTGAG
GTTGCTGAGATTAAATGGAATAATATGG

Sequence 3272

NGCTTGCACCNTTCCGAANAAAANCGCTGTACTAAAGCCGCGAGTCTGGTGNACCTTGGC
ACCCCACNCGTTGCAAGCNTGNATTGGTANCCCANAGACGCCCAACCNTACCTGGGAAAT
GAATGTTCTTTGGGAAAAAAAAATGGACCCGGTGGGAAGCCCTTGGGGCTTGGGAAGCCC
CCGAAGGGTTCCCGCCGTTGGCGGGCCCAAATTCCAAGCCNGGGTTGGGCAANCCCGGGG
ACCTTGGGGCCGTTGCCAATAACCCGTTGGGGACGGTTTNCAAGAATTACCCCCACCCCA
CCCCAGGTTAGCCACCTTNAGTTATTTTGGCCCCACCTTGNCCCACCAANAAGAGGGCCA
ATTGGGAAGGAACACCAAAAACCGTTTCCCCCCGGGTTTGGCCCTTCCTGGCCGGGTTGG
GNCAANAATTNNCCCNCCGGGTNGCCANGGCCGGGCCCCGCCTTTNGGAACTTTANTTNC
TTAGAAAGAAAAAAAAAACCCTTNCCCANCACCCTTTCCCCC

Sequence 3273

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCTCCTAAAATCTGAAAAATTGATGC
TTTGCCCTAAAAAACAATCTCTCAAATGATTGAGGAAACAATGGAATAATTGAATACCCT
CAACTTAATTCTAAATTAAGGGAGAATTTGTTGGTCAAGTGAAGACTGTGTATAGCTAGA
ACTGTAACTGAGAATTTAGGCAGCAGATTTTTAAACAATCCAAATAAAAAAAATTTTTGC
CCCGCTTAATACAGAGCCAGTGTCTCTGTAGCACTTGGCCCATGGTAGATAATCTAAAAA
TGTGATATGTGAAATTCCATGACTTAAGACTGTAAAAGACTGCGTGGTATTTAGTGGACA
TAGCAATATTCATGGAATGAATGAATGAATGAATGAAA

Sequence 3274

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCTACTCCCAAAAACCTTGAAATCCAAACAA

TABLE 1A
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CTAACAAAGTGAAACATGTTTGTCCTCTCTCTCCCCCTCTATCTCTCGCTTTCCCTCCCT
CTCTCTTTCTCTTCCTGTAGAACTGCCCATCACATTCCAAATCCCCACTTAAATGCTTGG
ATTAGTGCATGCCAACCCAAACTCCTATATTTACTACTTCTAAAAAAGCACAAACTAAGG
ATTAATGTTCATAATCATGACTTGATAATAAGTTGAAGANTGGNAATTTTTTGTTTGGTT
G

Sequence 3275
AGGTACTGTATTTAAATATGACTTATAACTTGTCTGTTTTTTTTTTCTTTGTCTATTTAT
ATATCTGGGTTCTTTGTTAAGTCATGAAGACCAAGCTTAGAAACACAGCATTTAACTTTC
AAATGAAAGCAATGGAGGTTTTATGCCCCTATATACATTTGAGGCCACTGGTATTTTAAA
TTGGTTTTTCTTTATTCTGCTTTTAGGGTTACTTTGTGTTCACAAGACATGCCACTGTNA
CCATTATACATTATTGNNAATTAAACCCAAAACTTATTTTTTAATTTTCTCAGCAAGCAC
ATTCTCAAAGAGTTTTAATCCTTTCCAAAAC

Sequence 3276
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTG

Sequence 3277
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGCACAGCAATTGCTGTATGTTTGTTTTTA
ATTATCGGTTTTCACTTGGAGGGGCCAGTTCTCTATATTCCAATCTATTTTCTATATCAG
AAATGAGCAGGCATTTTAAAAAATGGTTTTCATTGATGGAGAGGTAAAAGTGAAATGGCT
TTGTTGTATTTATATTATAAAAGGCCATTTCCCAAATCTAGAATTTATTACTAAAAATCA
AGTTTGCATTGAGGGGAGGAGTATGATTTGCTCAAGCTTACTTTTTTTATAGGTGGGGTT
TTTATATTTTCAATGTGATTAC

Sequence 3278
CCCTTTCCAGCGGCCGCCCNGGCNGGTACTCATTGCTNTTGAATGTTGCTGNTTCTACTA
TTNCTTGGAGACAGANCTAGGGCATATCATTGTNTAAATACCTACACATAGGTGATAATA
TGGACAAATCTACAGATAGCTTCTGATTATCAATTCAGAACCATAGATTTAGTTTGGTNN
TTTATATTTNTAACATCCTTCTCCAACAATAANAAACTANCTCTCATTATTCTTAATATT
TATTTGATTAATCTCCTTGGCCATAACCAATCTCCCTCTCCTGCACTGATGCCTCTTTAA
TCCCAGTNGGCCCAGACACCTCACATNAGGCTGCATGGNACACATCCANGTCTTGTTGCA
AGCTAAAATCCTACCAAGAAAAAGGACAACACTTACCCTATATTGAGTCTTCTTCCGAGT
ATCAACTNCACTGTGGCATCTGCCTATGTTCATTCACCCCGGNNCCTTCAGGGTTATATT
TTTGTGTTTTGTCCANGGTTTTTAGCTGGTCTCTGGGGAGGGTTGGTCCAACAGGAGCTA
ACGCTCCNTANCGGGAAGCTGCCATANGATTTTGGNNATTNTGTTTTCCCTCNGGNGGGA
TTTGGGAAGGTTCTTTNTAAGATCAAGGAAGGATTTCTGGCGGGNCCCGGNGCTTACCCC
TGTATCCACACTTTNGAGGCCCNNNAGCNATNNCNNNNNGNGAATTNANACCGNCTGGTT
AACACGGGGAAACCCNTTTTTNTAAAAATACAAAAAATTNNCCCCGGCGTGGGGGNGGGG
CCCCTNTNTNCCCTNTTCTNGGGAGGCTGAGGCAAAAAAATGGCCCNAACCCTGGAGGNN
GNANTTGCNNNGGACCCCAAANANNNCCTTTGNNCTNCNGCCNGGGCNNAAAACGAAAAT
TCNTTTTTAAAAAAAAAAAAAA

Sequence 3279
GGTACTTCTCTTTCTATGCAGGATCTGAATGTGACCATATGAGTAAAACAGCCATGATCA
TCTTCCCAGTGGAAAGGCCACCAGTAGTTAACAGTTTTGAATCAACAATACACCTGCAAA
TGAGGACTGAGCTTTGCATGCTTCCTATTTCAGGAGATTTTCCATCCTTTTAAAAATTCC
ACACACAAATCACCAGGGCTCCTCAGGAAAGGTTGCTGAGAACTTGAAATTTCA

Sequence 3280
ACCAACACTCTTCTGTTTTCCTTTCTCCTTGCTTCCGGATCTGAGGATGAGCAAGAATAT
CAACACCAATTGTTGACTTAACCTCTCTAACTGTNATAATAAGTTCCTTGAATTTCCCAC

TABLE 1A
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TGTTTCTTTCTTTTTTTCTATGTAGGCTTATATGAATTATGGCATACTTGATTTATATAA
CTGATATGTTGNTNAAAAGTTNCANGAATATANTTNCTTTGATAAATTAATATCAGTGCC
ATTTATTGGAATTCTGTGGTGAAACATTCTTTAAAAACAGGCAATATTAGGGAAAAAAGC
TCTAACTTTTTTTGGGGGGGATAAATCTGAATTTTCA

Sequence 3281
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACATAAAGCATGCCAACTGCTGCTGGGAATCA
TCTGTTCCAAAGAGGCCAACACTTACTCGTCTGTTTTTATTTTGCGTAAAGAATGAGTAG
AAGCATAAAACCCCTCACCATCTAGTGCCTGTTTTACCCCAAATCTTCTACATCCACTGT
TCCGAAGATTTCCACACTGATTCTGAGCAATTTATGTAAGCCCAGGTGTTCAAAGTTCCA
GGTTGAAACATTNGGTTAATTAACATCATGCTGCAAACACTCAAAATCACTTCAAGCTGC
CACTATAACAAAACAAAACTCCCAAAAACAAAAACTGTAGGGAAATATAAACAAATGGCA
GTATTCTTTGGAAAACAGTATATGATTTTAAGTGACAATAAAAGCAGCAAGGGCTTTCTT
GATTTAATACTGTGTTTCTCAAAAACATTTTTCTAAAGG

Sequence 3282
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTT

Sequence 3283
CCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCGTCTACATGGCATTG
GACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG
GCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTGG
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTTG
CTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTG
TCTACATACACATCATTAAT

Sequence 3284
NCCCTTAGCGTGGTCGCGGCCGAGGTACCTGANATCACAAACAACTTTTGTGAAAAACAA
ACAGCATTCCTGTCATGGGCCCTTATTTAACCCACTCTNCAAANAAANGAGAGCAAAAAA
GTTTACTCCAGATCAAATATGCCATTTTAATTTTATTTCCTAAGCTTGGAATAAAATACT
GTAATTAAATACAATTGNATTATATTTCACAATTTTGAATTTAAGGGATCTGTTCTAAAT
ATCANTAGCTCAAAAATCCAGAGTTNGTTCTGTTTTTGGCTAAGATGTTTATAGGTAAAT
TTCATGGNAAAATGTTTCTATTTCATGCACAATTTCCTAGAGTTTCAAAAAAAAATA

Sequence 3285
CCCTTAGCGTGGTCGCNNNCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG
TCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG
CAACAACTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT
AGTCGTCTGTGTTTCTTCNGTGCCCAAGGCGACGGCTTTGGTATGGGTCGCGGCGGTGTG
GTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGAATACTTCGTTGCTTGCTGCAAGGA
TCAGCCATGGTAGATTATGGTTTTTTGAGAACAGATGGGGCACCACAATTCCTAGTGTGC
CCATTAACAAAGTCTTTTCAAAATAC

Sequence 3286
CTTAGCGTGGTCNCGGCCGAGGTCAGCAGAATGCGTCTCCGAGAGCTCCCTTGGTCCAAA
GACAAAGCGTTCCTGCCCAGAGNCCACAGAGAGGTGTCTAACATGCCTTCTATACTCACA
AATTGGTTCTGATCCAGTGGAGTCCCATCAGTAGGCTCATGCACTTCCCCAAGAACTCCA
CAAAATGATTAAGAACTAATCAGCTTTTGGGCTGGGCGCGGTGGCTCATGCCTGTAATCC
CAGCATTCTGGGAGGCCGAGGTGGGTGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCT
GGCCAACATAGTGAAACCCCATCTCTACTAAAAAACAAAAAATAAGCTGGGCGTGGTGGC
GG

Sequence 3287

TABLE 1A
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CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTT

Sequence 3288
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGCCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGCTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGTGC

Sequence 3289
TTCCCCCTTTTTCCGAAGCCCGGCCCGCCCCGGGGCCAGGGGTACCACCAGGGCCCCAAA
GAAAAAAAAAAACCCCGTATTCAAAAAATGGTAAAATTATTCAAATTTCCCCCATTTTAC
CAAGCCCANGTTTAAAAAGAAACCAATTGGGGGGAAAAGACCCAAAGAAAGGGAAGAATG
GGCCAGGTTGGACCCAGGAAAAGGAAAGGGGGGAAGGAAAANGGGGGGGAAAAATAAATT
TGGGGCCACCTTAAAGAAAAAAAGGCCNGGAAAAGGAAGAACCATTATTTTTTGGGGAAG
GGGGAAGNAATTGGGGCCTTACCCCCCGCCCGTTACCCATTTTTCTTTAAAAGTTCAAAA
ACCCACCTTTGGTTGGAACCTTTTTTTGGCCTTTTTTAAAATTTTCCCATTTGNAAAATT
GGTTTTCCCCTTGGGCCCCTTTCCCCTTTTGGGAATTAATTTTTTGGGNNAATTTTTTTA
AATTTTTCCTTTTTTTTTTTTTTTTTCCTTTCCTTTAAANAAAAGTTTAANNAAAAGGGG
TTAAATTTAAAAATTTTTGGGTGGGGTTGGGAAATTAANTTTTTTTTCCCAANGGAAAAA
AAANTTTACCCCNCGGGGAATTTTAAAAAAATTTGGGAAATTTTTCCCCAAAAAAAA

Sequence 3290
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCCTTCCCATCAACCAGTAATGAGCCTCCTG
CTGCCCCCACCACATCCCCACTTGTGATGTCAGCGGGGATCTTGGACTTGTGGCCTAATT
GACAATAATGCACCTCTCCCTTGCCCTGCTGGCATGATGTCAGAGGAGATCTAGTGGACT
TTTACCGTTTCCCAGAAGTATTGAGGCCATCTTACCACAGTGTCAGTGGATACCACATGG
AGGATCTACAACTCTCACTTTCACTCAGAATGTATGAGGAGACCCTGCCCCTCCTTGAGT
GTCAATGGAACCTGGACTTGTACCTGCCCGGGCGGCCCGCTCCGAAAGGGCNAATTCCAA
G

Sequence 3291
CCCTTCGAGCGGCCGCCCGGGCAGGTACTGGTATCTGATTGTTCTTACAGAAACTCAGGA
TGAAAACCGAAGAAGAGGCCCGGACTCATACAGAGATTGAAATGTTCCTTAGAAAGGAGC
AGCANAAACTTGAGGAGAGGCTGGAGTTCTGGATGGAGAAATACGATAAGGACACAGAAA
TGAAACAGAATGAACTAAATGCTCTCAAAGCCACAAAGGCCAGTGACTTAGC

Sequence 3292
CCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCGTCTACATGGCATTG
GACTGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG
GCAACCGTGACCAATTTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTT
GCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGT
GTCTACATACACATCATTAAT

Sequence 3293
CCCTTCGAGCGGCCGCCCGGGCAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCC
GTCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGT
GCAACAACTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGA
TAGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTCGCGGCGGTGT
GGTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATC

TABLE 1A
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AGTCATGGTAGATTATGGTTTC
Sequence 3294
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGT
Sequence 3295
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCATT
GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT
GGCAACGTGACCAATTTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT
GCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGT
GTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGC
GTTTAGGTGTTTTATTGGATATATTGGATTTGGNTATATACCATTATTTTTAATACATAC
ACATGCACGCTTTTTAATTACATAATGTATATGTACCTGCCCN
Sequence 3296
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACCAGCCTTGACACAGAGCCCAGGGGCAAC
TTGTGCTTCAGTCAACCTGTGAATTCTTGATATTTATTTCTACTTGGGAGCATAAAAAAC
CCAAAGGTAAGTGGAGAAAACGCTCTTTACCTNCCCACTTCTTTCTNTGGGGATTCTCCT
TTCTCTTGCATTAGGCCAAGAGCAGAAAATCCTGGAGTCCCCAGAAGGTAAGGTTTAGAG
CTGACTGGAAGCCAGAACAACTGCCTTAGAACGCCAACGAGGACTGCTACTTCTGGCCCC
CTTAAGACCTCGGAGGACGGGCTTTGGCCAAAACACATGGGACCAGGTGCTTCGCCCATT
TTATTTTTTAATTTTTTT
Sequence 3297
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ATAATGTGTATTGNATGATGCTATTTCTATGTCTTTGCATTAATCTGGAAAGAATGTTCC
TTTTTTTTTTTGGAGACAGAGTTTCACTCTGTCACCCGGGCTGGAATGCAGTGGTGCAGT
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CCGAGTAGTTGGGACTACAGGCATGAGCCACCACGCCCTGCTAATTTTTGTATTTTTAGT
AGAGACAGTTTCACCATGTTGGCCAAGGCTGGTCTCGAACTCCTGACCTCAAGTGATCCA
TCCGTTTTACCTCCAAATGCANGATTAAGCATGAGCCACTGCTNCCACTTGAGAATGTTT
TTTTGAATAACCTGCTTTNTCANTTTTAAGGGANAATGGGGGTTGGGAATAAAAGGCAGA
TCATTTTTTTTTAAGA
Sequence 3298
CCCTTAGCGTGGTCGCGGCCGAGGTACCATTTATTAACAGCTTTCCTTGGAAACTCTGAT
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AGAGCACCTAAATTTTAAACTATTTTAACTACTCAATTCAGGGAGAAATATAATAAGAAA
ATTCCCCCCATATTATTTGGTATATAGTCTATTTAAAATAGCATAGCAACTTATATTTTA
TAGTAAGAATTTTGGCTGGATGAAAATTAATTTAAATACTAGAAACATTCATGTAG
Sequence 3299
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTGGGTGTCTTACCTTACATTAGAATATC
CTAGGCCTTTCTAATTCTTCCTCTTGAATTCCCTGTGTCACTCATCTGAGGTCATCTCTT
GGATTTAAATACATTTGGTCTGAAATTCTCAAACTGCTGAATAAAATGCCATAGTAAGTC

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CAACTATATGGTTTCATGTAGGGTAAAGTAACCATTGTGGAAGGATTACGATAAAACTGT
GTGACAATAAATAGAATAAAAGATGGCAAAACAATCTGTAAATTACAAAGTGTTATAAAA
ATGCATTGAATTTCTAGTGTTCTTACACTTTCATATTTCTCATTGGCACATCAATCAGAC
CTTGCCTTCCTAAAGTGGGAGGAAGAAAAAGGCTGCACCTGTCTGGGCTGAGGGTCTGGG
CAGAACACTAGCAAAACTTTTAATAAATCTTCATGTCACCACCCCAAACTCATTANGGCC
CAAACTTATTTCATTATCTTCACTATCCCCATGGTTTTCCTC

Sequence 3300
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CTTTTCAGGCATCATGTTTGCTGACCACCCTTTGGCCCAAACACTCACCTCACTAAGCCT
AGACTCAAAATATGAGGGCACTGCAAAGATTCACAGCAAAGATTCATGGCACAGGGCCTA
GACACAGGGAGGAGTCTCTGTATTTGTTTTTTCTTTGTATTTGTTTTATCAAGTGAAAAA
CAAATAAGGATCTCTGCTTCCATCAACATTATTCATCTTTGTTTCAGGGGTCCCTGTGAT
TTTAAGTTGGCCAAGATGTAACTGGCATAATGAATACAACCAAATGAGAAATATTACCTT
TTTTTGTTGATGATGTGATTGTATACCTGTAAGAGTGGAAGGGACTCCAGTAAAAAACTG
GAGTGCAACAATCAGTAAGAATATTTGACAAGGCTGTTGGACTAAAAAAATAAATGTTAG
AAAAAATCAGTAAGTTCTTCTTTTATTAGCCATTNGTTCAAACAAATATTTTATTTAAAA
CACCTNACTTGGGNTTAATNAAGCATTNAATCTGGGNCCCCTAAGTACCCTGGCCCCNGG
G

Sequence 3301
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CTTTAGAAAAATGTTTTTGAGAAACACAGTATTAAATCAAGAAAGCCCTTGCTGCTTTTA
TTGTCACTAAAATCATATATTGTTTTCCAAAGAATACTGCCATTTGTTTATATTTCCCTA
CAGTTTTTGTTTTTGGGAGTTTTGTTTTGTTATAGTGGCAGCTGAAGTGATTTTGAGTGT
TTGCAGCATGATGTTAATTAACCAAATGTTTCAACCTGGAACTTTGAACACCTGGGCTT

Sequence 3302
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GAAGGATTAGAAAGAGTTTGCTAGTAGAAAACCGGAGTGGACGTCCTAGGGACTAGCTTG
AGCAGAGGCCTGGAAGCATGACAGGTTACACAGACTGCTAAGTCTAATAAACCAATCCAG
CTNTACAGCATAATGAGTTTTGAGAATTACAGTCAAGTATGATTAACTCATACTTCACCA
CTTNCAAATGTGTTGATTATCATCCTCTTATGCTAAGCTGAATT

Sequence 3303
CCCTTAGCGTGGTCGCGGCCGAGGTACAGACCTACGTGACCATATAGACTATTGGAAACA
CATGCGCCTAGAATGTGCTATTTATTACAAGGCCAGAGAAATGGGATTTAAACATATTAA
CCACCAGGTGGTGCCAACGCTGGCTGTATCAAAGAATAAAGCATTACAAGCAATTGAACT
GCAACTAACGTTAGAAACAATATATAACTCACAATATAGTAATGAAAAGTGGACATTACA
AGACGTTAGCCTTGAAGTGTATTTAACTGCACCAACAGGATGTATAAAAAAACATGGATA
TACAGTGGAAGTGCAGTTTGATGGAGACATATGCAATACAATGCATTATACAAACTGGAC
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TGGGTTATATTATGTT

Sequence 3304
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TTAAGATACCGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCAT
TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT
TGCTTTGCTTTTGTGTGCTTTTGTGT

Sequence 3305
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTGAGTGAAATTTTGATGTATAAGTGCTGG
CAGCCGAAATTGCCCTGAGCACAAAATGAGCTTTCCTGTTTGATAATTTGCTTGATTCAC
TATGTTGCTACATGCAGGGCACTTTATGCCTGACTTATATTAAATCCAGTCACCTGCTTA

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ATGTTAGAAGGGTCATAATTATATACAAGGGTTTTGAACATACAGCATGTCAATATTTCA
GATCTGGCATATAAAATATGTATACCCATTTTCAATTTAACAATTTTAAAATATGTTTGG
TAATAACTTTAGGGTTATAATACAACACAAAATCATTCTATTTTCACCAAGAATAAAGTA
AGCAAATGTATTGGGGTTATGAGACAACCATAGCCCCATATATTGGGACGAGCAGAGGCA
TGGAGTTATGA

Sequence 3306

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCAAAGCCCTGCTCCACACCTTGCCCTGGCC
AGGTCCACCTTTGAGGTGATGACGACAGTTGCTGAGAAAAGAGAAAAGACCACTGGCTCA
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CTGTTTGAAGATTGCCTGGTCATAAAAGGGAGTCAGAGGTCTGACTTCTCTATTTCCATC
CCTTAGGGGACTCTTTAACAACAAAAAGAATGTATTACAAGTATGTCAAGCTGATAACGC
AAGGCTTTTCCTCCTGGAAG

Sequence 3307

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
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ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
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TGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGNGGATAACAGCAGCCTC
TGCGTTTANGTGTTTTATTGNATATATTGGATTTGGTTATATACCATTATT

Sequence 3308

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GCCAAATCCATGATTAAATGGCAGGGACTCTGGGTCTCTTGTGCTTAGTGAGGGAAGGAA
GGAGGTGGTATGTTTTCAGTGAAACACTCACTGAATGGAACTCCAGGCTGGAGGGAGAGT
GAAGAGGGAAGAGAATACAGTCCTTGCTATTTTCCTCAGCTGATTCATAATACATTAACA
CCCTCATTTACATGGCCTATTAGAAGTTATTTATATTCCAATTACAGGCTATTTGAATAT
TTGCATTTGTANTCNAATTACAGGGTTTAGGGAAAGCTCGT

Sequence 3309

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TTTCTAAGATAAGCTTCACAAAGATGAAAATAACATTCTAAGATCCATTATGTATATATC
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ATTTCATACATTGGGG

Sequence 3310

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TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATCTGCATCCACAACATTACTGGCGTGCTTTT
TGCCTTGCTTTTGTGTGCTTTTGGGGGGTCTGCCTATTAAAACNTCCGCTGCTTTTGTCT
GNGGNCTACATACACATCATTAATACTATTGGGATTACTATTGGGGGATAACAGCAGCCT
CTGCGTTTAAGGGGTTTAATGGATATATTGGATTT

Sequence 3311

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTTTCCACAGAGTGGGAAGATAAGAACACAT
GTAGAGATGATAAAATGTCATTGGCTCCAAGAGACAAGCTTCCGAAATCCATGGTGGTTG
AAGAACATCAAAGAGGAGCAATTATTTCAGTCATTAGGGCAGTTCCACCTGTTCTAATTG
AACATTTTTAGGATGTAGAAGATGCATCATACATTGGTATCTATTCAGAAGGTGGGGACA
TCTGCTGTCTGTCATGTATCTGGGAGATGTTTATCTCAACAGGAGGCAATAATAATATGG

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TAAACCAAACCTAATATTA
Sequence 3312
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTCCCCAAGGACAAGCAGTGATGGAGAACT
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GACTGGGGGATATCCAAGACATAGCATGAATGGGGCTAGCAGAGTCCTGACTCATATTTT
GACCATTAAAAAAAAAAAAAATCCTGGCTGAGTGTAGCGGCTCATGCCTGTAATCTTAGC
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AACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTANCCGGGCGTGGTGGTGGG
TGCCTGTAATCCCAGCAACTCAGGAGGCTGAGGCACGAGAATGGCTTGAACCTGGGATGC
GGAGGTTAC
Sequence 3313
GGTACTCTTCTTAGAATATATAATATCAATTAAATATAGTAATTCTGTATAGTTGTAAAT
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ACGCAGACATTGATCCTTATTTTTAGAATGAAGAAACTGAACTGACATTCACAGCAGTTA
AAAGCTTGCCAGATGGCCAGGCACGGTGGCTCATGCCTGTAATCACAGCACTTTGGGAGG
CCCAGGTGAGTGGGTCACCTGAGGTCGGGAGTTCGAGACCAGCCTGACCAACATGGAGAA
ACCCCGTCTTTACTAAAAATACAAAATTANCCTGGAGTAGCGGNGCATGCCTGTAATCCC
ACTTCTTGGGAAGCTAANANAAAATTGCTGGAACCTGGGGGGGNAAAAAATTGNAAGGGA
NCCAANTCCCCCCATTCACTTNGGGNGGGGNAANAAANCCNCCCCCNNNNAAAAAAANNG
GGNTTNNGANCCCCNACNGNNANNNNNAAANNNNTNTTNNCCCNNGGNNNNTTTTTTGGG
NAAAAAAANTTANNNNCCCNNGNNNNNNNCCCCNNNGGGGNNANNNNNNNNNNNNGGGGG
GGGGGGGGNAAAAAAAANTTTTTTNAANAAAAAAAAAAAAAAAANCCCCCCCNNNNTTT
TNNAAAAAAA
Sequence 3314
CCCTTAGCGTGGTCGCGGCCGAGGTACCACTTCTATCTTCAGTTGGGCTTGGCTGAAGGA
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TTAATAGTTGGGGTCCATATATGCACTTTACTCATCCCTTCTCCAATAATGGGTCCGGTT
TTCAAGGGCATGGTCTTAAATTGTAAAATGGAGTTACAGCATATCCAAGCGAATAGGAAA
ATGAAGAAAATCTCACCCTACAATTTGTTATTTATCTAGTTCTTTCTCTTTCTCCCA
Sequence 3315
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
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Sequence 3316
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TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA
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TGCTTTGCTTTTGTGTGCTTTTG
Sequence 3317
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AATAAATCAACGTGTTGCGATTGGTGTATTGCTGCATTTGGACTTACACCCAGTATAGCT
GACAGTATAAAAACACTATTACAACAATATTGTTTATATTTACACATTCAAAGTTTAGCA
TGTTCATGGGGAATGGTTGTGTTACTATTAGTAAGATATAAATGTGGAAAAAATAGAGAA

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ACAATTGAAAAATTGCTGTCTAAACTATTATGTGTGTCTCCAATGTGTATGATGATAGAG
CCTCCAAAATTGCGTAGTACCTGCCC
Sequence 3318
CCCTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT
TTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCAT
TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT
TGCTTTGCTTTTGTGT
Sequence 3319
CCCTTAGCGTGGTCGCGGCCGAGGTCATGCTATTTTGTCTTATGAAAAGAGATAAATTAG
GTAGGAAAGGTAAGCATCACCATCTTATAGAAGAAGAAACCTAGACAAAGTGAATTTTCC
AATTGCCCAAGATTGTGTCTCTTATTTTTGGAGTTGGAAATAGAACCCAAGTCTCCTAAT
GCTCAGTCCGGAAAGCATTATTACTGTATTGTTTTTAATTCTCCCATATNTCAATCACTT
ATGATAAATGAAAGTTATAAGGAGAAACACTTTAAAATATTTAAATGCTTCAGATGTTTA
AAAATATTTTTTAAGGTAGTGATGAGTTTTCAACAATATCTGATAAATTGAAAGCCTTAA
GAGCCAGATTCTATTTTCCACAGAAAGAAAAAAACCTACATAGCCCCAGACCGTTATCTT
CATGTCAGTTTAGATGATCTCTTAAATGTAACATAAACCCTTAAAATCT
Sequence 3320
CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG
TCCTTTGTGTGAGTTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG
CAACAACTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT
AGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTCGCGGCGGAGTG
GTTGGCCAAGTGCTGCCTAATAATTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATCA
GCCATGGTAGATTAT
Sequence 3321
CCCTTGAGCGGCCGCCCGGGCAGGTACTCGTGGCCCATGTTGGTTCAATTTTTATAGCTT
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GGGCAGACACCCCATCTTTTTATTCTGAAATTTAAAATAATTCAGATTCTTTTGGGGAGG
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TTCCTAACTTGCTGCTTCCTTCTATCAACCTTATCTGGTCTGTAAGAACCTGGGAAAATA
TAAGAAACTGATGGTTGTGGGGAGGGAATAGAAGAAGACTGTTCTAGGTCTTAGAAGATG
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ATAGACCTTTGTGTGATTTTCTCAGTTGCCCCAAATTATACCAAATTTCAACCTCANTAA
AGAATTCTGAAGTTTTACAAAGTTNGAAGAAGAGAGAAAAGGGAAAAG
Sequence 3322
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CTGAAATGTGTAAAAATACCATCGTCTCCAACGATAAAAACAACAACAACATCTGCCGAT
GGCAAAATATAGTCAACTTTCAGGGCCAAGTTTTTGGAAGCAGCCAATGCGTTT
Sequence 3323
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ACAGAAGTACCTGACGGATACAGCCCTGCTAGAGTGTGGGCAACAGACAGATCAGGGTGG
ATTGCCTTCTACACGACTGCGTCTGACCCAGCTTCACACAGCTCTGGGGGCTTGGGGAAT
ATTCCAGAGAGAAAGGGTGCAGGAACTATAAAGACAGGAAGGTATAAGAGACAAGGTATG
GGATGAAAACTGCACATGCTTCAGTTTTGTGACCTGAAATTTTAAATAGGAAGAGGATGG

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CAGTAAAACAAGACGATCAACCTACTGGCTAAAATTCTGGCTGGGTGTCGCATCCTAACA
CTTGTAAGGCAGGGGCAGGTGGATCTCTGTGAGTTCAAGGCCAGCCTGGTCTACAAAGTG
AGTTCANAACAGCTAGGGCTTTTACACAGAGAAACCCTGTCTGAAAAAAAAAGCCTAATA
TAAATTGCAATTCTT

Sequence 3324

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TGTATGTATTAAAAATAATGGTATATAAACAAATACAATATATACAATAAAACACCTAAA
CGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGA
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAAT
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGC
CATTCACTATCATATGTAAGTGTAACAATTGCACTTTTATGTTTTACATTATGTCCTGTC
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTAAATCTATATCTT
AAACATTT

Sequence 3325

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGCCAGTTTCTGGCATATTAACAGCTGAGA
TCAGATAAGTGAACANCGATAGAGGTAGTGAGGTTTAGGATTCANGTCTGCCACCGGGAG
CGCACCTCTGGGCTCAGGTCTCTCATTTGTAAAATGGGACATTTAGGNCANATCAGCATT
TTNAAAAGTGTGACATGTTAAGTAAATAAGATGATTTTATGTGGTTGACAGATGAATGTA
TTACCTTTAGTGGTTATATGTTTATTTTCATGGTTCTTTTTATTTA

Sequence 3326

ACTGAATTAATACTTACTTACAAAATTGGTGTTTGTATTTTTAACAAGAAGATACATTTT
TTTGAGTTTTAATTTTTATCTCCTTAGAAGGCAGTCCAAAAACATATTAGAATTATGATG
CATAAGGAATTTAATTACAGTTTCTAAGTCTTACAAAGTAAAAAGTATTAATTGGTGTTA
TTTGTTGAAATATGTCATAAAGAACAATATCCTAACTGGGGGTATGGCTTAAGAGCAATC
CGATTTAAGAAAAAGACGAAAAGCAGGATCTTAGGGTATCGTAATTTTGTAAATTTTTGT
TTCTTGGAATATTTAGAAAAATTGATTTTAAAATGTCTCTTGGAATAGCTGGGCTAGAAA
TGGTGGTTCAAGGGTGCAAGGAGATTGTAGAATCCTCTAAAGGGAGCCGTTTTTTACTAC
AATGGCAGGGAATAGATGCCTTATTAGATGGGAGCTATTGACTCCGTGTTAAAAACCTT

Sequence 3327

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTGTATACTGCAGTGTCGTCTACATGGCAT
TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTT
TGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTG
TGTCTACATACACATCAT

Sequence 3328

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTCTGTCAGGTATCCCACTAAAATCCCAAATG
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TTCCACATTTATTTATCTTACAAACCTCAGTTATTAACAGAAGTTAACAGAAATCTTAAC
AGAAATATTATTTGCTATGATTTATATTAGATTGAGATTCAGAAAATTTTAATTCTGGCA
TTGTTTTCCAAATAAGCAGCTGTATTTTTCTATATGAACACTAACCGTCTCAGTTTTCTC
ACCGGTAAATAATAAAATTGGACTCAATGTAATCCCTTAAGTTATTCTTAGTTTTAGATA
GTGCTCAGTATTCCATTTTCAGCTCAGTCATGTAGAAAGGTGAAAAGAGGTTAACTCCTG
CAACCACAACAAGAAATTGGAGACCAGGCATGGTGGCTCACGCCTGTAATCCCAGCACTT
TGGGAGGCCGAGGCGGGCAGATCACGAGGTCAAGCAAGATCCGAGACCATCCTGGCTAAC
ACNGNGAAATCCCNGCTCTACCCAAAAATACAAAAAATTAGCCCGACCTGGTGGCNGGCC
CCTGTGGTCCCAGCTACTCGGGANGCTGAGACAGGAGAATGGCATGAACCCCAGGAGGCN
GAGCTTGCANTGAGCCCAAAATCGCCCCCTGGACTTCAGCCTNGGCAACAAAACCAGACT
TGTCTCAAAAAAA

Sequence 3329

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CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTGTATACTGCAGTGTCGTCTACATGGCAT
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TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTT
TGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTG
TGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTG
CGTTTAGGTGTTTTATTGGATATATTGGATTTGGTTATATACCATTATTT

Sequence 3330

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTCAGTAATACTCCACTTGCATGCAGCAGCT
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CTTTCCTCAAATTTTGGCAGATTTCCCCAAATATAAACAATGGAGACAATTTATTCACAC
AATCATTTCCTAGAACTTCATAAAATAATGAAGTAACACCGTAATGGTGAAGGTTGTGGT
GAGGAAAAGAAGGTTGGGGAAGAAAGGAATGCTTCTTTTTATTTTCTACCCACTCGACCT
CACCAAATTACTAGGGCTCAATTGAGCCCTTAGCAAACAAAACAATCAAAAATGTATTTT
ATGCAAATGAAGCTCTTTTTAGACCAAAGTACCTGCCCG

Sequence 3331

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTT
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TTNNTNNNNNNNNNNAANNANNNAAAAAANTNNNTTNTNNTNCTGNGNTTTGNAAAAAAA
AAAAAATTNCACCNTTTNAGGGGGGGATTNGACANGNGCCANNGGCAATGATGAAATGAG
AATCTACCCC

Sequence 3332

NCCTTTCGAGCGGCCGCCGGGCAGGNCNCTGGGGATACCAAGAAANAGTGCTGGNAAAGT
CCTTTATCAGGCCAGCCGGCAATTTTGGTTAGTTCTTACTCCTTTTATGGCTTGAGCTAT
CTCCATAAATGCCATCCTTCCTGGTAACCATAGGAACAGTGCCACTGTGATTTCTTGAAG
TGGAAGACAGCCTAGTGCTAAAGACATCTACCAAGGAAANTATGAACATAATTCACCCTA
ATTATTATATATGATATCTCACATTGTGTATTAGCTGTTAATGCCTCTGTGCCTGAATGA
AGAATTAGATCTGTGACCTTTCCTCCCAGATGATTCTGATGGATGATATTGAAAGATATT
CTTGAGATTTGGGGGAAAGAAANTAATGAAGGCAATAAAGTATTTTAATTTTATTCATGA
TGGACCTTATGAGTGAAAGCTTTTTA

Sequence 3333

CCCTTGAGCGGCCGCCCGGGCAGGTACAAAACAGGGCTAGATTAAAAAAAAAAACAAAAC
TATTAGGGTCTCATCAAAATGACAAGATGACAGGGCTCCAACCAGCTCAAGTCTTCACTC
CCCATTGGGAGGAAGACTTTCCATCACAAGCCTAAATNACCCAGCAGGAAACCAGCCCAG
CCCTGTCTTCTCAGTGAGGCCTTTTCTAACACGGGTGCTTATCTCCATCTCAGGATCAAA
GGATCTATTGCTTCTGGCAAAAGGGCAAAAGCACCGCTTTTACTGGGAGGTACCTCGGCC
GCGACCACGCTTAAGG

Sequence 3334

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATCTTTTATATGCTCATATGCTCCTGTAG
TCGTTAGTTTTAATTCTTAAAAATGTGATAATTGTAATAAACTTTTATTATATCTTATGT
AAAATAATTGTGTGTCTGAGAGAGACTAAAACTCATGCCCTACTTCTCATGATTTCTCTT
TCTCTTTTGTTTCCCTTTCACAGACAGAAGAATTATAGCCTCAGTATTTATGTATATTTT
TGAAAGAGTGAAGTGGGGACTGAGAAGGTATATCTACATGCTATGCCTTTTGATAGCATT
CTGTTTCAAATCTCCTTTTC

Sequence 3335

CCCTTGAGCGGCCGCCCGGGCAGGTACATTTGTTACGTGGTAGGCCTTGGAGGTTAATAT
ATTTAACATTACAGTGAATATCATCAGTGATCCATGGAGAATCCATTGTTCAACAGTTTG
TGATTTTGGGGAAGCATACATGTGAATAGAATATGCTGTAGGATGGAGCAGGGAGCAAGT
CACTTAGGTGGCAAGTGTCTTCCATCACTTTTTGGAATAACTTAGCTACTTGCCCACTAT
CAATGAATATCAGATGAATTACAGAGCTACACTGCTAGATTTTATAACCTTATAGAAATT
ATAACAGGAAGGCTTGCATGAATATGGGGTTTGTAAAGCTCTTCAGATGTATCTTTCATA

TABLE 1A
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CATGTCAAATATGAACAGTTATGGGAACTGTTATATTTAAGAGACATGCAAGAGAAATAA
AGTAGAAAATAAAAATAAAAATTGTGCCTTCAGAAGGAAAGTAACAATATGATAACTGGA
Sequence 3336
CCCTTNCCAGCGGCCGCCCNGGCNGGCNCGCGGGGACAGTCCTTCATTCTCAGTAAACAC
TGTGTGATACAATCAGCCTGCCGCAGATGCTCCTTATTCTATTACTGCGGCATAATCATT
TGGGTAAATCTGTGAAACTAATGCAAAATCTCACAAGGCTATTCAGAAATATGGATTGAA
AATGGAAGACTGGAAAAATAGCTTGTCATAGCCCATTAGCGACTACNCGCTGCGATTTAA
GAAACTATTTTTCAAACGTTTCCATTTTGCA
Sequence 3337
GGTACAATAGGGGATGACATTTTTGATGGGATGCCAAATGTTTAGCTTCTCTGAGAGGCA
ACATTTAAGCAGGAACCTCAATGAAGTGATGGAGCAAGTGATACAGATCCCTGAGAAGAG
GCCACTGAGGGGGCAACATGCAGAGCCCTCATGGGAGTAGGCTTGATGGAATCTGGGAAA
GGCAAGGAGGTTGGAATTGCTGGAGCAGAATGAGAAAGGGGTGAGTTTGGAGTAGTAGCC
AGGACCAGACAGAGGCTTTGGATTTTCTAAGAGGGAAGGGAGGATGTTGGGAGGGTTCAN
GATGGGTATAGACCTGATCTGAGTGATAAAAAGATTACACTAGTTGNTGTGTANACAGTA
TACTAGGAAAGGTTAAAGTGGAAGCAAAANACTANTTCAAAGACCGTTGCAAAGGNTCNG
GTTGCAAAGNTCNGGTGAAA
Sequence 3338
CCCTTAGCGTGGTCGCGGCCGAGGTACCACTCAGTTTCTTAGCTAATGTGTTGTAACACT
ATTCTTATCCCTTACAACTGTCTAAAAGGATTCTTTTTTTAGACTTTCTCTGCTAGTTAC
CCCAAAATATTCTGTGGTAGTGAGTTCCAAAAACTAATTACATGTCACATAAAAACACCG
NCCTTGTATCTATTTCAAGTTGGCCATACCTCACTCTTTCTTCTAGCATAGATAGTTTAC
GGATGTTCCTAGGATTTCCGATTCACTAGTTCCTGCTATTGNGGGTNGCTAANTTNTATT
TTGATTTTNGTTTNCTTTTCTAAACATGGCTGCTACTGCTGTTCATATTTGCATTTTGTT
TACCAGACTATCGATATCAGAATTGTGCTCTGGGGGCGGCT
Sequence 3339
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGTTCAAATTAAAGGGCTAAAATACT
ATACATGCCACCTTTGCATTCCTTTGAGTTTTGTTTGTTTTGTTCTGTTTGTGTCACTAC
AAAACTTATGTTGCCCTTATATAGCACATTTTTCCTTATTGTGTCCTTTTGATTAATTTT
AATGACCATTTGTTCTCTTTTAAATCA
Sequence 3340
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATGGGCAAGGCTATAAGAGCCAGCAACAGG
TCATGTGGCCTCAAGGGGCTCGTGGCCCTACGAGGCCACAGAAGCCAGTGAACAGAGACA
AAGATTGCTTCATGGACACCTGTAAACATCCACAGGGAAGCTTGGAACCACCTGGGGAAA
TGAACCCTGAGCACCACAAAGTGGAGGTGACACCTGTGGAAAATGAGTATATAAATTTAA
AGATCTCTAAGCTGTGCTCGCAAATCAAGGCAGAACTCAGCACACAGTAACACGGACAAC
ACTAGCGTTCAATGACAGGTATTTTTGAGAGGATTGGTGCTGGATATGTATCTCTAACAC
TTTGAGGATGTTCTTTTGTGGGTAACATGATCCTTCTGTCTGCCTATGGAGGCTGTGTCA
GAGGTGGACATTTTCCAAGATTTGGGCTTATTTTACCTAGAATTTCTTTAAGCATCTTAA
TTTCGTTTGTAAAATGGGAACTATACTCCATAACTCACAGGGCTGTCATGTGATCAAAGT
GAAATCATGGAT
Sequence 3341
ACGCGGGATGATACATTATTAGCAAAGGTCTGAATATAATGCTTTAATGATTATTACCTT
TATACTTTTGCCTTTAGAACATTCAGTTGAATGTTCTGCATATTTCTAAGTATGTAGAAA
ATATTTTACAAATTAAAGATTTCATAGCAAGACAACTTTCAACAAAAAAGAAAGGTTTAT
TTTTTTCCTTTCTTTATTAATTTTTGGAATAATGAATTGGTATTACTGTTTTTCAGCCAA
ATCCACATTTCAAAAGTAGAAGTTAAATATCACTTTAATCCCAATAGAATTTTGGGG
Sequence 3342
ACCCAAAGATGTTTACTTGAGAGTAGTTTATTCCTTTCAGCTCCTCAGCTCTATACATTC
TTCCAGGGAACCGTAGATCTTGGTGCCTATTTGAGCCCCAAAGGATCAGTTAGTTTTACA
AAGGACAATCGTATTCTCTGTCACATCCTTTTTGGCCATGCCTCAAAAGCAGTCCCACAA

TABLE 1A

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TGTAAGCTACTGCTCATAGGCTCAATGCAGTCCACCTTCAAAGCAAGAGAAATAATTTCA
TGAGTAACTCCAACTGCCGCCTTGTTATAGGGAAGGCATCATGTTGGAGCCTCCCAGCTC
AAATTCTCACAGTGAACAATTTAAGTCTAAAGTTCAAAAGTTTCAATGGCATTTGGTGGA
AAAAATATC

Sequence 3343

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTAATTTTTTAAAGTTTTACCATTACTATAT
TCCAAAGAAAATTCTAACGTAGAAATAAGGGTCTGAATATGAGGACATGTTCTTCACGTT
GGCCTCATCATAATTTTCCTCTAGGTAGGCAGGAATGTTGATGGCCTCTACTAANTCTCC
TANCTTCCAGGAGGGTGAGTTTTAAAACATGGTTTTGTAAGAGGANAACTGAACAAATGA
CCAAGTCATGAGTTTCTTCTGCAGAGATTCTCCATCCCACTCAGAAATGACACTGAAAAT
ACTTCTTGGGGCANGAGGAGAGAAGAAAGCTATCTAAGAAAGAGGAAGATTTACATTTAG
ATATTGGCAGAGACAGGCCGAAACAGTTTCTTNCCATTTTTGGGNTTGCCCTATGTGTAG
AATAGAATCTACCCAACTATGTTTTACCTTTCAGATACACATACAACGGGGGCCCCATTC
TTGTCATTGTCTTCTTCGGGACAAAAGTATCAATGGNTGGGAGAAAGAA

Sequence 3344

CCCTTAGCGTGGTCGCGGCCGAGGTACTTATCAAAAATGCTTCAAAAATATTTACTGAGT
GAGTCAGGTAACAAAACGATTAAAATGCTTAGCCATCANCGTATGCCTCTATTTTTTAAG
GGCTTTTTATAAGCAAATACGGGTAGAAAAACATTGGCAGTTTGAGAGTAAAATAAACAT
ATATAACTCACCAACTGACTGATCAGGATAATTATCTGGGAGTCTCTGGGGGTAAAAAGC
CCCCAGTTTGTTCCATTTTACAACTCCCACCATGGCCTNAGTCAGGCCACCAACATGATN
CANCTAAATGTGGANTTTGAAAGGGTGTCCNCTGGAACCCATCNTATAGTANTCCNGCCA
ACGGGATCCANTAGTGNAANCANCCCCAAAACNCAGATATTGNTAAAAGGTCCAACNTTT
TNAACAANGGNGGGGTTGGGGATTTAAAAACCTTGGGTTAAAAA

Sequence 3345

TTAATGTTACTAACAACAGATCAGCGACAACAAAAACCTCCCAACATTCCAATATTTAGG
TATTTATTGGTGTCCGAGTTTCCTGGCAGTGTATGAATACATGGGTCGAAATGAACTGGC
CTCATATTATTTCAGGGTAGCATGGCTATGATTATTAAACACCACAGACACCCATTTGCT
TATTTTTGATTTTTGACATTCTAAGACATAGACTTTTTAAAAAATCTTCTTAAGGGGACA
AATCTCCTAATTTAAGACCTAGATAAACCCAAGATTTACCANTTTTTTGAAAACAGTGAT
GTTACTTAAATTCACAAGNAAACACCNATTCTNTTTCAGATATAATTNCTTCAATGGGAN
TNCGAGGAGGGGGTTTAAAGTTTTACAAAAATTGGAAAAAAATAACCTGGNCAATTAANA
TANCTGGGCTTACCTTNTTTCAANAANAAACCAATTTTTTTTTT

Sequence 3346

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAAATTATGAAGAGGTGGCGTTCCACACTGT
GAAATCTGAGGGCTTTTAAATTAGTATTTTTACTTATGCAACTCCTTTTTCCCCACGCTT
AACAGTGAACACAGGAAATATATTTTCACTCGTTCAGTCCCTTAATACTGAGCATCTCTT
CTGTGCCAAGCATTGTCAACATCTAGAGACACAATGCCAAATTCGAACATGGTCCTTGCC
CTTAAGGAACTTGGTCTAGGCCAGGCGCGGTGCTTCATGCCTGTAATCCCAGCACTTTGG
GAGGCCAAGGCGGGCGGATCATGAGTTCAAGAGATTGAGACCATCCTGGCCAACACGGTG
AAACACCATCTCCACTGAAAATACAAAAATTAGATGGGTGGTGGCACATGCCTATAATCC
CAGCTACTTGGGTGGCTGAGGCATGAGAATTGCTTGAACCTGGGA

Sequence 3347

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTCCAGGTGTTTTACCTGTATTTACATATGT
GCCTATGTTTGCTAATTTAATGTTTAGATAAACCTATAAGGCAAATATTATTCTTTCTCT
TTTACAGGTGAACATGCTGAAGCTCTAGGAGCTAAAGTAATTTATTGAAGGTTGGAAAGT
TAGAATGGACCAGAGTCCATTTTGTTTTAATTACACCAGGGGTTCTCTCTGAGGCATCAA
AATCTTGATGGATATAGGGCATGGGGGAAGTGATATTAAAACAGCANCAGTAGTANGCAA
CAACAACAACAACAGCATACATTGTATGATCCTGCCTAATTTCTTCCAACAACAACAACA
ACAACATACATTGTGTGATCCTGGCTAATTTCTTCCAACAACAACAACAACAACATACAG
TGTATGATCCTGCCTAATTTATTCCCC

Sequence 3348

TABLE 1A
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GGTACTTCTGTAGAAAGACCAGGTTTCTGGAGTGGTGGAGTGGTGGAGGGCAAGTTACTG
TGAATTGAAAGGGAAGTGAGAAAGTGTAGATAGTTGGCTAGACTGGCTTCTTTCAAGGAA
GGGGAGGAAGAAGAAACCACACTGAGGTAATAGGAGTTTTCACGGAGTCAGATTTCTTAA
GCAATGAGCACTTTGGAGAGGTAGCAGACTTGTGCTGTAGGATGTAGAAAATGGGAAAAG
AAAGAGAAATGCAGAGGTCAAAGAAAAACATCACCAGTTTAAAAATGTTGGTCTCTGTGG
TGGTTTAAAAATATTTTAAAATTATTTAACATATGAAGAATTATTTAACATTTCTCTCTT
CAAGAAATATGGCCAGGCCTGGTGGCTCACACCTGTNATCCCACACTTTGGGAGGCTGAN
GCAGGANGATCACTTGAGTTCAGGAGTTNCAGACCACCTGGCCAACATGGTGAAACCCCT
CTTTTCTTAAAATAAAAAA
Sequence 3349
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGCATTGATATGTTAATGAAAAAACTTTTG
GAGCTCCTTTACTTCATAGAAACAGCTAAACAAAGAATATTTTTAAAATATATAACTCTG
AAAGCTGTATTTTTGCTTCTCTTTTGTCCTACAAATTGTTATTGCCATTTGCATTTAGGT
TGAGTTTTAATTTTAAGTCTTGTCATTACTCTTAAAAAATGTAAATGGTATATTCCAGCA
TTTAGAACATCTCTCAAAGTTCTATTTTCTGTTTAAAGACTATTTCTCCAGTTGCTTTAT
AATTCCGTCATACAGGCTCAATCTTCTATGACATTTAACACGTCACTTGCAACAGACTTT
CACACTTATTAATAGAATCTTCCCAGACAAACCAATGTGTAGTCCATATTCTAGTTATCC
ACGTGTCCAATACTGTTAAAGGTGACATANGGAGTCAGCTGTTTTCTTTGAGGAAAATAA
AAAACTTCCCCAAAACTAAACTTAAT
Sequence 3350
CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAGGATATATTAAGAAAAGTGTTTCCCTTCC
ACTCCAGACACCCTCCCCAAAGCAACCTATTAACAATGACTATTTGTCCAGTTTCTTTGC
ATAA
Sequence 3351
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GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGCGTCTACTG
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT
GCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGT
GTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGC
GTTTAGGTGTTTTATTGGATATATTGGATTTGGTTATATACCATTATTT
Sequence 3352
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTCCATCTTTGGCCATAAGGAGACAATGATG
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NNTTTNAAAAAAAAAGGGGGGNCCCNCTTTTGGGGNAGGGNNNTTTNAAANCCCCACCCC
NGGGGGANCCCCCCCAANGGNGGGGGAAAAAANGGGNTAAANCCCNNAAACCGGGGNNAA
AAAAAAA
Sequence 3353
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TGTATGTATTAAAAATAATGGTATATAAACAAATACAATATTACAATAAAACACCTAAAC
GCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGAC
ACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAGC
AAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAATC

TABLE 1A
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CAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGCC
ATTCACTATCATATGTAAGTGTAACAATTGCACTTTTATGTTTTACATTATGTCCTGTCC
AATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTNTTTAAATCTATATCTTA
AACATTTTAAAGTATTAGCATCACCTTTTA
Sequence 3354
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGACGTTAATGCCGATGATAATTCATCTGATC
TACAGAATATTCACTTTAATAGAGAGATGAGAGTCTGAAATGACCAGAGGAAAATAGATA
CTGAAGCCAATATAGTCTTGATACCAAAATAAAATTAAAATGAGAAACTAACATGATAGG
TTCAAGGCCTTTTGGGAGCCTGTTTTCTTTGCCAGATTTCACATTCTTACAGCTTCATGG
TCTTTTTCTTCTAACAAATTAATCAGCTGAGAGAAGCTGTCTTTCAGTGCATCCATGTCA
TCCAGTGAGCAGGGCTGTAGAATCCAGCGTTTTCCACGTGCAAGTGGTTCAAGTTCAAAA
TATTTTTTGATCTCTTTGACCTGCCC
Sequence 3355
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGGTGCTAATACTTTAAAATGTT
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCATT
GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT
GCTTTGCTTTTGTGTGCT
Sequence 3356
CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTC
AAAAAAAATTATCAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTATCATC
TCTAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGA
TATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCT
CTAATCTTCTGCTAGTATCCCTATTAATTTAGCCTAATTAGAAGCTGGAAGGTAGGAGAG
CCTCCATGGGCAAAAAGCTGT
Sequence 3357
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATACTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGNGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCT
GCGTTTAGGTGTTTTATTGNATATATTGNATTTGNTTATATACCATTATTTTTAA
Sequence 3358
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATTAAAAAGCGTGCGTG
TGTATGTATTAAAAATAATGGTATATAAACAAATACAATATATACAATAAAACACCTAAA
CGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGA
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAAT
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGC
CATTCACTATCATATGTAAGTGTAACAATTGCACTTTTATGTTTTACATTATGTCCTGTC
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTAAATCTATATCTT
AAACATTTTAAAGTATTAGCATCACCTTTTAAATGT
Sequence 3359
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCATGTCCAGCCAAGGAAGTCCTAGTGTTGCG
CTTTCTACGACGACAGTCAGTTCAGTTGCTGTGCAGGCTGGGGACTCCAAAATCGTTATA
GCTGTCATAAAGGTAAGCTAACAACTTCCTTTTTTCTGTGCGGCTGTGGGCTTCTAGCTG
TGTGTTGAAAACCCTAAAGAACATTCCATGCAATCGGCAGGACACAGCATAGAGAAGACA
ACGCAGCAAGCACTCTTACTGCTTTCTAAAATGGGCTACTAAGAGAAACCTCTACAAGTT

TABLE 1A
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TCAGCAGTT
Sequence 3360
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGATTCAGATAAGGAGGAGTTGGCTGG
AGTGCTGCCCTGCCTTGGTATTTGGTGCACAGTCCTGGGAGGATCCTGGTGCTGGGACAG
TCCTGGTTTTGTAGATTCCTAGTGCCTAGAGGACACAACTCAAGGAGAGAAAAGGACAGT
TTGGGACAACAGGTGGGTGGGCAGTCTTGAAAATTGGTAGCCACAGACGCCCAGCAAGAG
TGAAGAAGGACAGGTGGCTTCATTCTGTGGTTGATGATTCCCTCATGGAAGTTCTTGTTC
AAGTTTGTCTGTTGCTACTTTGAAATTTATTGATNATTTGTATTCTTGTTCTTTTGACAT
TATTCTTTTNAATTTCAATGCCACTGCTTTTGTATGTAAATTAATTCATTTTTTA
Sequence 3361
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCT
Sequence 3362
CCCTTAGCGTGGTCGCGGCCGAGGTACCTAACTCATGGGATTGAATAAGTTAATGTATGT
GAAGCACTTAGGACACAGTGTTTACCATCATCACTATTATTCCTATTGTAATCTTGTTCA
GAGGTGAGGGTGCCTGAATTAAGGCAGTAGCAGTGAGGATGATAGAAAGAAGTGGCCAGA
TGGAGGCTCTACACAGGTGATAGAATTGACAGGAATTTATGATTAATTGGATGTCAGAAG
GGTAGATAAAAGAGAATAAAAAGTTGAGGGTGATTGCAGGTTTTGGATTTCATCAGCTTG
AGTGAATGGTGGTTTCAGTCCCTG
Sequence 3363
CCCTTAGCGTGGTCGCGGCCGAGGTACAAATATTTGGCAAAGGAATGAAAAAAGTTAGAA
AGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCAAGATACTTACAATCTAGGTCAGAGGTT
CCTAAATCCTTCTCAATGCCGTTTGCACTGGCCCTGAGGAAAGTGTGAAAATGAAGACTA
TTGTAGAGTCTTACATGAAGCTAAATTTGTTCATTTATATCACTTCTCTTTTATTATGAG
ATCATGTCCTCTGCAGGNTTTTTGGTATTAAAATGTCTTTTATGAA
Sequence 3364
CCCTTAGCGTGGCGCGGCCGAGGTACCCTAAAACTTAAAGTATAATAATAATAATAATTT
CCTCATTCATACATCCTGTATATTAAGTTGCCATATTAATTTATTGAAAGATTTTTTAGT
ATACTTTCCCACAGTTTAGCATTCTTCTAAGGCTCCTTACTTCTAACACAAAGTCCAAGC
TCTTTAATCTGACATTTAAGTTTTTCCACCAACAGGACCCAATTGATCTCGTAATCTTGT
CTTTTTTAATTCTTGATAATCAGCTTTTTCCACTAAAAAGCTGAAATGATTAAGGA
Sequence 3365
CCCTTAGCGNGGNCGCGGCCGAGGTACTNTTTAGGTTTTCTTTAGAAGAAGGAGATATGA
AGAAGCAAAAGAAGAATAAAGAACAACCCATTTTCATTTGCTTTTAGGAAACTCTGGTAA
GCTCATGGCTCACATAGGATTTAAGTGTTTGATCCACATGTTCAAGCTTCTCACTTTTCT
NACCTCACTTGGNATAGGAANGTATAGCCTGCCGTCTCCTTNAGACCTGCACATAGACTA
ACCCANGNCCACTAGATACTAGCCTTTGTGGAAAGACCNCCTGGAAAGTGATTCTATGCT
TGNNTGACTGTTCATGNGTTTAANCAAGGACTTCACATTGCCACATTACTTNCCTATTTC
ATTGGCNCAAAAGCCCTAATTCCCTTTTTTTCNTGTCCACNCAGGGGCAANTGCCAGAAA
TAAGCTTGATGAATTTATGGCCTTTTGGGG
Sequence 3366
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAAAACCCCTAACTCAGGAATAAGGACCATC
CTCCTCATGGTTTCCACTGTGCTCTGGCAGCAGAGAAATGGCCTGACCCTGTTTGCCCCC
ACTCATGTGATGCCACCTGAGATCTACCCCATTTCTATGAATGTCTGGCAGATTCCCACT
TAAAACAGCTGCTGGAATAAAGATCACATTGATCCATTCTGATGGCAGGTGGGGAAGCAG
AGACCCATAACAAGCACCACTCCAGCAGACCAGTCAGGGGGATGAAGATTTCTGCTTACC
TCCTTAGTGT

TABLE 1A
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Sequence 3367
CCCTATGAGCGGCCGCCCGGGCAGGTACTAGCAGTAGTTAAAATTACTGAGATATTTTCA
ATGAACCTTCAAAAAAGACCAACAAATCTATTTTTCTGTCCAATGTAATTTTGATACTTA
AGTTTATAACTGTGTTAAGATTAAGTCAAACTCCTTAGAAATGTTCAGAGAAATATTAGT
CTATATTTCTTATATTGCTCAAGTTCTATTTCTATAAGTGATAAATTATACAAAATCAGA
TATATGGCTCAGCCTGCAGAAGTTTAAGAAAAATGTTTAAACTAATTTTCATCTTTATTA
AGCTTTCCCTTAAGCAAAGATGAGCAATCATCTTAACTGTATCACCAAGGGGCTATAAGA
TATTTCTCAGATTTAATAAAATTTCAATACCTGATTTAACCAATTAATGCCAAAATCCCA
TTCCTTTCCTGTTTTCATTACACTTATATCTACTTTATCAGGACTGGCAAAAAC
Sequence 3368
TCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCACTGCACTCCAGC
CTGGGTGACGGAGCAAGACCCTGTCTCAAAAAAAAAAAAAAGAATGAATGAAATAATGCA
AACAAAACTAAAAGCATTTGTGCTTCAAGGACACTCAAAAAAGTTAAGAGAATCAACTGA
ATGGAAGGAAATATTTCCACATCATATATTTGACCTTATATCTAGAATACATAAAGAATA
CTTAACATCTCAATAATAAAAACACAACCCAACTTAAAAATGGGCAAAGAGGGCTGGGCG
CAGTGGCTCACGCCTCTAATTCCAGGACTTT
Sequence 3369
CCCTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT
TTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCAT
TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT
TGCTTTGCTTTTGTGT
Sequence 3370
CCCTTAGCGTGGTCGCGGCCGAGGTACATTCTTACAACTTGGAGGATAAGGACTACACAC
ATTCATCTACCCATACACACAGTGAAACACATGTGTAGCTTAAATAAAACAGACATTCTC
CAAGGATTTCTCCAATTATAATAATTGATTGGGCTTCAAAAACTCAAGGTTGAATTTCAG
CTTCTAACTTGATGAGAATGGCTGTCTTAATTCTGTCATTTTTTGTTAATTTTACTTCCA
GGAAGTCAGGGCTGTGATTTGAGGCTTTTTTCTCTAAGCTTCTGTGATGGAGATGAATTT
ATTAAAGTGGGGCCATAATGTCTTTTTGAGCAACATTAAAACTGAGTCATCAGAATTAGG
AAGTATCAGAAGTCAAGATCAATTTTCAAGAACAGGAGCATAAAATTCGAACTCAATCTG
TGTTAACATTAAGAGATTTAGAAGCTCATTCAGACTGATAACTAATGAATAATATAGCTT
TCATTTGTTGGAGACTTTATGTGAGCCAGCCAGNTATACATGTTATTTTATAATCCCCAC
AGTAACCCCTGGCAAGGGTAGTTATCAACCTCTATTTTTGCAGGTTTGANGGAAAATTGG
AGGCTTAANAAAATATGCCCATTTAAACTTTTTGGCTTGCATTAACCAAAACTACC
Sequence 3371
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAATGGTGTGAACCCGGGAGGCAGAGC
TTGCAGTGAGTCTAGATCGCGCCACTGCACTCCAGCCTAGGCGATGGAGCGGGACTCCAT
CTCAAAAAAAATAAATAAATAAAAATAACAAAAATAAAGAAAAGTATTTGATACATCAAA
AGACATGACATCTTGGAAGTGGATTCCAGATGATTCAGCGAAGCTTCTCTAGGTGCTGTA
AAAAATAATGACCTTACTCCTTAATTAAATAAGCACTCAAAATTTTATTCCAGTAGAGAG
AAAGCAGGGGCTGGAACTTGTTTGCTTGGTCCCTTTCTGGCCGTGTAAAAATGGGCAAAA
CTTGGCATGACCACATCTGTTTTTTAATTTCNAAATCTCTTAATTTTACAGTTCATTTCA
AACAAATTTTT
Sequence 3372
CCCTTAGCGTGGTCGCGGCCCGAGGTACTGAAAATACAGATGGAATTTTAAGCAAATTCA
TTATTTACAAAGCAAATAAGTGAGTCCTGGTATCTGACAATGGGATTCACCATAAAATTA
ATTTTAAAATTACTAGGTTTTAAATTTTTACCCGAAAATGATTTGATGCATTTTTGCATT
AAAAACTGTATTTATTACATGAAGTATAAATACCCCAGGAGATTAAATCCATCCTGCCAT
ATTCATGGGAGCCTGATCTAGCCCGAGGTATGATGCCCAGCAGGACACAGTGGCCATAGG
AGAAAGGTTAGCAGCCATTCAGAGCAGTCGGTGTTGTGCTGGAGGCGTTATAGGTATTGT

TABLE 1A
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GAGTATCTCTCTTCATGGTAAGTAGCCATAATATAATGACTCATAGGATTCTTCTCTCCA
AAGAACACTGTGCTGAGAGTCAAGTTATCGGCTCTGGTTTTAAGTCATCTAATTTACTCT
ATAAATTTCCTACAAAATTAGAATGTACCTGCC

Sequence 3373
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGCAGATCTGGCTTCACGTAAAAATAAGA
GAAATTAAGACCAATAGGTAGGCCACAGGATCTAGTTTTTAGCCCAGAGAAGAAAGCTTT
AGTTAATTTCAAAGTCACATAGACAGAACAGACTTCAGAGCTCCAATTTTTAGGAAACAA
GTAGGCAAAAAAAAAGAGGTTCTGGGACTCAGGTATATAAGAAGGGTGAGTCAAGTCACAG
CTTTGAAATTCTTCCATTGTCTCTAGCTTTCTCTTGACTCTCACCCACTAATGAAGATCT
CTAACCTCCCTAATTTCTAGCCCAAAATATAGATACACATTTTCAGACTCCATGTGCTCT
CTTGTTCTCTTCAACCACACCTNTAAATGAGAACCAGGGCAGATATAATCACTTCTATTC
AT

Sequence 3374
CCCTTAGCGTGGTCGCGGCCGAGGTACATGCTAGTTTATGTTTTAGGAGTTTAGTTTCTA
TTTCTCTGTTTAGCTAATTCTCTATCTTTTGGCCACTCCTTTTTTTATTCCCCTCAAACAG
TCGCTTTCTCTTCCCATCTCTATAGCAACTTGTAATATACTATAGGAATAATTATGGCAC
ATGCAACAATGCAACAATTTAATATATAAGTGCATTACATTTCTTATTTTTATTTTTCTT
AAAAAA

Sequence 3375
CGGNCTCATGTTNNATNATTNTAATGATNCATTTNATAANAAAGTGGCTNATCTGGANAG
ATTCACTTGTGAACCTTGATGATGTTTTATTTATCTTTGAGCGTGCTTTACTTCCCCTTG
CCAGTGCTGTTGTTTTGATAGACAGGGGAGTATTGTTGTCAGGTTGTGTAGCANTCATAG
ACCANAAGTCAGCAAACCGGCTTGCAGGCCACATTCAGTGGANACCATTTGTGGTCTGGA
GAACCTGAAATTTTTATTATTTTGCCCTTTTCANAAAACTTGCCAAACCTTGTCATTATA
CTGNAAACATGGTCTGAGACTCAGTTTTGCGCACAAATTTTGTTAAGCTTTAAAATGGTT
TTAACCTCTTGTTGTCAGTTGGCACCCTTCTTTTAAGATACCAGTATAGGAATTTATTTA
AATATAAACAGATTATGAAAAAAGTGTATACTCATTTCAAAACACCCAGGATGCCCAACA
CTTGATTTTAAAACCTGAGTCTCCCTCCATTTGAGTCTGCTCCTATAGGGTAACTGNTAA
CATTTTAAGTGNGTAAACTCTTGAAAC

Sequence 3376
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTT

Sequence 3377
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AATTTTTCAGTGTTCTAGTTTTTAAACAGTGATGTTTTTTATTAACCTATTTCATCCATT
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CGTTCACATCTTCCGTAAGATCAAGAAGGCTCTGGCATCAGATAAGATCAAATGTTGTCT
TTCTGTTTTAAATATGTGCCGCAAAGAGATTTGCTTACAATCTATTGAGAAAGCTAAAAC
AGAGCAGACATTGTCCTGTTGCGGGGTAGATGAATAGCCTAAGAATAGTTTAGACAAATT
CTGAAAACGAATTTACCTTANAAGATGTTCATGTTAGATCTGGTAAAAGTAACATGTTAT
TTTTCTGTCAAGCCCTTTTTGTA

Sequence 3378
CCCTTAGCGTGGTCGCGGCCGAGGTACCCAAATTCCGAAGGCCAAATATGTCAAAATGAA
CACAGGAAAATCAAACAGACTTCTATGACAACTCACAGCAGCCCAACATTCCTGTTAGTA
GCAAGGAGCTGACCAACAAGCAATGCAGGTAAGTAAATCATACAGATTGCAAGAGATGAA
CACCTTTTGGCATAGCTCTCTCTGCTGCCTCCTAAGGTTAGTCCTAAAGACTGAAGAAGA

TABLE 1A
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CAGTGCTGGGAAAAGCACTGAAGGTCCCATCCCAAACACTAGGAATAAGGGAAACAAAAA
GAGGAGCATCATTATCGTGGNTAAGGTNAAAGGAAACAAGCAGTAACGAGCCATANNTCA
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AGCTCCAACAACTTCAAAGGGCCTGTGAGATGCACAGCTGACTGGAAGTCAGCTCTTCGT
CTCTACTTGCCCGCCAGCTAAGCCCANAGCTCCAGCCTCCCTGANGCTCTTCCCTTCNTT
GTAAAAAGCAGGAATGAGTATGTTTTTCTTCAAAACCTCTTCTACTTTANGATTCTGGCT
TNCAGTGAGATCAATCCTATTCCTA

Sequence 3379
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCAGACTGTGACCCACCATCAGACAGGGACA
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ACAAAGACCTCCCTCAGCAGCTGAAGAATCCAGCCTCTATGGATGCCGATGGCTTTTATA
GGATCATTGCACAGTATAAGTTTATCCTAGCTTTTGAGAATGCAGTTTGTGATGACTACA
TCACTGAGAAGTTCTGGAGGCCACTGAAACTGGGGGTAAGTCCCTGTATATTACGGATCC
CCCAGCATCACAGACTGGCTTCCAAGTAACAAAAGTGCTATTCTTGTATCAGAATTTTCT
CACCCCANGGAACTGGCAAGTTACATCAGACGACTGGATTCTGATGACAGATTGTATGAA
GCCTATGTACAATGGAAGCTGAANGGTGAGATCTCTAACCAGCGACTTCTGACAGCTCTC
AAGGAACCGAAATGG

Sequence 3380
CCCTTCGAGCGGCCGCCCGGGCAGGTACTATCACTGAATTGAATGAGATTTTAGTCCAAA
CCAAAAAGTAAATATTTTTTAAAGTAAAATATATTAATGGAAGGAGAGTTTGCTATAAAT
GATTGAATTAATGTGACAGTTTAATTTATGAATTTTTATAGACATAGTAAATGCCTTCTC
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TCTCTGATATAAATAAATGTGAAAAATAACTTTGATACACTTTTTATTTGTTTGGATGAT
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CTCTTAAATNTAAAAACTTTTTCATTTAAATGACTATTTCCAGGCAATCTGAG

Sequence 3381
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TCAACAAAAACAAAAACACTCATTTCTGAACATTCAGTGCATTCATGATTAATCTTAATT
ACACCACAAAGGTATTTTTCAATGGTGATTTTGCGGGAGTGGGGTAACAGTTTCGAAAGC
AACATTGTCAGAAACATAGTTGATTTTAAAGGTTCTTTCTGGTGACCTTGACTTCTGCTT
TTTAGAAGACCTTACACAGAGTTGTATTTATTTCTCCTGGAATATTTCAAGCAATTCAGA
GTGAAAGGGTATACATTCCAATTTGCGTATGAGATAAAAATTTAGGTTACATTGAGAAGC
TATTTTCTTTAGTTACAGGGAAAAAAATTGTAGGGCTTT

Sequence 3382
CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGTTTTGCCCTTGTGTGCTCAAACATTTCTA
AGGTGTCCCAAGCCCTGGAAATAGGGAAGGGAAGGGTGGAGGCTTGGATCTGAGGTCTTG
CTGTCCACTCCCTGCCTGCCTGCCCGCATCTCAGGCATGGCCAACAGCAGCCCGTTGAGG
GGGGCTTGTCTGGACAGTTGCGTGTGATGGTGTTGAGCCATCACAGGGCANAGGTCACTT
GTGTCACCCCCATAGTCATTGGGTTGCANGCCATGGAGGAGGGACCTCCACTCCATGGGG
C

Sequence 3383
CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAAGGGTTACATGATAAGTAGTAACAAAAGC
AATCTAAGAAAAGGGGATAGGAAGTATATATAATGTGGGGATGGTTTGTGCTTTTAGATA
GGATAATGAACGATGGTCTCATTGAGGTTACATTTGCACAAAGATTGGAAAGGGATGAAG
AAGCCACCTAAGAGAAGGAATTCCAAGCACAGTGAACAGAAACCTCAAAGATACTGAGGG
TTGGAGCATATCTGGTATAGCGGAGAAATAGTAATATAAAGTCTAGTGTGGCAGGAGAAA
TGTGAACAAAGAGAAAAGT

Sequence 3384
CCCTTAGCGTGGTCGCGGCCGAGGTACAATGGTGTGATTTCGGCTTACTGCAACCTCTGC
CTCCCAGGATCAAGCGATTATCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGCATG
TGCCACCATGCCTGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTTGCCGCGTTGGC

TABLE 1A
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CAGGCTGGTCTTGAACTCCTGACCTCAGGTGATTCACCTGCTTTGGCCTCCCAAAGTGCT
GGGATTACAGGTGTGAGCCAACGCGCCTGACCTACAATATGTATTTCTGAGAGGACATAG
CAAGTCAATTGTATGATCTCTAATATAATTTCTAATCAGAGACAGAAAACTTATTTAACA
ATTTTCCTTTAAGTGTGGTTAAAAAACTGAGTGGTTTTTGGGAAAGATATTATACTTGAG
AAAGGACTTGAATTAGTTGGGTTGCCTTTGTTGTCTTCATGTCTGATAAGTTATCTTACT
GTGCCTACCTAATGAAGATTAACATTACTTATGAAATGTTTGATTTTAACAGAAACATTT
GACCATTTACTGGTTATTTTATTT

Sequence 3385
GGTACGCGGGTTAACCCAGACATCTCCATGCCTCCTCTGTATTGGAGGTGGAATTAGGCC
AGATCCAACATGGCATGTGAGATTGAAGCTTGGAGGACATGTCGCTTTGCAGGAAACAAT
CTGGTTAAGCAGAGGACCCGGCCATTTATTGGTGGGTTCTGGCGCTTTCAAGAATGTGAA
GAATGAGTGGCCAAAGTTAACAAAGGAGCATGCACAGGGATGGGGGTCACACCCACTTTG
TAGAGTTTAAGAATAGTAAGGGACCTACGGGAACTTCTCAAGGTAATAGGTGGCATGTCT
TCTTTCCTTGGCATGACACAGAATGTAAAGATAATGGGAGGATGAACCTCCAAGCCTGGA
ACTTTGGGAGAAGCTTCTCCTCTTGGAAGTGCCAGTACAGAAAAGTTCCCAAATAGAACA
GATTCCTTCATTCCACCTGAATTCAGAGAGAGATCCTGTGGACACATGTGCCTCTCCATC
AGAGACTGCTATCCAGACATTCATCTTCCCCTAAAAATGCACTTCTGCTGTGACTGCGGG
CCAATGTTNCCAGGATAAAACAGGGTGACATCCAACTGTACTTGCCTCAACTTGCCTTT

Sequence 3386
CCCTTAGCGTGGTCGCGGCCCGAGGTACTGAATACATTACAGTTTCCTTTGGTTGTTCCT
GCTTTAGTAGGAAGTTATGAAGATATTTAATATTCAAAATCATTTATCCACAGTCCTGGC
CTTGGGGAAATATTGCATTTTATCAAATCAGCTAGCTGCCCTGCTCAGAATCAGACATCA
GATGGGAGCAAGTAGAAGCTTATTTTTATATTTGAAATATTTCTTAAGTAAAGCTAAAAA
AATAAAGGCTTCACTGCTACATAAAGTGATATAGGTTTTATCATTCAAAAGCACAGAAGT
AAGAAGATATTGGAAAGCAGGCTTAATACTTGCTTCCTGAGTTCTTTCTATATATTTCTA
AATTATGTAATGGATGGTTTATCCTAAACTATTTTTCTAAATCATAATGGCCGGCATATT
TTTATTTATATTNTATTTAANCGAATAGAGTCATAACAAATGAACACATTAATAAAAATA
TTCAATGA

Sequence 3387
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG
CTGTTTTTCTAAAAGATTTCTCACATTGGCAAACTGAGAGATTTTCTTCTGGAACACAGG
AAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACA
GAACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATT
CAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGG
ACCGCTGTTTTGGA

Sequence 3388
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCTCTATTTCCCAGTCACGAGAGTGTAAAGG
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TACATTGGTCTGAGAAGCCAGGGATGGTCTGTTATGGATCATATTGCTGACTGTCTCTTT
AAAATCTCTCAGCCTGTTGGTGCTGCTGGATGGTTTGGAGGCATTTCTAGGAGCCTGCTT
CTCTTTCAGTGTTTCTCCTTCACTGTGGTATCCCGAGGCCTGGGGCTCATCGCCTTTCCT
CCTAACCCGACCAGAGCTCCTCTTGCGCTCTATCAGTGACCCTTTCTTGGATGTGTGTTT
CTGATTACATTCACTATCAGTCAGGTGTCCTGAATCTTCACT

Sequence 3389
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAA
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AGCCTCCTGAGTAGCTGGGACTACAGGCATGTGCCACCATGCCTGGCTAATTTTTGTATT
TTTAGTAGAGATGGGGTTTTGCCGCGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAGG
TGATTCACCTGCTTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCAACGCGCCTG
ACCTACAATATGTATTTCTGAGAGGACATAGCAGTCAATTGNATGATCTCTAATATAATT
TTCTAATCAGAGACAGAAAACTTATTTAACAATTTTCCTTTAAGTGGNGGTTAAAAAACT

TABLE 1A
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GAAGTGGGTTTTTGGGAAAGATATTATACTTGGAGAAAGGACTTGAATTAAGTTGGGTTG
NCCTTTGNTGTCTTCATGTCTGATAAGTTATCTTACTGNGCCTACCTAATGAAGATTTAC
ATTACTTATGAAATGTTTGATTTAACAGAAAACATTTNACCATTTACTGGTTNTTTTTAT
TTTAATATTTCAAGCTTTGGGGTATTTTT

Sequence 3390
CCCTTAGCGTGGTCGCGGCCGAGGTACTCCTCAAGGCTGGAGAAGCTACTTGGTTGGGTT
GTGGCCTACTGTGGTGCCATTGATTTCCCCAAACATTAAGTCCTTGCTGAGCCTCAGCCA
AAATCAACAGCCGTCATGTCTNCAATTACCTTGGAGCCCAAGCTGCCACGGGGGAAACAG
GGGGGTCACATTCAGCCTTACTTGGCTCCTTAAGCAGCGACACTATCTGTGACTAAGCAA
GTGACTGGTGCGATGGGGGAGGAGGGATGTAATGGTGGAGCTGNGAAAACTTGCAAATTG
TGGATCACCAAACTTTTTAATCAATCTTAGAAGGAAGCCTTTTTTTTTTTTCTCCCTAAG
TTATTTTNNAAAGTGCCCACTGGGTTGTCNTTTGGGGGTTT

Sequence 3391
CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAACCAACAAATGTAGACAGACCATAATCAG
TCACATACATAATTGTGGGTTCTAAAATATCATTTTGTCTAAAAAAAACTCCAACGAAAC
ATGTAAAAATAAGATTTTGGATAAATTAACTTTGACGACATTTGACTAACATTATCTCAA
AAATAATTCTACAGGAATCATTTTATGAAAAAAATATACAATCCATATTGGTTTAATTAT
GAAATTTTGACTCAACGAAACTTAAGAAACGAGCCAACATTTTACTCATGGTCTCTAGAG
GCATCTCCTTATTACT

Sequence 3392
CCCTTAGCGTGGTCGCGGCCGAGGTACAGCAATTAAAGGTTATTTTATTTCTCCAAACTT
AAGAGAAATAGTATATTCTATAGGTTAAAAATGTAAGGTCTGCCGTCTTATGATAGTCTC
AAATTAAAAAAAAAAACAGGCCAAAACTATCACATATTTAATATATTTCACTCCTAGTTGT
GCAAATCTGAGGCTTATCCAGGTCCACTACCCTTTGCTCATTGTCTCTCAAAAAGCATTT
AGGTCAGACAGAGAATATGAACCTTTTTACTCTGCCTTCTAATAAAAAGTTACACAGGGA
AAGAAAACGTTATGTACCTGCC

Sequence 3393
CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT
GTTTTTCTAAAAGATTTCTCACATTGGCAAACTGAGAGATTTTCTTCTGGAACACAGGAA
AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA
ACGAGACCAGATNGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATTCA
GCAACTACCGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGA
CCGCTGTTTTGGATTTCATTGAAGATTACTTGAAAAGAGTATGTAAACTTTACTCAGAAC
AGAAAAGCCATCCCAGTTAAAAGAATGGTGGATAAGA

Sequence 3394
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATAGATTTATATTTAATATGTTATATTG
GGAAAAATTAATATATTTTTCAATGCTCTTTGAGCCACACATACTCAAAATTGGGTTTTA
TCAGCCGTTTATTACACTGTGCCTAAGTCCATAGTAATCTGCAGTGAATCATTTAGACTG
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ATTCTAATAGGATTTCTTATAGAGTCAACATAAAAGATGCATTAAAAATCGAATAGTCTT
GGTTTCAAATACTGTGTGATGGCAGAAAACTC

Sequence 3395
CCCTTAGCGTGGTCGCGGCCGAGGTACCAGATTGCTGCCACATTGCTAGATGTGATCAGG
TCAGGGGAGGAAGAGAGGTGTCCTTCCTTGTATGTCTATGTCTCCCTGTGAAGAAAGTTT
TCTGAGAAGCCTGCAGAGAGTTACTCCTCATATTCCCGCAGCCAGAATCTTGTCAAATGT
CCCTGCCTAACCCAATCTTTGGCAAGGAGAAATGCAACACCATGATCAGCTTAGATGAAC
CAGGATGAACTCACAGAAATGTGGACCAGATTTGCTTT

Sequence 3396
CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGGTGAGAAGTGTGTGCTTCCCTTCC
TGGGAGGTGGGCACCTGGGGCACTTGGAGTATCTGAGGAGCTCTCCAAACATGAGATTTT
TGAGCTCCAATTGCAGCAGATGAATGTTTCATTTCATTCAACACATTCTAAAACATCAGG

TABLE 1A
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AGATCTCAAATGTGCGTAGAAGAGACACTTACCTACCGGGCTTGCACAGCCCTGCCCTTC
ACCCGTTCTCACACATGGCTCCTTCCTACCCGTCCCTCCATTTTTCCCACCCCAAGTGAT
TTTGAAGCAAGTCCCAGATATGATAAAAGATAAAATTAGGCTGGGCACAGTGGCTCACAG
CACTTTGGGAG
Sequence 3397
CCCTTAGCGGCCGCCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCTG
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GATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAA
CGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATTCAG
CAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGACC
GCTGTTTTGGATTTCATTGAAGATTACTTGAAAAGAGTATGTAAACTTTACTCANAACAG
ANAGCCATCCCGAGTTAAAAGAGTNGTGGGATAAGGAAAAAGATTATCTAAGCTGGAACC
NGAACCAAATNCCAAGACCAGGAGAATTCACATCTTNTGGGAAANGTTTCACAGATNCTT
TCAAAAGACTTCTGAANAAAACNTTCNCCTGAAAAACGTTCAGAAAAAAAT
Sequence 3398
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACCATTTTTTCTGCT
TATTGCACCCTCATTTCTAATTTGTTTATAATTTCATGAGATGTTATCTTCTTCACATTA
TACATTTTATTNGTTTTTACTTTNACCTTTACTCAGGATGTATAATCATGATAATTCAGT
TTTTATAGTTCCAATAATGTCAATTACTCAGCTTAATGCTTGTCCATGCTGGACTACCCA
TGGCTAAAGCAATATTTTCGATGTCTCTTCCTAAATGTGAATGGGAGCTCATGCCAGGAT
GTCTTAAATTGGTTCTTAATGGTTTAAATGGGAAGCTCATTTAAGATGCTAAGAAAGTAT
CTTGCCCTAGGACAAGACTGAGTCCATAACAGTAAAACAAATCTGCTATAGAAGTTGTTG
TATTTCCCCAATGGATGG
Sequence 3399
CCCTTAGCGTGGTCGCGGCCGAGGTACGAGAAAAGTGACTTAACATCCAAATAAAGAAAA
ATAGTTAGCCAATCCATTCATTATGTTGATATGATCAGGTCTCCAAGATGCATTTAATCA
ATATATTCTGCCTTGATTAGCCATATTGAAATACTTGAAAACATAACCTACAATATGAAA
ATCAGACATACTTATAAATGCCAATAGCTTTTATTTAGAGTCAACAAGTGATGAAAAAGC
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TCTATGGGTAGATATAGCCAGGGCACTGGAGGAACACGAAGGTGAATTCCAGTTGGGTAA
CACTGGAGAATTCCAGTTAAAACAAGGGTGACTAAAATCTAAAATACACTGTNACATAGA
CCAAAAGAATTCTTATTGTAGATTAAATGTATGTAGAAGATATAGAAGGATTATTGNGTC
TGGTTCANAATGTAATTTCATGCCCTGAGAATTTCCTTTGAAGGAAAAAATGGGTCTGGG
ATCCCCATTAGCCNAAAGCCCCTGGTTTTGCTGGCCAGTTTAATTA
Sequence 3400
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TCTGAAACTCAGGAATCAAAAAATACCGACAGGCACTGTTACTTTCAAAATTCTTTCTAT
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AGGAAATGAGGTGGCTAGGATATTACCCAGCTGGTGGGTGACTTGGGCAGTGTGTTCCTG
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TGTANAACATGGTGGAAAAATAAAATTTATT
Sequence 3401
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AATCCAGAATCCCCAAGTGTCTGTATTGCTGGGGGTGATCATGGACTGTTATTGACCTCT
TGGTGTTTGGAAGGCTGCTTTTAGATACTCCTGAATCTGTTTACCACATAACTACATGTA

TABLE 1A
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TTACATATTTCATTTGATTACTTTCTTAGTTATGGTTTTCTTTTCTTCTTTTTGGAGATG
GAGTTTTGCTCTTGTTGCCCAGGCTGGAGTTGCAATTGCGCGATCACTGCAACCTTCACC
TCCCAGGTTCAAACAATTGTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAAGATGCC
TGCCGNCACGCCCAGCTAATTTTTGTATTTTTAGAAGAAGACGGGGTTTTCACCATGTTG
ACCAGGCTGGTCTCGAACTCCTGACCTCATGATCTGCTCACCTTGGCCTCCCAAAGTNCT
GGGATTACANGCATGAAGCCACTGCACCTTGGCCATATTTTTTTT
Sequence 3402
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCCTCCATTCAGCACCAAAGTCTCAGGGGC
CTACCTGTCACTCCTACGGGCACTCGACAATGGCATGGGTGACCTCAACAATCCGGGGGG
GCTACGGGCATTTCAGAATACCACNCGTGGAGGGAGGTATACCTCAATATTTCTTTTTTT
TCTTCAAGCTGATATAACTTGCTGTTCCCTTTGAAGAAATATGTGCCATTTTTCTAAAAA
AATTTTTAAAATAGTTCACAAAATTAGAAAAGCTTAACATTTTTTCAGCACTATTCTTAT
GTAAGACTGAGAATAA
Sequence 3403
CCCTTAGCGTGGTCGCGGCCCGAGGTACTCAAGTCAGTTTGCCTCTCGCAGACATTCAAG
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AAACCTCTCTCAAAGGCCTTGTTTTCCAGCTAATCACTCTCACTGTCATCTTCTGACCAT
TAGAACTCTTGCCTCTCCTGGGGCCAGTAGCCATCTTATATCCTAACCCCCGACTTCTCC
ATCTTCCTACTTTCCAGTGGATTCTGTTTAAGATTTCATCCTTTTTAGGTCAGCAGCCCG
CTCTCTGGGTCTGTCATGATCTTTGCTCTCTGCACAATTTTCAGGTAGAAAACTCTAGGG
CAGAGTTTCTCTGCAATTTGGTGTATTAGATCTCAGAAGGCTTTAGGGGTAACACAGGAA
ATGTTGGTGACCAGATTTGCGCATAAGCATTATTTGCACATAAGCATTATTTGGTTTGGG
CCAGATTTGCACATAAGCATTATTTTGTTTGGCCCACAATTGTATTTTCAAAAATCTAGA
AATTTTTCATAATACAGATTCTTGGGCTT
Sequence 3404
CCCTTAGCGTGGTCGCGGCCGAGGTCCAAGTGGGAGCTGAAATAGAGCCAGTGTTCTATT
CTCTAAGCCTTAGCCCCTGGGTCTGGGGCTGCATCACCCAGAGGAAGAAGTTCTCTTTCT
CTGATTAGACCATCCAGAGGAAGTTGCCTTAATTAAGGTATTACAAATGTGCCAGACCGC
GCTACTAGTGGCCATCCCGTGAGATTTATTGAATGACCATACTGTCTTCTACATTAAGGG
TTACTTTCAGGTATTGGAACAGCCATTGCCAACATCAAGATATGGACTGTTTTATAAGGT
AATATGGCATCACTATGGTAGGAAGGCTGAAAAAAAGGAGGATGGGCTCTTTCAACACAC
TCCTGGTGGCCTCCTGGTTTCCGTCAGCAGGGTATATTTGGCCACAAGGATTCTTTCATT
TCAGTAAGAATGGATTTTTTTTCCCTGCATTTTTCCTTAATACCCTTGGAACCACCAGAA
GAGAAAATCTTCCAAAATTTTTGAAAACTAATTTATTTCCTGACCAAAAAATTAATTCT
Sequence 3405
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTTTCCACTTTGTGAGAAGGACAATCT
GCCTTTGCATGTTTATTTCTTCCTCGTTTTAGGGTCAGAGTAGGCAGATATTGGTATCAT
GTATCAATTATTGTTAACTGGTCTTCTGCAGCTAGAACAGAAAGAAATACATTGACTTAT
CTCTATTTGCTAGGTCTTGTGCTGAGTCATGTTGCATTATACCATTTAGTTCTTTTGTTG
AGCTCCTTTATTTCCATTTTGTAGATGAGGAGACTGAGGCTTANAGGTAGTATGGTGCAC
CTAAGGTCAAGCAGCATCAGGATTTGTACCTNGGGCCCGCGACCACNCTAAGGGCGAAAT
TCCA
Sequence 3406
CCCTTAGCGTGGTCGCGGCCGAGGTACATCACCCTGCTGAGGGACATCCAGGACAAGGTC
ACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAAC
TTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCC
AGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGC
TCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCA
ACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACCATAT
TCCCAGGACAAAAGCCCANCCAGGCACCACCAATTTACCAGAGGAACAAA
Sequence 3407

TABLE 1A
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CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCTTATTAGTGAATAATGATTCTCTAGTCA
TAATAACTTAGACATTACATATAAATTTTAAGTTAAAACTACTATAACAATATTGGGAAA
AATGAAAAAAGGGAGTAGATAGTGTAAAAGGGCCATATCCTTCTCTACCACAGCAGGAAG
TGAACAGATAACGTCTCAAATCAAAAAACTGTAGTATAGGCTTTCCACCCCAGCTCTGCC
CCGCCCATATAGATACCTATTACAGAAGGAGGGAAATAGCTTTTAAAAAAGGAGAGTTAA
ATGAAATTGCCT

Sequence 3408

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTCCAACTGCCCTGCGTGCAGAAACATCCT
GATTGTCTTCAAACTGCAGATCTGCAATGCTGTCGAAAAGTTTGGCAAGGTGACATGTTA
CCTGTTTAGGCTGAGCTCCTTTTGAGAGAATGTCAAGTAAATCAGCAGAAGAGACGAAAT
AGAAGCGAGGAAAGGCTATGCGCTTGGTTTCCAGGTATTCAGCGAGAGCTTTTTCACAAA
GAGAAAGCCTGGACTGTAAATCTTTAAGCTTTTCATAGAGATTAGGTCTTGCACG

Sequence 3409

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAAGCGAAACTGAACCAGGGATACACCAAGA
GGTAAAGTCGGAAACATCCAGAGAGATGGGAGAGTTTTTCAAAGATTTGGAGGCCCCTAT
GGATGAAACGCATAAAGAGTCAGACCTAGAGCCACCAGAGGAGGCTAAACCAAATGTTAC
AGAGGATGTGTTCCTAGAGTCAGCTATGGAAACANGATCCAGATCCAGTGCCACCAACGG
AAACCATGTCTGAGGTTTCGGGGGCCACAGTCAGAGAGAGAAATTTAGAATTACTAGAGG
AGGAGACTGAACCGGGGGTTCCAGAGNGAATCACTTATAGTGCAACATGAATGAGACAGG
GTCTAGAGCCTCCAGAGCAGACCAAACCAA

Sequence 3410

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGAGTGTGGCTGAGATTCGACGCCCACT
CTGCCATCCTCTGCTCTCCTCTAGAGGAAGTTGCTCTTGGGGAGCTGAGTTCCTGAAACT
AAGCAAATGACAAGTGCTCCTCCAGCCGTGAGATGAGCCAGAGGATGGAATGCCACAGGC
CCCACTTCGTCTCCCAGCCCTTCATCTTTCTTCCATGTCCAAAGGCGGCTCCCCAGAGGC
CAAGGGCTCAGCTCTTGTGTTCTCTGAGACTGTGGCACAGCTCACCCTGGCTTCCTTAGT
AGGAAGCTTTTAAGAACTGCTCTTGTAGAAAGAACAAACCCTAATCTAGCCTCCAGCAAA
GAGCCAGGATCATGCTGAACTTCCTGTGAAGCCTTCGTGGGGGGGATCNAGGCTGGAGAAA
GTGCTGCTTCATTCTGAGGTCTGAATTTCCTGCTGCTTGTTCACAAANAATGCTTTTTTA
ATCTTTTAAACTTTTTGGTTTTCCCCCACTTTCCGA

Sequence 3411

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGTGCACATTGTGCAGGTTAGTTACATATG
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TGAAACAGGTGTGCCCACAAGTTCCCTCGGTGGCCTCCTGACCCATAAAACATCCTATAC
TTCTACTGCCCATTACATTCCCCTGTTGAGAAAAAGCACAGAAGGGGAGCCATCATTTTC
TGTTTGCACATTTCANTGACTTTGCGGACACATATGGGAAAAGGGCATGAAACTGTAAGT
GATAGAACTTACACTCATGGGTCTTGAAAATACTGCACTGCATGAAGCCTCACTTTGAGA
GAGAGTTCTTTAACTCTGAGGTTGTTTTCAAGTAACCAAACTTTAATTANAAAGTT

Sequence 3412

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGGGATGTTGCCCCTGTAAGGGGATGTTCAG
GAGAATATTGGAGAAGTCCTGTCTGCTTCTTTGAAGCTCCTTTTTCCATATTTTAATTCT
TGTTACTGCTGGAAGTTGCACTAATACCGATGTGATGAGAGTTTCAGTCCTTGGAGCCTT
TTATGAGGACTGTCTTTTTATTGCTGGTTTTAGAAGCTGCTAGAATACCATAGGATATTA
CTTCAACTAGGATTATCTAAACCAAAGCCACCTGATTAAATTTGCTCCAAGAAGCACTCT
TGTTATATATCCCCATCTCAGACCGTGTTCTACTAGTCTAGCAGGACTTACTAGAAAAGA
TTAGACAGTGTATTATGTTGGGTAAATAATGACATTATTCCAATGTCCAAATATAGTTCA
GTGTCCAATATAAGTTTAAATGTAGTTCAGTGCTGACAGTAGAAAAATCCCCCTTTTCAA
ATTTTTTACTCTNCTCAATGGTCCCTCCCTATGGTTTCCTCTCCTATTTTAAAGAAAAAC
ATTTTATTCCCTCAAA

Sequence 3413

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAAGCAAGCCTGGGCAATGGCGGGCGCC

TABLE 1A
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CTCTGCTAACCTTGCTGCCGCCTTGCAGTTTGATCTCAGACTGCTGTGCTAGCAATCAGC
GAGATTCCGTGGGCGTAGGACCCTTCCGAGCCAGGTGTGGGATATAGTCTCGTGGTGCAC
CGTTTTTTAAGCTGGTCTGAAAAGCGCAATATTCGGGTGGGAGTGACCCGATTTTCCAGG
AAGGCACTGGAGGAGTTTGCAGAAATGAAAGAAAGAGAAGAGAAGAAGGCTAACCTCGAA
AGGGAAGAGAAGAAAAGAGATTACCAAGCCCGAAAGATGCATTACCTCCTCAGCACAAAG
CAGATTCCAGGAATATACAATTCACCCTTCAGAAAAGAGCCTGATCCAT

Sequence 3414
GGCCGCCCGGGCAGGTACATAGGTTGTGTATCCCCAGCATATATTCCTATATTGATAGGA
AAAAACTGAGGCTCANAGTCTATATATTACTTACCTATGGTCACACATTTCAATTTATTA
TCAGTAGTGCCTATTCTTTGGACCCCATTATATTTGTAATATGGAAATATAACAAATTAT
TCAATAATTAAAATAATTATGAGGTTTCTTAGTTGTCAAGGTGAAGTTAAGTTACAATTC
TGTTTTTATTTCAAAAGAGAAAGGCTTAGTATGTTTTACAACAATTTTCCATTCAGTGTG
GTATATATTACACTGCTAAGAATACTTTGGGGCCAGGCACTGTGGCTCCTGCCCATAATC
CCAGCACTTTGGGAGGCCAAGGCAGGCGGATCACTTGAGGTCAGGAGTTCGAGACCAGCC
TGGCCAACATGTCGAAACCCCGTCTCTACTTAAAAATACA

Sequence 3415
GGTACGCGGGCATCAACCTATATTTTTTGACAAACCCTCTTAATAAGTTACATTTCTTTT
TTAAAAGAGCATGATAAAGATATTTTCAGTCAGTAAAAACAAATTTTTCTAACTGCAGAC
CCAATTTAGAGATATAATTCAGGCAGAAACAGTTATCAGATGAAAGAATTGAGCTGTAAA
AAGAAAATAATTGAAAAAAAACCCAGAAAATATGTCAGTAAAACCAAATAATTATTGAAT
ATACAAAGCAATAATAAAAATTTACGAGGCTTAAAATTGAGAAAAATCTAAAATATAAAA
ATAATGTATAAGTCAGAAATAGGTTGATCAGGGTTAACGTGTTACAAAATTCTTGTATTG
TTCAAGAGGAGGGTAAAGATAAGAATTGCTTTAAACTTTG

Sequence 3416
CCCTTAGCGGCCGCCCGGGCAGGTACATTGCTGAAGGAGATCTATAAATTTTTGTGGGAA
AGCTAAGAAGTCTACCAGAAGACCTTGCTGGAATTTTAAACTTTGAAAATCTTCCTCAGA
TATAACAAGGTTATATAAAAAAAATGGATCCGTGTCATCAGTCAGACGAATAACTAAGTC
CTTTCTGTGAACTGGATTANAAACTGATTGTAGTTCAATGCTCATTCTTATACTTACTCT
CCTGTAGTCCCAGCTATTTGGGAGGCTGAGGTTGGAGAAATGCNGAACCTGGTAAGCAGA
GGCTGCAGTGAGCCAATACTGCACCACTGCNCACCANCCTGGGCAACAGANACCCTCTCC
TCACAGTCTTTGCATTTCACCTGCAACGGGACTAGTTGGTGGA

Sequence 3417
CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGTCTATACAGTCTCTATGAAAAACAAAAGC
AAAACTCAATCTATTATTAAATGTTACCAAGTATTAGGAAAACTGAGGACACTCATCCTC
CTGGTTCCTGGACAGAGACTACGTTACATAGTGGAATACACCAAATTCTTCTTTAAAAAG
CGCTAGAGTCCTGCTGAAGCCCTTTTTAATTCAAGTTGTGACTCAAGAGAAAAAAGGAAA
AGCCACTTCTACATTAGAATAGAAAAGGACACAAAAGTAATTTTATCCATTATGGAGAAA
AACTGGGATGCAACAATTCCAAATGAAGAGATACAGTTACTTANCATCTATAAGATNAAA
ATCATGTTTT

Sequence 3418
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCATAAGGTTAACCCAGGTTCAAGGGAG
TGGAGAAGAGGATGTCTTANGATGAGAAGAGCAGTGATAACCCGTTGCAGAGAATATGGC
ATGATTCTTTGGGGAGTCATTATCTGCCACAATCAAAATAACTTTAGGATAAAAATGTTT
CCTAAAAAGTCTGAATTANAAGCATCATTGGGTGGGAAGATAGCCGAGAACACTCTGGGC
AACATAGTGAGACCCCTGTCTCTACAAAAAGTAAAATAAAAATTAGCCTGTAGCCAGGCC
TGGTGGCACATGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCTGCANTGAGC

Sequence 3419
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCAGAAGGCTACGTGATGCCACCTAGAGATA
AATGTGTAGAGAAGGATGAGTTCTGGGAAAGGATCTCTAGACCTGCCAATATTTATAGAT
CAGAAAATGATGAGGACTTTGGGAAGATCCAGCCAATGACTTGATAGGACAATAGGAAGA
TTTCAGAGTCCTAGAAGCCAAGTAAAAAAAAAAAAANTTTNTNAAAANCNATANGGGGAA

TABLE 1A
91/599

AAAAAAAAATTGTTTTNAAAAATCCNCCAANTTTTTNAAANTNTTTTNGGGGNTTTAAAA
CCCC
Sequence 3420
CCCTTTAGCGGCCGCCCGGGCAGGTACGCTGGGGGAGCCGGATATATAGAGTGTCACGTT
TGGGAGCCGAAAGACTGGAGCCGTTTCCTTGTGGCTGGAGCGCTTCCCGTAGCCTCGGGG
AAGGAGCAGGATTTAGAGGACCACTAGTTGGACCCCATCCTCGTGCTGGAGGAACAGGAA
CCTCTTTCAGGAGCTATAAAAGAAAGGGAGGAATCATGTCCACAATTGCAGCTTTCTATG
GCGGCAAGTCCATTCTCATCACGGGGGCCACAGGCTTTCTGGGCAAAGTGCTAATGGAGG
AGCTGTTTCGCACCAGCCCAGACCT
Sequence 3421
CCCTTAGCGTGGTCGCGGCCGAGGTACCTCCCGGGGTTCTACAGTTCCTCCTGCCCACTG
GCCAGGGGGAATCTGGCGGGAGCCTCTCGGTGGATGCTGTCACATGACTGTGCCTTCTGA
AAGAACATCTGTGAAGAGCAGTTTCTGGTGTCCCTGAGTAACCCTTTTCTAACAATTCAG
CCAGTGTATTTCCTCCAAGAGTAGAAAACACTGGCTTGGAAAATCTAGTGAATTTTCAGC
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NATGGGACATGGGCAAGGCTTCTAATACTTTCATCCCATGAACATAAATTTTGATATTTC
AGCTGCAGATTTTTTCAAATATACAATGACCTGAGGCCAGGAAAGTTACCTTGTCAATTT
ATTTTCTTATAATNTGCATGTCTTATAAAAGTAGACTACAGCAGGCGTGGGACCAAAAAC
CNGAACAAAAGTCTAACTGGATTGAAANCTTATTCCTTAAAANAANACATTGGGTTCTTA
NANACCTTACAGCTTTGCTTGNAGTTCTCATATTACCTTCCTTTTGTGGGAAAATNTACC
ANAAAAAAAAAATGGAGGANGGTGAAAAGGNGAAGGTTNTTTGTGGGGAAAAATGGTTAG
GNNCAATTTGGTTTACCTCTTCCCAATCCCNACCCTGCCCGGGGGG
Sequence 3422
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGAGACGGAN
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CCTCCCAGGTTCACGCCATTCTCCTGCCTCANCCTCCCNAGTAGCTGGGACTACACGCAC
CCGCCACCACACCCGGTTAATTTTTTTGTATTTTTANTAAAAACCGGGTTTCACCGTGTT
AACCANNATGGTCTCTATATCCTNACCCCATAATCTGCCCCCTTAACCTCCCAAAATGGT
GGGATTACAAGCCTNANCCACTTGCTCCCANCCAACACTNTTTTTATTATTAACAAATAT
ACTTTCTACCTNANCCACATTCTTNCAAATNCTCAACAATTCCAACTTTTTAAAAAATTC
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AATTTTATTTTTACCATTTTAAAATAAAAAACCCAATTNNAAACCCAACAAACNTTTCCC
AACTTNCAAAATTTCCCTTTAAAA
Sequence 3423
CCCTTAGCGTGGTCGCGGCCGAGGTAGTAGAAAGGAAAAAGGAGGCGGGCCCCCTTCATT
CAGTAACCAGTGCTAGGGGGTAGTCCCCAAGAGGTGGGATAGCCTGCGCTGGATTGTAAC
TAATGATCGNTTCAGGCCTAGAGTATTTTCTCTAGTTTCTGGAAAGTACCTGCCCGGGCG
GCCGCTAAGGG
Sequence 3424
CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGGGTGCAGGTTCAGACAGGCCCTGAGCA
CAGCCTGTCACCATCCTCCATCTTCCCTGCTGTCTTCTGTGTCCCCTGAGCTTCCGTGAG
GGTTTGTCTTTCCTCTGTGGCTCTTTAAACCACTTCCTGTCCCTAGGAGAATCTCCCCCG
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TTAGCACCACCCAGCCTCCAGCAAGAACCTGAGGCAGGAGAATCGCTTGAACCTGGGAGG
CGGAGGTTGCAAGTGAGCTGAGATCGTGCCACTGCACTCTAGCCTGGGCAACAGAGCAAC
ACTTCATCTTAAAAAAATGAAAATAAATTTNAAAAATTTTGCTTGATTTTATTTTTTTAN
Sequence 3425
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ACATTGAGACTTCTGGTCTTGATGGATAGAGCNTTTTAANNCANAGGCAGGTGGTTCGGG
GATATGCAGAACAGGACTCTGAAGTTGATCCTGAGAAGTATTCCAGTAGGATANAATGTG
AAAGCCCAAACAATGACCTCAGCANATTCCTAAGGCTTCCTAGAACATTCCAACAAAGAN

TABLE 1A
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CGCGTGGGTCTCANTAAAGAAAATTTGTTGCTTATAGGNTGCACCA
Sequence 3426
CCCTTAGCGTGGTCGCGGCCGAGGTACCATCTACTACAGTCTTTGTTTCTGTTGTAGGGT
TCCTTCTCAAGGACTTATCCTAGTTTAAAAATACGACTTTTTGCCCAAATTTCATTTGGG
TCCTACTGCCCGGTTGGAGAACCCTTTGGCTTTCTTCGATCCTTCA
Sequence 3427
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTATTATAATAAGATCGTAGAGCTATTT
CTTGAGTCAATTTTGCTATGGAATATTTTTTACCATCTTTAAACATTTGANAAAATTCAG
CTATCAGCCCATANTAAATACATATGCCTGGTTAATATTTTTAAANCTTTATAAGGGTTT
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ANATAANATCTTATTGCTCACATGGATTGNAGGGCTTTCTTAAANAAACAAATNTTAGCC
TGNGNGTTGGGACCANTCCTCTTTTAGNGGGATTGTTAAANTCTTTTCCCCTTNCAAGGA
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CCAAATTAAAAGGGTCAANGGTTTATTCCTTAAATGNNAAAAAAACTNTTTAAANAANAA
GGGAATTGTNANTGTNTNTTTCAATTTNNGAAATTTTTTCCCCTTGGCCAAAATTTTTTT
TAATTTTAAAATTTTTTN
Sequence 3428
CCCTTTCGAGCGGCCGCCCGGGCAGGAAGTGTGATGATAGCAGCACCTGGAAGCGGCTTT
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CCTCTTGTTAGGTTTGCAGAGTATAAATGACAAGCTACAGGCTTTTAGAAGGATGCTAGG
GCAGTGGTGCAGAGATCAGAGTGGAATTCGAGGGACTACAACAAGGAGGTAAGTTAGGAG
GCTGCCAGCCATGAAGCCTTAAACTAGGAGGGTGTGGATGGAAACAGAACATGGTTAGGT
GGGAGATACTGAGTTAGCTGAATCAATGCAACTCAGTGACCCA
Sequence 3429
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCTGGGTGTGTATATATCCAAATATAAACAG
TTAAGAAGAAGTGGAAGAGGGATTTTACTCCCAAGTATTCCGACTTCAGGGCTTGGGCTC
TTCTATACTAAACTTTCTGAAAGAAATGCTAAGTAAAATTACAAACTTCGAGAACATAAT
TTAGAGAATATTAATGATATATATAATTGAGTAATAATGGTAATATAACTAATAAGAATC
AGGAAGTAAAGAAAGAAGTGGCGGAAGAATTGGAAGAGGATCACTTCCCTAACCTTCATA
ACAGTGATCA
Sequence 3430
CCCTTAGCGTGGTCGCGGCCGAGGTACTCATTTTATACAGGCAAAAATATTTTTGCAAAA
ATGAAAAAATATTTTGAGGATTGTTATATTCCAGATATATTTTTATATTTTTAGCTACCA
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Sequence 3431
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TAGAAATTCTTTTACTTAAAATTTCCGGNTTAAGTNAAANCCTTGTCAATTTTTTTCTGC
CTTAAAAAATNNTACTTAGATTAANGTATACTTTCCT
Sequence 3432
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AATTCAAGTGTAGCACAACTAAAACTTCTGGAACTGGGGAAACAGCTATAAAAATAATAG
CAAGCAAGATTTGGGAACCAAAACAAAAAAGAAACCAATAGTTGAAGGAAAGGCTAGTCA
CCTTTATTAGTGGCTTGGAATAACAAGTAGAAGAAATAACTCAAAACAGACCACACTATA
AGGAAATTGACATTGAGATTAAAAAAAAAAAGACTTAAAANGATTAGAGATGCGTANCTC

TABLE 1A
93/599

CCAAAAAAAAAAA
Sequence 3433
CCCTTAGCGTGGTCGCGGCCGAGGTACTCATACTCACTTTTGAGATGAAGGGAACAATAC
AATCCTTGCTGGCAAACCCTCCCCTCACTGGGACAGAGCACCCTGTCATTCCTGACCTGG
CTCCTTCATGCGCCCCTATTCCCATGTGTCACCATAACTGCAGTTCTCTTGTTACTCTAT
TACAAGTAGATATGCTGCCAACATAAATGGGATTTTGAGTCTGGTGGGAGAATGCAGGAG
TCATTTTGAAAGACACACAAAATAGAACAGAAATGCTCACTTGGAAGGCTGATCTTCTGG
GATAGTTACCTTTC
Sequence 3434
CCCTTANCGTGGTCGCGGCCGAGGTACTGTTTCATGTTATGCTGACAGACCTATCCTTCA
TTATTCTAGTCACTAATATAGTCCTTTTGTTGTAATCTAGTCATACATTCTAAGCTTGAT
TTAGACACTTGCCAAAAGAAGTTCCAATCCAGTGGTTTCGAGATTCCAAAGGCACCTTTC
TCTCATGACCCAAAGGAGTAATTTTGGCATCTTAAATGGATTAATTTGTCTTCCTGATGG
GAGCACATCANAAGAATGGTGATGTGGATGTTAGATAGAGCTGAGGGGGCCATACTCGAA
CTCCCAGAGGTATCTGCAGGGGCTGGGGCAGGGAAAGTCTTAACCCAGCTCTAAACACTT
TCCANAGGTATTTTGTTGGGGGGTAGGGGGAAGATACTGCTCTAATTAGGAAATAAGATT
TTGTCTTANATGACTTTTTTTTTATTCCTCTNGGACCAATTTTNAAACATAGCTGGAACT
CCAACTGGGC
Sequence 3435
CCCTTAGCGTGGTCGCGGCCGAGGTACGCCGGGGGGACTGGGGGTTCGTCTGCTGGGTTT
GTGGAGCAGCTAGCTACTCGGCGGGATCTCCCGGCAGGATGGGTAAAAAGATAAAGAAGG
AAGTAGAGCCTCCTCCTAAGGATGTGTTTGACCCATTAATGATTGAAAGCAAAAAAGCAG
CAACTGTGGTGTTAATGCTTAATTCTCCAGAAGAGGAAATTTTGGCTAAAGCATGTGAAG
CCATTTATAAATTTGCTTTAAAAGGTGAGGAAAATAAAACAACCCTCCTTGAACTTGGAG
CTGTGGAAC
Sequence 3436
CCCTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTAACACTAAAGGCATCATAGGTTTAA
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TACTCTCATGGGAGCTTCTTTAACATTAGTTCAGAGGTTAATATATTTCCTGGAGGTGTT
TTCCTGGAATTGATTGCACTATTGCATGGTAATAACATTTAATTGTTAAGGAAACATTAT
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AATAGAAGGACATGATATTTTTCT
Sequence 3437
CCCTTCGAGCGGCCGCCCGGGCAGGTACACTATCCTGTGGTTTCTAAATTCTGCTTCTTT
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CAGAAACAAGCACCCAAATGTAGATCACCCTGCTGAAGCTCAAATCACAGGACTCCTTGG
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CTCAAATATTTTAGAAATATTGCCCAGAAGACAGGCCTATCACTAATCAGGATTTCTGTG
TCTCAATCAATAAA
Sequence 3438
CCCTTAGCGTGGTCGCGGCCGAGGTACAGGAAAACACCAGCGAGATGCACAGGAGAGAAA
TGACTTCATTACATACATACAGTGGATGTCACATGAGGCTATGGGTTACAGACAAGGCAC
AACAATGCATTACATACAGTGGATGCCTACAGCATCAGGGCTAATTCTCTCCTCAAGAGT
TCTTAGGAATTCCAGAGGAAAGGCAGGAAAATACACAGAGGATTAAAGAGTANCATACNG
AGATTCTCTAATAACCATNCNGNTNAGNTATTANAGACACAGGGGCAACATGGCAAGACC
CTGTCTTTTACAAAAAAAA
Sequence 3439
CCCTTTGAGCGGCCGCCCGGGCAGGTACTGGATAGCATAGACATAGAGGACCACTCAAGA

TABLE 1A
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GTTATCAGGAAGTCAGAGTCCCTACGCTTTGAAGACTCCAGGTATAACATACATGTGTTA
CCTAGAAGCCTTCTCTCCTCCCACAGGAGTCCATTATCAAGGTCACCTTCACGGATGAGG
CCCTTAATGCTAGGCAGTAACAGGCTTGGGGTAGGAAAATGGGACAGAAAAACACAGAAG
TAGTGAGGTGTGGCTAGGCAGGAAGAGTGCTAGCGGATGGGGCCCCTGACACTAAGGAAG
CGGTGGGAAAGGCGTGAGGCTTTGAAGACCCTCTCCAAGGGGCCCAAGGCTTCAGAAAAA
AAAAAAAAAAAAGGCAGGGANGGGAGGTAAGGAGGCANAGAAGTAANAAAGATTANTATN
TTTCAGGTTTTTCTAGCCATTTTAGTCTTCAAGGGGATGGTNTTNGGAAATGAAAACCNG
GAATTCTGATTAGATTGGGGGTNGAATTCCTTTA
Sequence 3440
CCCTTAGCGTGTCGCGGCCGAGGTACTCCAAGGCCTAATGTAGTAAAAGCCTGTGGACTT
GGTCTAAGAGAGACAGGGGACCCCTGAGAAGAAAACTTCTGTTCCTGTTCCTGGGCACAG
AAGCAAGCTAGGGCCAATGCTGAAAAAGGTAGCTGCTGAGTAGCGCAGGGAGACAACTGA
ACACACTAGATACCTGGGAATGTGCGAAACTTGGGAGGGGCACATGGTCAGGCCAGAAGA
GGATTAGTAAGAAAACTCAAAGGGCCGACAAATAAATTAATGTTCTGCTTGTTTAG
Sequence 3441
CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT
GTTTTTCTAAAAGATTTCTCACATTGGCAAACTGAGAGATTTTCTTCTGGAACACAGGAA
AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA
ACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATTCA
GCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGAC
C
Sequence 3442
CGCCCAGTGGTGGATGGGATATCTTGCAGAAATTCGCCCTTTCGAGCGGGCCGCCCGGGC
AGGTACCTGTGGTTTGGGGAAAGATTTTAAAATGAGTGGACAGTTATTTGGGAACAAAAG
AAGCTAATAAATCAATCCCCCTGGCAAAATTTAAAAGAAACATGCAGAATGAAAAAGTTT
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ACCAAAGGGGCCCACTTGGAGTTATTTTTTAAAACCGTCCCAAAAAAGNTTTTTGTTTTT
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CCCTTTTGGAGGGGGGAAAATAAAATTTGGTTNGGTTAATGGAAGAATGGTGGAATGGTT
TTCTCCCTGCCCCCCTGGGGA
Sequence 3443
CCCTTAGCGTGGTCGCGGCCGAGGTACTCTAGAAATGTGAAGACATTCTATCAACCATGC
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GAATCATTTCTTGTTGTTAGATGCCTAAGTGCAGTTGTCAAGGCTGTAGAACTGCCAAGG
AGGAAGGGAAGGCAGTGCCAGCTGAAACAGCAGAGAGATTCAGGAGAGTGATGCAGAAAT
ACTCGTGGAGACTCTCATTTCTGACCTGGATCTCAAATAATAAATGATGATTTATTCCTT
TATCATTCAGACAGTCTTGTGTACCTACTGCAACCAGACCCCTGCTGGATCCTGAAGCT
Sequence 3444
CAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCATGAGAAACCNTCACAGNAATTCC
CACGGTTATGAGGAAGGATGTNAGGACAGAATAGGGATTTTCCT
Sequence 3445
CCCTTAGCGTGGTCGCGGCCGAGGTACCTGAGGAGAATTTCTTCAATGTTCCTGCTTTCT
TAACTGTCTCAGGACAACTTCATCTAGAAGTGATGTCAGGAGCTTTTACTCAAGTGTTTA

TABLE 1A
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CCTTTGGTCCGACCTTCCGAGCTGAAAATTCTCAGAGCCGGAGGCACCTGGCAGAGTTTT
ATATGATAGAAGCAGAGATTTCTTTTGTTGACAGCCTTCAAGATCTTATGCAGGTTATAG
AGGAACTGTTCAAGGCTACAACAATGATGGTTCTCTCAAAATGTCCTGAAGATGTTGAAC
TCTGTCACAAATTCATAGCACCTGGCCAAAAGGACAGATTAGAACATATGCTAAAAAACA
ACTTTTTAATCATTTCTTATACTTGAAGCAGTGGAGATCTTAAAGCAAGCATCCCAGAAC
TTCACCTTTACCCCANAGTGGGGTGCTGACCTACGGACTGAACATGAAAAGTACCTGC

Sequence 3446

CCCTTTAGCGGCCGCCCGGGCAGGTACTCTGTTGCCAGTTATTAAAAATAATTTTGGTGA
TGTCAGTTCCTTTTACAACAAACCATACAAATTCTGCATTGCCTGTAGGATAAGGTTCAA
ACTTCTTGGAAAGCCATACAAATCTCAACAATATAATTTTGGCACATATATCTCCTACAA
TGTGTGTGTATATACGAGTTATGAAGAGTTATGGGCCAGGCACGGTGGCTCATACCTGTA
ATCCCAGAACTTTGGGA

Sequence 3447

CCCTTTCGAGCGGCCGCCCGGGTAGGTACGCGGGGTCTCCTTTGTAGGTAACCTGTCATT
GGTCTTTGGATTTTTTTATAGTCTCCCTTTGTATCTGGTGTAATTTAGTTTCAATCNTGG
TNGTGGCCTACGNTGTAGACTTCTTGCTTGAAAAGTTGTTGGATTTCTTGAGTTTGAATT
TTGGAGTGTTTAATCAGTTCTGAAAAATTTTCAGTGTTAGATCTTTGGATATTGTTTCTC
CATTACTTGATTTTCTCCTTCTTCTTGAGAAATAATCAAACTCAAGNGAGGTCATAGGAA
CCCTCAGGTTTATAATTAGTCCCTCAGGAAAAAATTA

Sequence 3448

CCCTTAGCGTGGTCGCGGCCGAGGTACGTAGCTTTGTGCTTTGCCCATAGTAGTTATTCA
ATAAATATATTGATGGACTATTAAAGGTGAATTTTCAAATGTATCAGAGAAAGAGCAGAG
AGAACAAGGGAAGAATTTAACNAATCAGAGACTGTCAGGTATTTGACTTAAACTGGGTAT
TAGTCAATCTCCAGATTATACTGATCTACTGNCTTAAAATTAATAAAATCTTTATTCTAT
TGTGAAATTACTGCTCACAGCACATAGCTAAGAGTTTGATGGGACCTTAGTAAGTGCTTC
CTCCAAATATTTTACCTATAGCCACAATCACCCAGCAAAGCTCTCCAAAACTTTGAAGAG
AGTAGTTGCTTTAATAGTAATTAAACTACTCAACAAAGGTAGCACAGAGCTGCAATTCTG
TGCATGA

Sequence 3449

ACTTTTCCAGTGGACATTTTTCACTGGTTTAAAGGAAATGTGACATTCTCTGCTCAGATA
CTCACATGCATATATAAAAAGAAGTTGTGTAACTTACATTATTTTATGACTTCAACAACC
TTGAGCAAGTGTGAAAAGAGATTCTGTGGGTAGCCCCAAAATGGCTCTGTCCACCTTCCC
AATTTCTGGTTAAGTAATCCCTACCACGAACTTCTAACATGTAACTGTTGCTCANTAAGA
TCTGGAGGAGCTGGGGCATTGAATGGAAGCAGTAAGTTCTCTGTGAGTAAATTCTTTTTT
AGGCATCACATGTGATTTTCAAGTGGGATGAACATGCAAAATACACATGTCTTCCCCATG
CATCCTGAGAAGCCATCCTACTATGGTTCTTCCAAACACAGTCAAATTTCTCATGCTTAC
TCAATGATGTATTTGCACATTCAGCCCTTACCATTTTGGANGNCATTTCTCATCTATTTA
AACC

Sequence 3450

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TGTCTGAGGATAGGAGAACACAAAGAAAATCTTTAAAAGAACATGAGGTCAAAAATCAGA
GCTCGAAAATCTACTGCTTCATAGCTGTGTGACCACAGGCAAATTCTTTTGCCTCAGTTT
TTTCATCCTAATAATGAAGAATATCTTATTTGCTTTGGAGGGCTATAAGACATGATGAGA
TATAATAAACATAAGGCACTGAGATACATCATAGACACTTAATTGTTGTTAGCTATTATA
TTACTTATCTTAGGGTTTTCCTTCATGGTATTTTGTTGGAAATGATAAAAAAAATAAAACA
AATATGTAAGGGCTTGTAAAACCCAAGATTCAGTATACCTACTGCTTCTAGCTTTAATTC
TAGGCTCTGCCATAGTTAGGATGTTTACTCATCTGTAGTTCAAAA

Sequence 3451

CCCTTTCGAGCGGCCGCCCGGGCAGGTGTCACACTGATTTACGATCACTCTCCTAACCCG
ACATTAGATATATTCAATAGATCTGGCAGTAAGTGTAGTGCATACTAACGGGTCTTGATT
TTCAATAATTTTATGCATAAGAAAGATTTTTATTGTGTTTTATTGCGTTGGCTGAATATA

TABLE 1A
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TCAGGATACCAACTGAAAGCAGATCTTAAAGTTAATAACTCCAGCTTTTTTTGGTTTAGT
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AATTTTGCAGGCACAAAATGTTACTATAAAATTAATTTTTGTTGAAGAAACTAAAAATGG
AAAGGACTTAATTTGGATATTGCAGTTATTTTAAAAAA
Sequence 3452
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CAAGAACAAAGTCTGTTTTAGTAGCACCATCATACCAACCACTTTCTTGCATCTGCAGGC
TCTTTGCAAGAGAAGATAGCAAGCACATGGTGCAGATAGTGGGACTGCAAGAGCTTNAGG
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AACAGTGTAAGTACTAAAGTGAA
Sequence 3453
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AACATGTTTATACACATGCTAAATTTCTGAGGAGGACCAATCCATATGAAAATAAGTTCA
GTTCTAGGTGGAGCAGACTATATTTACCACGGCAGTCTTGGACAATAACTCAATGTGAGA
TGAACTTGCTGTAACAGAAACACAAACTTATTTTCAAGTAAAAATGCTTTTTCTGAAGAT
AATACATTTAAAAAAGTGTGAGGCAAAGAAAACAAAAGTCTGATGAATCTAAGTAGGACT
CACACACAGGTAATGCTTGTTCTTTTCCATAGACNGCTTTTTTCTCCAACCATAACTT
Sequence 3454
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AGCAAGACTCTGTCTTAAAAAAAGAAAAAAAATAAAGTGAATATCAGTATTGCTGAAAAT
TCCTAGAATATTGGATAAAACTTTAAATGAAAACATGAATAACTGACTTTGGGAACTGTA
ATTGTAGAAATTTTGTTTTTCCAAAAACAAGAAAGTAACCTTGGTTCCCAATACAACCAG
A
Sequence 3455
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ACTAAGAAAGAGACCAGTGCTGTTGCAGAAGCTCAAAAATTGATGGTTCAAGCAGCAGAT
CTTCTTTCTGCCATTCATAATTCATTGCATCATGGCATCCAGGCCCAGAATGATACTACA
AAAGGAGATCATCCAATTATGATGGGTTTTGAACCCCTTGTGAACCAGAGGCTACTTCCA
CCTACCTTCCCTCGATATGCAAAAATAATTAAAAGGGAAGAAATGGTGAACTATTTTGCA
AGATTAATAGATAGAATAAAAACTGTCTGTGAGGTTGTGAATTTAACAAATTTACATTGT
ATCCTGGATTTTTT
Sequence 3456
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CAGGAGCTATAAAAGAAAGGGAGGAATCATGTCCACAATTGCAGCTTTCTATGGCGGCAA
GTCCATTCTCATCACNGGGGCCACAGGCTTT
Sequence 3457
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ANCTGCTTTGCCTNGGCCTCCCAAAG
Sequence 3458
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TABLE 1A
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ACTGAAGCCTGTATAAGGAAAGAGACTATATGAGCAAGTTAAGTTGAAAAATGTTTAGTT
TTAGAGTAGGTGGGGAGAGTATTTACTTTGAGCAGATAGAGAAATTGGGGTTTCTTGCGC
TTTGGGGAATACTGGGATGAANAAAATATGTTATGGGCTGATAATAGGGATATTGCCATA
CAGATAGTATTTCCAGAGACATTTTAAAGCAAACACATTTCTTCGTGTTTTGGCTCTTTC
AAGAGAGATATTCAAGCATTTTTGTGTTTCTTTTTATTGAGTTGCCCTCTCTTGGTCAAT
GTGGGATGACTGTANTTGGAATTGAAAGTGCAGAGGGATCTCCTTCCTTAA

Sequence 3459
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ATTAATGACAACCCAATGCTATGTGCTCACTGAGTGTTTTCATTTCAGAAGAGCATCAAA
ACCACTGAGTCCTTTCAAGTCGTCTTCTTTTACTGTGAAACCAGAAACCATGCCGACGAC
TACTTTCAGTAATAACCTGTGTCCCAACTGCAGGCTGAAGTAAACTTCTTCTCATATAAT
TTCTAATTTCTGTGTAGGGGTAGTTGTAGCAAACAACTTAGTTTCTTTCAGAGCGTGACT
TCAGAAAGCGTATTTTCATGCANCAGTGATGGGTAATGAAATCAGAATTTCCACAAAGTC
TGCCCTAATTGAACAGCATTATCAGGAAA

Sequence 3460
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AAATAATTCTACAGGAATCATTTTATGAAAAAAATATACAATCCATATTGGTTTAATTAT
GAAATTTTGACTCAACGAAACTTAAGAAACGAGCCAACATTTTACTCATGGTCTCTAGAG
GCATCTCCTTATTACTCACCTTGATCT

Sequence 3461
ATTCGCCCTTTCGAGCGGCCGNCCGGGCAGGTACCTAGCATAGTATCTGACCCACGACAG
TCATTTNTGNGAATATCTATTAAGNGAATNAATNAATTATTTNTCATNCTTTCCCCNATG
AAANCATTGCTTTTATAANATTATTATTTCATATTTANTATCTTACTAATANNTATAACT
AAACCTCCCTAATCCCAAACCCTCTATCTACTTNCACACCACTNCTAAAATTATAATTCC
TAAATNCTTTTNTT

Sequence 3462
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG
CTGTTTTTCTAAAAGATTTCTCACATTGGCAAACTGAGAGATNTTCTTCTGGAACACAGG
AAAGATTATATTAATGCTTATAGCCATACCATGCCTGAATATGGGAGGATGACAGACACA
GAACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATT
CAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGG
ACCGCTGTTTTGGATTTTCATT

Sequence 3463
ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTTGTTTGAATGGTATTTTGAAAG
CAATTGCATAGTTACTATTGATTCCTCAAAATGCATAATGGGGATGCTTCTGACCAACTT
GCCTTTTAACAAGTTANAAAGTAAGTATNCACNACAAGNCTCTTACTTCACCAAAACTAA
TAAATTANATTNCAATANTANGAAACACATATAAATAATGAACGAANCTANAATTATNAC
CGCTTTCTAAAAAAATATTAAAATTNAAANAAAATATNNAAAAAAAATTNNANNNGAATA
AANACTAATACAATANAAAATATTAATTTTATAAAAAATATGAATAAAATCTAATATTCC
ATAAAATNAATCTTAAAACTACTAATACTACATTTTTTCAACTTACATTTTTTAAATATT
TTAATTAGTAAAATCACTCTTATAAAAACTTTTAAAAATTTTCACCTCTCAATCACATAT
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TATGNACCCTACTTTTTTAAAAACCATAAACCTAACATTTTAAAAATTAATCCAATTAAA
TTNCNTANTNATTTTTTTTNTTTAAAACCATTTTTCCNAATAGATANATTACCTTTNAAA
ATTTTAAAAAATNNCGCTTAANCCATAANAACCTTACNCCCTNTAAATCCTTACCCTTTA
AAAAACCCCAAATTA

Sequence 3464
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TAGAATGAAAGCTATTGTGCATCAGACAGATAATGTAATAGATCAGTTAAAAAAAGAAAA

TABLE 1A
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CGATCATTATCAACTTCAAGTGCAGGAGCTTACAGATCTTCTGAAATCAAAAAATGAAGA
AGATGATCCAATTATGGTAGCTGTCAATGCAAAAGTAGAAGAATGGAAGCTAATTTTGTC
TTCTAAAGATGATGAAATTATTGAGTATCAGCAAATGTTACATAACCTAAGGGAGAAACT
TAAGAATGCTCAGCTTGATGCTGATAAAAGTAATGTTATGGCTCTACAGCAGGGTATACA
GGAACCGAGACAGTCAAATTAAGATGCTCACCGAACAAGTA
Sequence 3465
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGAGTAACTCTTAGAATTTCATAGCATAGC
TTGGAATTAAGACCTCAGTGCAGATCAACTGGATTTTTATTTACATTAATATCCTGTGGC
ATCAGTAATATCTAGCTGATTCATTTTAGTAGCTTTCTATTTCTTCTTAANTCTCCTTAG
TTGTGCTTTNAGCAGTTTTCTCCAAATTTTAAAGTTTCTTGCATAATAAAGTAAAAATTC
CAAAATAATTAGGGATAAGTGTCCTAATAATAATTAGGGTAAGTATCCTAATAAAACATT
ATCCCTTCCAATTACACTATCTTTTTGTGTAAGGGAATAACTGNGTTGATTTTGGATAAT
CAAACAGACATAAACTACATTGGGNTAAAAATACTTTTGAANAGCTGGGTGGTGGGGGGC
CCACTTCAAGCCTNGTGATTTCCAGCACTTTTGGGGAG
Sequence 3466
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCTGGGGACAGTGGGAGAGCTCAGCCTCACT
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CCAGGGGCACTTCTGGAAGTCCCCTTTCTAGGGACATTTTTCTTCTAAGCTCTGTAACGC
GGGCCGAGGCAGACCGAGGCTTCTTTCCCGGATCCAATCCCCTGCCCCCATGCCTAAGAA
AGAAAAAATGACCAAGACGCCCCTGCCCGATGAGAAGCAGCTGCTTCTGTTTCAGCAGAA
GTTGCTGGCAGAGGGGGAGATGGCCAAAAAGAAGGAGA
Sequence 3467
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AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA
ACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAACAATTCA
GCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGG
Sequence 3468
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGGGAAGCAGCAGCTCTAGCCCTGGCAAACCT
AACCACTTGCAACCCTGCTAATGCAAACGCTGCTGCTGAAGCTGATGGTATTGATCCATT
AATAAACCTCCTGTCTAGTAAACGAGATGGAGCCATTGCCAACGCTGCTACAGTATTAAC
AAACATGGCCATGCAGGAGCCCCTGCGCCTGAACATACAGAATCACGACATCATGCATGC
CATCATCAGCCCACTGCGTTCTGCAAACACAGTCGTGCAGAGCAAAGCTGCTCTCGCTGT
CACCGCAACTGCATGTGACGTTGAAGCCCGGACTGAGTTAAGAAATTCTGGTGGATTGGA
GCCCCTGGTAGAGCTGCTACGCTCCAAGAATGATGAAGTGAGGAAGCACGCCAGTTGGGC
AGTGATGGTCTGTGCTGGTGACGAGCTGACGGCCAATGAATTATGCAGGCTCGGGGCTTT
AGATATCCTTGAAGAAGTTAACGTATCAGGAACTCGGAA
Sequence 3469
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TGGGATTTTCCCCTAGGCTGAAAAGCCAGGTTTGATTCTAATAAACGTATACATTGCAGT
GTAATTAGGCAAGGGAACAGGGTTCTTGGAGCCACAAAGCCCCATGGTCAGTATTTGGGT
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CAGAACCTGTTTTTAATCAGTTTTTCTCTCTAATTTTCGGATACTGACAATCTTGNTTTC
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AAGNGAAACTTTTTTTTTCCCGG
Sequence 3470
CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTTCATGTTATGCTGACAGACCTATCCTTCA
TTATTCTAGTCACTAATATAGTCCTTTTGTTGTAATCTAGTCATACATTCTAAGCTTGAT
TTAGACACTTGCCAAAAGAAGTTCCAATCCAGTGGTTTCGAGATTCCAAAGGCACCTTTC

TABLE 1A

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TCTCATGACCCAAAGGAGTAATTTTGGCATCTTAAATGGATTAATTTGTCTTCCTGATGG
GAGCACATCAGAAGAATGGTGATGTGGATGTTAGATAGAGCTGNAGGGGGCCATACTCGA
ACTCCCAAAGGTATCTGCAGGGGCTGGGGCAGGGGAAAGTCTTAACCCACTCTAAACACT
TTCCAGAGGTATTTTGTGGGGGGTAGGGG

Sequence 3471

CCCTTTAGCGGCCGCCCGGGCAGGTACTTTGTTTTGTTTTCTGCCTATAATGTAAAAAAT
GCTTTCTAAAGACAAACTTAAATCTGCTGAATTGATGCTGCAAGAGCAGTGAGCCTTGGG
TGGAGGAGGATGCAGGTATAGGAGGTAGAAAGGGCAACGGCCCTGTGATCAGTGAAAGGA
TGCCCTGTGAATTCAATCCTTGAAAATGACCTTTGATTCCCCCCCAAAAGCACTCAAGGA
TGTCCTGAGGTTGTTACTAGTTGCTCATACCACCTGGGGGCACATAGCCGGAGCCTCAGA
GCT

Sequence 3472

CCCTTTCGAGCGGCCGTCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG
CTGTTTTTCTAAAAGATTTCTCACATTGGCAAACTGAGAGATTTTCTTCTGGAACACAGG
AAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACA
GAACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATT
CAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGG
ACCGCTGTTTTGGATTTCATTGAAGATTACTTGAAAAGAGTATGTAAACTTTACTCAGAA
CAGAGAGCCATCCGAGTTAAAAAGAGTGGTGGATAAGAAAAGATTAT

Sequence 3473

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGGTCAGATGGGATGTATAATTCAGC
TTGCTGTGGGAGATGATGGAAACTTTTTCACTCTGAGGCAGTAGGGAAGATCACTGTGGC
TGCAGGACCTTGTAGGAGAGGGAAAGAAGATAGTGTGGGTAATGCCAAAAGAAAAACCAN
ACCTTTCAAGAGATTTTTTTTCCACTGAATTGCTTTTTATTATTTTATCATAAGATTTGG
GTTTTTTCCTTTTTTTTCCACCCAAGCTAGAAGTGGATGCGTGCAAGAGGTGTGAAGANA
AGAGTCAAGCANAATTCTGTAAAGTGGGCTGTTGACTTGGTTTTATCCTTTTTGGGGCAN
AGGTTTGAACTCATCAGCCACAGTCAGGATTTTAACTTGTTTAGGCATCNGAATNACANN
TNTTATCAGGAGGTTCCTCCCCCCTTC

Sequence 3474

CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT
GTTTTTCTAAAAGATTTCTCACATTGGCAAACTGAGAGATTTTCTTCTGGAACACAGGAA
AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA
ACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATTCA
GTAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGAC
CGCTGTTTTGGATTTCATTGAAGATTACTTGAAAAGAGTATGTAAACTTTACTCAGAACA
GAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAAGATTATCTTAAGCTGGAACCA
GAACCAA

Sequence 3475

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TGTTGCACGAATCACCTATACAATGAATTTCATCCGCGTACCTACTATTGAGCACTGAGG
ATAACAGCAGTTAAAAAAAAAATCCAAAAACATCTTCCTCCATGGAGATGTCATTGTAAT
GCATGANCAAAGTAGAGAAAATAAGTAAAATATTTGGTATATCAGATGATAAAATGCACC
ATGGAGAAAATCAGAACATGGAGGAATTGAAAAGGCCAGGGATGGA

Sequence 3476

CCCTTTCGCGCGGCCGCCCGGGCAGGTACAGATTATCTGGCAGGCTTTAAAAAATTTAAG
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AGATTTAAAAATAACTATAAACATTATATCTCAACATATTAAATGCATATCCTCCTTGTC
CCAACAATTCTACCTCTAGCAATATCTCCCACAGAAATAAGTCAAAGGATGCAACTCAAT
ATGAACAAAGTTGTTCACTGCACCATTATTTAAGAGTGAAAGGCCAGAAATAATTTAACT

TABLE 1A
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CTCCATCAGGAGAAAGGTTAAATAAATAA
Sequence 3477
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ATAGACCAGGATGCCCAGATATTCATTGAGGACCTGTTCAGAAGCAATTCAGCAACTACG
AACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGACCGCTGTTTT
GGATTTCATT
Sequence 3478
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GCAGAGGCTGAGGAGCACTGGGGTGGTCCTAAGCTAAGTGTGGGTCTGTTTGAGAAATTG
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AAACTTAGACACCCGAGGGCCAAGGGCAGAATCAAGTGGAGGAGAGTAAGGAGGGTCTCC
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CACCCATTCTAAGGCAGTGAGGATGGAAGAAAACAGCTTTCNTTTGGTTCTTTTGAGGCT
TGGANNTGTATTATTAAGACACAANGGAATNAANGGCNATGAAACCAAAACTTAAAAAAA
TGNCTTGCAATTCTAAACCTNNAGNGNANGGNGNAAACNACNTAAACCTGGGT
Sequence 3479
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTGCATAATATTCTGTCAATTTAAAAAGAAA
TGCAAACCACAAGTTTTGCAGGTCCTGGGAGGGCATTGCCCTCAGGATGCTCACTCCTGT
CCCAGTCCAAACTAACTCCAATTCAAGGAAGGAAAAAATTCATACTGGTTTCATAGAAGT
CGGGAATCGATAGTTCTTGACAATCACTTCTTCCCTATAAACCTTAAGCCCAGGAGGTCC
TCAAGAGAAGACTCAGTGCTCACAGAAGGAGGGGCAATTTGAGGGCAGACATATTGTCTT
TCCATGCACAACCTCTGANGTATCCTAGCAACTCCTGAGAGCAAACCCTTTATGATCTGA
GTTCAGGGCCATCCAGTTCTGTCTCCTTAACGCTGTCAGTCAGAGCTACCCAGGAAACAT
CATTACTCAGAATTTCACCTTGCA
Sequence 3480
CCCTTAGCGGCCGCCCGGGCAGGTACTGAGATCCAATGAGACATAAAACAGCTAACATCT
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ACACATACACCTTCATGCCTGAATATTAAGAGACAAAACTCACACTAGAGAAATTTATTT
TATGGTCCATTTGCTGCTTCACTTCTATTTTACAGAACAAAGGCTCTTTAGGAAGATGCT
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TATGAATGACTATGTAACTTGCCAGATAGGCACATTTATGCAGGTATCTTGTCACAGGAC
TGTAAGNTTACCTTAAATCCCACACATTCAGGCGG
Sequence 3481
TCTGCAGAATTCGCCCTTGGCCGCCCGGGCAGGTACATCATAAAGGAAACTTAGACAAAT
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GCTGGGATTGTGAATTTTCTCTCCTTTAGAAACAAGAATGTTCTCATGTCAAAGGTAACC
CATTGTAAAAAAAAAAAAAT
Sequence 3482
CCCTTAGCGTGGCGCGGCCGAGGTACCCCATTGCTGTAGAAGTTGAGTTCGAAGACTGAT
GGGACAGTTGTGCTGGGGGTGATAAAAAACTCATCATTCCTGCTAGTGTGGGTGATTGTG
ACACAATTTCCCAGCAGCTGTATGGCATGCATTACTACATCTTNTGAATTTCCTGAGAAC
CCCAGGTCAAAATTACNAGCCAGGACTTCTCTTTCATCACAAAGAAGTCTTCGACCAATG
TGGA
Sequence 3483
CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAAACTCCATGTGCAAGGCAGGGATTGT
CACCAAGACCCAACTCCATCTACAGACACCCACGTAAGATACAAAGACAGGTTGGGTGTC
TAAAGGATAGAAAAAGATCCACAGTGGTCCAGGAGTGGTCCCAGCATTGTGGTAGGCACA
AGAGTGAGGATCACTTGAGTCTTAGA

TABLE 1A

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Sequence 3484
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGACACAAGCAGGGGCTTCAAACGTGCTTA
TGCTGTTGAGTGTGGCCTTTCGTGCCACTGCCATTGCCTTGCTGGCGGTCCCAGGAGAAG
GGTAAGAGACACATGGAACTGACTGAAGATCAGCAGACCTGCCTAGCCTGCATCAACCAA
CCACCAAAATGTATGCTTATTGTTGAACATTATTGAGATTTTGTGGTTGTATACAGTAAG
CGCATAGCTTCCATGAAAACAGTAACCGGGAGCTACAAGAACAGAGTGAGGAGAGATGCT
AACAGAGCTAACTAAAACATGAATAAAATGTAAGGAAACCAAAATGAAGTAGAGAAATTT
AAGTCTTTAAAGCTTCAGAGAGAAGATCTGAATCACTGATGTGGAGGGAAAAACTTTTCT
TGATGAAGAGGA
Sequence 3485
CCCTTAGCGTGGTCGCGGCCGAGGTACTGACAGGTTTTCTACTGAATGCAAAGTATTCTT
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NGGGCTCTTTTGCGGGGTTTCAACAATTCATTACTTACCCCAGTCATGTGCTGGGAAATT
TTATTATTGCTTACTAAGGCAATTTTACCAGGGATTTAAATCCAGACTCTTGCTTTCTTG
AGTCAACTTTTGTTCTCACTGAATGATTCTACAATGTTATCTTGTGAAAGCCCCTCTCAC
AACGATCTGGAAAGTCATATCCTTTCTAAAATATGTAACACCTTATGGATTCATAATAGG
Sequence 3486
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CCTTCCTGCCTGACTCCGGAAGACTCCTGTCTCAGTCTCTCTCAACATGTCTGAAGGACT
TAGGGGCAAGTGTCAGTGGTGAAGGCCCTAGTCTGAGTTTAATGTCTGGGGCCAGCTTGA
AACAGCAGCTAGTATTTTGAGCTCTAAGCTAACACTCTGGACTTTCAGTCATGTTTTCTT
TCCCCAGTGAAATAGAAAAGTTTGATTTCAAAGAGGAAAAGTGTGCAATACCTGCAACAT
ACATAAAACCTATTTAATTTTA
Sequence 3487
GGTGGAGAAGGCACTGGTATTGACCAGGAAAGTTGTATGTAATAGAAATTGTAGAGCACA
GTAGGAGAAGAAAAGTGAAATGAAGTAGACATGGGAGGCAGAAAGACAAAGAGAGAGGAG
AGAACAACCTATGTTGTAATTGAAGCTTAAGAAAATACCATCCTTGGACACTTTCTTGTT
TCTGATTTTATCTAAGTATCTTCTGGTTGATTCTTAAACTGCATGTATTTATGGCACATG
TATTTGCCAGTTTAATGGACACTTTTCCATCTAGGACTGTTTATATTCTGGCACCCATAC
GTACCTGCCCGGGCGGCCGCTC
Sequence 3488
CCCTTAGCGTGGTCGCGGCCGAGCAGAGAGAGAGAGATCACAGCCTGGGAAACACTGTGT
GTGTAGAGGTGGAAAAACACATGGGAGTGTTCTCATGGCTTGTGCATAAAACTCCCACGA
GGTAGGATATANTTGGGGAAGGAAGATTTGGTATNTNGGGAGTCAAGATTGGCCCAGTCA
CNCAGATTGCCTTTTGGTGGGTCAAAGCTGANGGGACTTTTGGGTTTTGGTGCTAGAACT
TTTGA
Sequence 3489
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG
CTGTTTTTTCTAAAAGATTTCTCACATTGGCAAACTGAGAGATTTTCTTCTGGAACACAGG
AAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACA
GAACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATT
CAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGG
ACCCGCTGTTTTGGATTTCATTGAAGATTAC
Sequence 3490
CTNTNATNGGNTATCTGCAGCAATTCGCCCTTANCGGCCNNCCGGGCAGGTACCCCGGGT
GAATTTGAAAGGTATGCTCCAAATGCTCACCCATCCAGTANGGTTTATAATTCTAGATTT
TAATTTTTATTCTATAATATTAATCTGGGAAGTCAATATTTAAGTATTGAAATAGAACCT
TTAGTTTATCATAGTTCTTTCCAGTCTCAAAAGCTTCCCCCGCCACTATTAAATAATTCA
AAAGGAGGCCCGGCCGTGGTGGCTCATGCCTGTAAGTCCCAGCACTTTTGGGANGGCCGA
ANCGGTGGATCACAAGGTCANGGAGATCAAAGACCATCCTCACTAACACAGGTGAAACCG
CTCTAAGTAAAAATCCAAAAAT

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Sequence 3491
CCCTTCGAGCGGCCGCCCGGGCAGGTACCCCTGTTTAACAAGGGGTAGGGGCCTTCTGAG
ACTGTTTCCTCTACAGAGTAAGGGTTCGTTCAGCCTTTTCCGTGGCCTGCCAAGAACTCA
ACTCCATGTTCCCTCACTTCCTGTAATTGACCTTGTCCAGGACTTTCTGACCTTGGAGAA
TTCACCTTTGCTCTTTCTGCTGCTTCGTGCATTCTTCCACCAAATGTCTAACTGACTGGC
TCCTCTCCAAACTCAAGGCTTTGCCAAATGCCACCAGCTCAGGGAGGCCTTTCCTGGCCA
TGACACTTGAAGTTGCAACACTCCCCCGCAGTCTCCCGTGCCCCAGATGTAAGTTCCATG
AGGGCAAGCCCTGTGCTTTTACCACCATATCCCCAGCATCTTGAGCTGTGCCTGGCCCAA
GAAATATTTTGTTGAATGAATGAATT
Sequence 3492
CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT
GTTTTTCTAAAAGATTTCTCACATTGGCAAACTGAGAGATTTTCTTCTGGAACACAGGAA
AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA
ACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATTCA
GCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGAC
C
Sequence 3493
CCCTTAGCGTGGTCGCGGCCGAGGTACTGAGGACTTGTAGCTAGTAAGGAGGAAAATGGA
AAGATGAAGATTGCTTTGAACAATGAAAAGAGACAGGGTCTGATTTATAATCAGCTCTCA
TTGCTATGTTAATAATAGGTGGAATAGGGACAAGGGGAGAATTAGAGACACCATTTTTGT
CTGATTGTGTGATTGATGTGATTGTGTGATTGATGTGATTGAGATACTCCAACTGACAGA
TGATGGTGGACTGGAGGGGTGGTAAAAATGGAAGTGGTGAGAATGAGCACATTTGAGATA
TATTTTGAAAGTAGAGGCAACAGA
Sequence 3494
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAGATTAATAGGATAGATGAACCTTGACT
ATTCTGCTCCTTTAGTTTGATTAGTCTTCTACCAGCAGAAACACTGGAGCACTCCTCCTA
TATGTAAAATAGAGCATTTGGAGAGAATAACTTTTGGAAATTGCTGTTAGTAATCTCAAA
ACAGAGCAGTCCAAACTTAGTGTTCTGGATTAATTTTCCAAAACTGAGTTGAGAACGGGA
TATGCATTCATTCTTTTAGCAATTTTTTTTTTCCCGAGACAGTCTTGCTCTGTTGCCCAG
GCTGGAGTGCAGTGGCATGATCGGCTCACTGCAACCTCCTCCTCCTGGATTCAAGCGATT
CTTGTGCCTCAGCCTNTTGAGTAGAGACTACAGGTGTGTGCCCACCATGCCCAGCTAATT
TTTCCTGGGTATTTTNATTANAGACAGGGTTTTNGNCATTGTTGACCAGGCCGGTCTTCG
AGCCTCCTGGTCTCAAGTGATCACNNTGCCCGGGGCGGGGCCGTTTCGAAAAGG
Sequence 3495
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGCCTGACCTTGGCCTACAAGAGGCCCAGA
TATGAGTCTTCCTAGACTGGCATCCAATTCAAAGCAAGTCAGGGCACTTTTCAGAAGTAG
AAATCAGCACTGGGCTGCTCCAAAGCAACAGACACCCACAGCAAGTTAAAGGTCATGAGT
CAAAGACCATNACTCGTGCACCTGTAATAACCCGAAGTTAGAATTAGGAGGCACTGCAGA
GGAACCATGGGGTTGTTGCATAAAGGAGGGAAGTTGAGATGGGCTTATAGGACTTGGGGT
TTTGCTTTGGGTGATTCNTAAAAGAGGGATTTGAGGGAAAGAAGAGGGGTCANTNCTGGG
AATTGGGATATTGGNCCTGGGGAAAGTGGGGGTGCCAATTTAAATGACCTAAGGTTAACC
CTTTAAATNATTTTTTTATCTTAAGGGAGGGCAAAAAGAAGAATTTGAAAAGNTCCACCT
TGGNTTTTAAGAAAGNCAGGTTNGTCCACCTTCNATTGTTTAAGGCCANGGGAA
Sequence 3496
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAGGTTAGCTATCTTTATAGAACTAAGAAC
TGTGAATTTCAGTGACTCAGCAATCAATAAAAAGTCAATAACACACACATCTTGTAGATG
ATGGTCATTTTAAATTTTCTCAATGAATAGTAAAGAGAGATTAACTTAGTTATATTTAAA
GCAAATAGAATCAATTAAGTATAAAGAATGAATATTATAAATTGATATATAGAACGACTA
TTAGAAAATAAAAATGTTGGGCTGGGTGAGGTGGCTCTTGCTTATAATCCCAGCACTTTG
GGAGGCTGAGGTGGGCAGTTCACTTGC
Sequence 3497

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CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAATGCCAGAAGTATTTTTTTTCTTTCAGCT
GTGAACCAGCCTGTTTTGTTTGACAAGCCTTTCCAGATTCATGCAGCTCAATCACGTGCT
TGTTGCCAGTTTGAGAGTGAACCTATTATTTCAAACTTGTTGCCGTGACCAATTTTTACA
AAACTGAAAGTAGCACTGTGAGGTGGATTGGACCTAGTGATGAGGTGTCTACACTTGCAT
CCTTTTCTTCCAAGAGAATATTCTGACACTCCAACTCTAGAAGTCATGTCATTAGTAAAA
TGAAAATAATAATTGCTTAATCACTGTTTAGAATTAGTTCATACTTCTTCAGAGCTTGAA
GCCTTCACGACTCAACATCAGATCCATGGATAGTATTACTATACCTTTACCCAAAGACTG
GGATTTATTTTGTAAAAATATCAANAATGGGTCTNGGTCCCTTTAAAGCAACTGACAAGG
TATTTAACAACATTTTAAAACAATG

Sequence 3498
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCAGTTGAATTTGAGGCACTTGAGGTG
TCCAAGAGACAACTGAATGATCTAGAACTCAAAATAGAGATCTAGGCCAGAGATAGAAAG
AGAGCATACGGGGATAACTGAATCCATGGGGTTGGATGAAGGTAGCCATGAAGACTGCAT
AGGAAGGGCAGAGCCCTAAACAATCATATTTAGGCAATAGAGTATGAGCTGCTCACAGAG
GAGATTAAGANGGAACAGCTAGAGAGATGAAAGGAAAACAAGGAGAATGTGCTGTATCGG
CACCCNGGGGAAATGAGT

Sequence 3499
CCCTTAGCGTGGTCGCGGCCCGAGGTACATGTAGTCTATAAATTAAACAGCAATTGATTC
TGAAAAAAACATGATTGTGGCTTAGTCCAAATATTAATATATGTATTGAGAACCTGCTAT
TGTGGACAGTGGAATTATGGCAATAAATAAGATAGACAATGTCCCTACCCTCAAGAAATA
TAGTCTATGGCATAGAGAGAGACTATCAATAATAACCTTCACAAATAAAGATAGTGATAT
GTGTAATAAAGACAGTATATTAAAGAGATGTGCTAGAAAGTGATGATAGAAGAGGAAGCT
ACTTTAGATATTCTGAATAACAAGAAGTCAAGTGAACATTTGGGGATCAGAGCAATCTAC
ACAGAGAGCCTAAAGTAACTTTAATGCTATACACTGCAGATTTTTAAATCCTGACCTCAC
CCTAAAAACATAACAAGTAAAT

Sequence 3500
CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT
GTTTTTCTAAAAGATTTCTCACATTGGCAAACTGAGAGATTTTCTTCTGGAACACAGGAA
AGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGA
ACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATTCA
GCAACTACGAACAGAAGCCCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGAC
CCGCTGTTTTGGGATTTCATTGAAG

Sequence 3501
CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGTATTTTCTTTAGATGTGATAATGATGT
TTGGCAGTGGAATAGTATAATGTCTGGGATTTGCCTTAAAATAGTTCAGAGGAGAGAGCT
TGGTGATAGCTGCATATACATATGGGAACATAATATTCTTTCTCTGTTTTTATGTGTTTG
ATAATTCTAATAAAAATGTTAAGAAAAGATAAAAATGACAAAGCCAAAGATAGTAACTTA
TTTAGAATTGAGGTTGTGTGATGGAGTTTTTACTTTAATGGGAAGAACTTAAATAAACTG
AAGGTCTGTCCTAAATTCTTTGGGTGAAGCTTTAAGTCTATA

Sequence 3502
CCCTTAGCGTGGTCGCGGCCGAGGTACAGGACAGCTAGCACCGTAAAGACAGTTTTTAAA
AAATGTATAACTACAGTAAATCTACCATCAAAGAAAGTCAAATACAACGTTTTCGAAGAC
AACTCAGCTATTTATTGTAAAGTCCTAGATATTTACACAAAAATGTAAAATGTTGTATTA
CTGTTTATATACATCCAAACTTTTTTTTAATGATTAAAAAGTCTCTCGTAAACATTTTAT
AAACATGTTTAAAAAGTGGTATATTTTCTATGCAGCTTAATTTCAGATTTAATTCTAATT
TTTCAAAACTATATGCATACTGAATAAT

Sequence 3503
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCAGCCATAATTCCTACAGAAGGTCACTTAA
CAAAATGTGCAGTGTGTGTGTTTTCTTAGAGGTTTTGGCTACCATGTCTTTTACTAGAAA
TCTATTATGTCATGGTTTTTCAAGTTGTATGCAGCTGATAAAGGATCTTACATGTCTAAT
AGTTAAAGATAAAATACTGAGTCACTAAGTCAACTATATATACTGCTGTTTTCTCAGAGA

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CTGTCAGATTTGGTGAGTTTATGAGCTCACTTCATAAATAGCATTTCCATTTATGGTAAG
CCTGATGCATATTCAGTGACCTATTGGATTCTAATTCTTTGGTTGAATTGCTCCGTAACT
GGAATTGCAGTAGAGTTGAACTTCAAGCACCTTATAATGGGGGACTATGTGAGCTGCCCC
AGATTTTAAAGATCAAGATGAGGGAGTTTTGACATCAGCATAAAAGGAAGGGTGTCCTCT
TATATTTCCTAACCGACCNAACCAGGAATTAGAAGAAAAAATCTTTTGTCCATAGCTTAA
AAAAAAAAAAAC

Sequence 3504
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCCATGTGTTTGTTTTTTTCTTTTTCAA
ATTTTTATCCTTTCTTCACTCTGCATATACATCCCAAGATGCCTGTCCCCTCAGTGCTAT
GTTTATGTCATCAGTGTTTGACAGAAGAGAGTGTCTTGGGTAAGGGTGTCCAATCGTCAT
TCTTATCANGCTAACTGTCCTGAANAACTGTTGTTCTATTGTTTGGGTNTTCTTGCTATG
AATTTATACTCATCATTTTATTTGCATTTGACTTTGTTGGTAGATAACATACGAGAATGA
ACTCTTGATCTGCTTGACAGTTNTATATTTTGCTATAAATTAACAAAATGCCATTTTTA

Sequence 3505
CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTACCAAAATCAAAAGTAAAAGTTGAGATTT
TGTTGTGCTAACATTTGTCGTTAGAATGTATCCACCAAGTGTGTAGAATCAGAGTATGTG
TTTTTATTTTAGTTAAGTAATGTGGGTTCATCCACATCTTCANAGTATTTCTTTAATCTT
TTTGNGTTTAATTTAATTTTTTGAGTATTTAAAGTATTTACATGTTCAAAACTCAAAATT
AAGTGAAAAGTAGTAGTNTTGCTTNAATTTTACTNCATCACTCTTTACCTATCCACCAAA
TATATAATAAATATTTTCATTAGCATCTTGTTTTCTCACTTTTTTAGCATTTACATTATA
TCCTATAATTCACTCCATATCAGCTAAAAAATAATATCTTTCATTCCTTTT

Sequence 3506
CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTTTGATATTGTAGCTCTGCAGGCTGTTGGG
GTAGCTACACATGGTGATGTTCTCATTTTCTAGTAAATCAGAAAGAATAAGATTTAGTAT
AGAGAAAAATAATAGTTAACAACATTTTATAATTGTTTTATCTAGAATTTTTGACATATT
TGTCATTCTTAAAGGCATTATAAGAAATTCCTGTTGTATTTGTCTAGCAACATAATGAAA
GAATGATGCACATTTCTGTTTATTATTTTATAAATATGGCCTAAATGCAGTATCTTTGTT
ATTTAGTTTATCTGTATTAGTGTAGATTTTATTATTAATATTGNGGNTACCATGGTTACA
ATCTGGATCTCAGGCACAGTATGGTTTGCAGNTAAAATACCTCACTTGGTTTCACTTAGT
CTAGGAAGCACTTTTAAAA

Sequence 3507
CCCTTAGCGTGGTCGCGGCCGAGGTACCATCTTCTGATTCAGTCACAGAGAGGTAGGCCA
TGAGGGAAATAAGGAAAAAAGTAGAAACAAGAAATAAAGAAAAATCAGAAACAATTTAAG
ACCCTNTTGNGGNGCAAAAGGGAAGGTGGGAAAGAAGAGACAAGGAAAATACATAAAGGG
GTTAAAAGAGAGGAAAATAATTAGATAGTATTGCTGTTGTGTTTTGGAAAAACTCTTAAT
TAGAAGGAAAGGAACTAACTTTATTAAGCTACCTCTATGTAGGAAAACTAAATTACCAGG
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TTTTCCTCAT

Sequence 3508
CCCTTAGCGTGGTCGCGGCCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGC
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AAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAG
AACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATTC
ANCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGA
CCGCTGTTTTGGATTTCATTGAAGATTACTTGAAAAGAGTATGTAAACTTTACTCANAAC
AGAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCT

Sequence 3509
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGACTAGTATCCATTTGGCCCATAGTGA
CTACAGCAGTATTGACAGATACTTCTAAGGATTTTGATCATCAGTAGTCTTCTTACTATT
TTGGTAGCAGGATTTTATCCAAATGTTGACCTGGAAGTTCTTAATTGTGTTTTCAAATAT
TTGATTATTTTAAGGTAGTGGTGTTTGTTTAAATATATGTTATCAAGTATTTTTGTTGGT

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GGTTTCAGCAAGAGTGTTGACCTGAATAACCTAGCCTGCTATTGCCAGAAACCAGAACCT
CTGAGGGAGTTTATAATTGAGTCTTAATAAAAGCATTTTAAAGATGAAAGACAATAATAG
CGGTAAGTTATTCTGATTTAGAAGTAGATGAAAGAGGTCAAGGCTTAATTGGCAAGGAAC
TGCATAATGGAATAGTAGCTACAT

Sequence 3510
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAATAAACAGAATTTTATGGAGGCTACACA
GTTCTATTTGTTCAAATCAAGTATTATCCTTTTTAAAAAAATGCCACTAAAGCTAGTTTC
CTCTATNTNGAACCNTTCTGCTTGTGCAGTAACAATACAANGGCCCACAAAAGAGGGCTT
GAGTTCCTTCCCACATGCACTGCTTTTTCTCCAGTAATAGACTGCATTTTGGATGACTGC
CAGGCAACAATAGTTGACTCGTGCTGGCCAGCTCTCAACATAGGTCTCTGAAGAAGCTGG
GGAACAGGGCAAATTGACGCTTCTAGTTTTCTCTCAATAATCCCTCCCCAGGGTTCAGGT
TCACAT

Sequence 3511
CCCTTTCNAGCGGCCGCCCGGGCAGGNACAATCTTGGATTTCCAATGACAATAGTAACCA
AGGCTGAGAGGAAATCCTTCAGGAGACAAAATCTTTACACTTGGCCTGAGACATTCCATT
CAAGTGTGGTAAAGAGGTGGTGACAACAGCTAGTGGTTGTGACAAGACATC

Sequence 3512
CCCTTAGCGTGGTCGCGGCCGAGGTACCATTCATTTAAAGGCATAAATGTCCAATGGGGC
CATCTTGTGATACATGCACTGTCACAGGAAAAGTTTCCAGGAAAAGTCAAGCCAGGGCTT
CACAGAAGATCAAAAGAAAGAGACAAGGAGAAGCTAAGTGTATTAGTCAGGATTCTCTAA
GGGACAGAACTAATAGAATATATATACACACACAAACACACACACACACACATATATATA
CATATAAATAAAAGGGAGTT

Sequence 3513
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTA
CGCGGGGGTTTGTTTCAATGTTGCTTGCTCGGAATGGCCCTCCTGAGCAAACAACAGACG
GTGCTCAAAGTAACAACTGGCTTAATAAAAGGAGCTTACACGAAGGAGGAGCTGAAGGCT
ACTGTGGTCGTGTGCTGGGGGCTGCCCCAGCTCCAGCTGCAGGACCCCGGCCGTCTGCCT
TCCGACTCCGGTGATGATTCTTCCTGCGGTCTGATCAAGATTCTATGCAGTTAACTTTGT
ATCCAAGGATCTATAGCCAAGAAATTTGGAGCTCAGTTTCAAACGTAAGTATTCTGGGTC
CAAATTTTCTGCCTTTTCCCTTAAAACAACTGAATTTTATTTTATTGGGAAACAGAAATA
CAGAATTCAAGAGTTATTAGATATTATAAAATCTAACACTCTAAGTTAACATACAAGGAG
ACATAGCCGTTTCAATGACAAATGTCATACATAAAACTGCTTCATATCAGAAGCANAAAG
AGAGCTTGCTTTTCCTGTAGTTTCTGTAACACAGAAGCTGTNCAGCTCATTCTATGTATG
AAATTGATATATAAATCAAGACAGAATTTCCCATCCCATAAATTTTATGCCACTTTGATT
GGGNCTTTGTTANTTGGTAAGCANNCAGTTTATGTGAGAAGAATATTTTGGAGCCAATTT
CAAATCTGCCATTAATTAATTTANTGAATTTTAAG

Sequence 3514
CCCTTAGCGTGGTCGCGGCCGAGGTACTCTGCTCTGGGAAGTGCAACCTTTATTTCTCCT
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TTAGGAATGGATTTACAGTCCCTCTGGCTACTCTCTATCTGGGATGGAAAAGAAAGTGAT
GCTGGAGATAACTTTTCCTGCCATCAAGGGACATCTATAGAGGAGAGGCAATTAATTGTA
ATGTGCCAACTAGTTTTGATTATTCAGGGACTTGTGATGGAATTTGTGGATTATTCAAGG
TCCCTGGTTTTCTGTTTTGGCTAATTTCACTGCTCANTGGCGCCTCCAGAGGTCAGGGAC
AGCTATTCTCCTATGGAGTGTCCCCAGAGAGACAGTGGCAAAAGGAACCACCCCCTTTTG
AGCAACTACTCTGTGTCAGACACAGGGAGGATTTTTTTTTA

Sequence 3515
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTAGCCCATCTCCTGTTCCACTGTTT
AGTGAAAAGAATCCTCCATTGTCTTTTGTTCATTCTCTCCCCATCAGTGGACATGAGAGA
AAGATCCCATAGCCCTCTTGGTCTTGGTTGGAACAGGAGGAAAATGAAAACTGGACATCC
ATCTTAGGACTTAATCCTACGGAGACCACAAGCTGGAAGAGGCACTCAATACTAGCATGG
CTTCTGTGGCATTTTGATGAGTAGTATGGGCTCCACACTGAAATATTAATATCTTATTGT

TABLE 1A
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TTTGATGATGATGATGATGTTCATTGGCCCAGGGCAAAAGGTAAAGGTTGTGTTATAAAG
CTGATCTATTCAATATCTGTGGATGTTAACTCCACCCCATCCCCTTATTGAACAATTACG
ATGCCTATAAATAT

Sequence 3516
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATACTTTTAAGTGATTAAAAAGATTTGATG
AAAAAGTGCAGTTCTGTGTTGACTTTAGGAAACATTTTCTCCCAGCTAATGTCCTAATAC
TCAGCAAGCAAAATTGGAAAACAGTTTATATTGCTGTCAATATGTATAAGCCATGTCTCC
CACCATTACTTTTCCATATTAAATATAGAAAAAAGCAGAATCCCATGTGTCCCAGTGACT
GTCAGAAATCTTCCCTCTTCATTAAATAAAAATTTAAATACCACAT

Sequence 3517
CCCTTAGCGTGGTCGCGGCCGAGGTACTACTTCAGTCATTTTCTTAATTTGCAAATCAAT
AGCTCTCATTTTACTTAATAATGCCTGATATTTGCATGTTCTTCCTCAAATGTGTCCAAC
TGCTTAATTTTTTCTTCAAGTTCCTTTTCTTTTTCAAATACTTGGGTTTGTAATTGGTCA
AGTTGTGAAAAATCCCAGTTTAAGTCCAATATAGTCAAACACTTTTTTAAGTTTCAATAC
CTGTAAGATGCAACACTTAATAGCGGTGAGTCTGTCTTTAAGATTATAGATCTCCTCTTT
AACACCTTTATTTACTTCTTGATTAAAGTAATAGTTCATTGCGCTGTATACTGTCAGCCT
CCTCCTGAAGCGCTGATGTTTTTTCATGGAATTGTCTGCAAA

Sequence 3518
CCCTTCGAGCGGCCGCCCGGGCAGGTACAAATGCTCTCCCATAGGCTCTTTTATTGAATC
TATGAAATGATTCAATCTTTCCCAAAAGGTATTTGCCAATTATACAAAGTATTTTTAAAA
TTCTTATGTTATTTAACTAGTAACTCAATTTCTAGGAATCTTTCCAAGGAAAATAAAATC
AGAACTGTAAATAAAGTTTTATGGATTGGGAAGTTGGAAACAACTTCACATTCAAATTAA
TACCAATCTTTTTTCTTCATGAACATTTATCAAACATTATCATTATCAAACATTATTTAT
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GTGAAAATGTTCATAATTGAAAAAGCAGCCATATGTATGATATTACCCAATTTGTAAAAA
GTAATTGTATAAAAGTAAAAAAAAGTTATAGAATCTTGTGTTATAGCAATGCATTACATT
ATTTTATCATGGTATCTAAAATAATTATATTGGAAAGATGATATTTGTGTAACAAGGTTG
ACCAAAAATGGTTCTATCAANGCATATCTTATTTGGGTCATTGGGGAANCCCNTTCCTAN
CTGGTTATTTCTGGA

Sequence 3519
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATACATATATATTTATTTATACACACACA
CACACACAATTTTTTTCTTGGTAGCACTTAGCTATCCTCATATCCTTACAGATGAGGAAG
TATTTGGTTATCCTTCCCTAAGTCACTTAGCTAGTAGGTGGCAGAGCTAGGGGAGAGGAA
TATCAAATTAAGTGCTTTAGGCAACTTGTTTCTCCTACACTGCAGTGCACCTTTCCCCCT
CAAACACTTAACGATCAAGAGACTGTTTTAAGATGGGTCTTATCACGCTAAAGCTNAGTC
AAATGGGAAAAAAAAAATTGTTCCCTTTAAANATTTCTTCAAAA

Sequence 3520
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTA
CCAACTACTAGCAAACATAATTAAGGGATCATTGTATTGTCTAGGTGCGGCTTAGTAGAA
TATGTAAAGTTTTTTAGCTGTCCATTACCCTGGTATAATCTTGGAGCCATAACCCAAAAC
TATATTCCTGGCAAGCATGTTAAGAAGTGGAAAATATGGGTTTTCAAATCTTGTGGAAAT
ACTNGCCTTTCAAATCATGGGTGAGAAAAAAATGCTAAATTATTTTCTTACTATGAGGAA
GATTTCTTGCCATTTATCTATGTATACAATATTGNATCACAACAGTTAAGGTATAATATT
TCTACTCAGAACAACAGATTACAAAAAAATCATATGCCCCTTTCAGTGTTCATATTGCTT
TGTTAGGCCATCTCTCAGAATATATTGTGTAAAACCAGAAGTTTTAAGTTTTGTGTTTAA
AAATGAATGCACTATGATTATACCGTAATATTTTCTTTTAAT

Sequence 3521
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGAAATAAAGAAATAAACACTGTAAA
ACCCAACCCCCAAATGCTTGAAGATCACTCCTGGGCTGAGTTGTTGGTGTTTCAGGGTTG
GACATTTAAAGGGGATTTCATGAAAATTAAATTTCTTGGGTTTGTTTTTTCAAAGTTTTA

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AAATATATGTTTATAGATGACATGGATAAAATGAACTAAGGTAATATAAATAGTGCCTTT
CAAAGAGCAATAAAAGAATGCCTTTGGTCCATAAAAGGAGAGATTATCAAAAAGAATAAA
CTTGATTAGAAGAAATAAAAGTAGATT
Sequence 3522
CCCTTAGCGTGGTCGCGGCCGAGGTACCTAGCTTTTATTCATTTTATTATTCATCTTTAT
TGCTTTCATTGCACATGCTGTTAACTTCTTATGAACTCTTTGTTCTAATAAATAAGCATA
TCCAGGTTTTTCATAAATAAATGAGGAGTCTATAAATTCTTACTAGTTTTAATAGAAACA
TTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCATTTCCTT
TATGTTTGAATGTTCCTTCCAGGTCTTTGAAAATATACATTCTGAGTTGAAAAGCTTTAT
AATAGGTAAAACTCATTAACCCATATACTT
Sequence 3523
CCCTTAGCGTGGTCGCGGCCGAGGTACAATTCTTTCATCTTTTCTGTTTGCAATTTTGCA
TAATAAAATGCTAAAGGGAAAACATTTGATGAGCAGAGTATCAAACACAAGAGTAATAAT
ACTACTACTTACATGAAATTCTAAAACAAAGAAAACTCATCTATGATGTCAAAAATCAGA
TGAGTAGTTGCCTGAGGCAGGAGATGTGGGTGGCTGATGGCAAAAGAGCACAAAGGAACT
TTCTAGAGTGATGGAATGTTTTATGTCCTGATTGGGGTGCTAACTGCATGGACAGACACA
TTTGCCAAAATTCATCCAACTATACATAAAA
Sequence 3524
CCCTTAGCGTGGTCGCGGCCGAGGTACTCACTGCACACTTCTAGGAGTCTCTCTCACCTC
TACCCTGTTCCTGGTGGAGGACTATGAAATCCTCAAAAGCAAAAGTGACAGTTTATTTTC
TCTGAACAACTTCTGCATATACTTAGTTGGCTACACAGAAATCAACTGATCCTGAATTTG
AATTACCCAGCCTTTAGAATGTGGGAGAGGCCTTCCTTCACAGTGCTGTTAAGCAGACTG
GAGACTATCTACGTAAAACGCTAGCACAGTTGCTGACATGTAGCAGTCGCTCAGCCAAAT
GGAAGCTTTTATTATTACCTGTTTTTTTCAAACATTCAAAAACCGTAAATAACTATGAAA
TGAGAAATTGGCTATACAGTTTTATCTCAAGAAAATCTGTATATTGNTCTTAACTTCCTA
ATATGTATAAAATCATCATTTCGTGACATTTACTAGTATTTCTGGAGGGTAAAATGCCTA
ATGNCTTGGTTTTTTTTAACCATTCTACTTAAGTGGGGACCCAACATTCAGAATGGGAATG
GAATNAAGCAAGACTCTATTTNGGATCTTTGAAAGGNATTTAATGAAATGTTTCTATTGG
GNAAACAATTAAGTTTCAAAAA
Sequence 3525
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CACTGTGATAAATCCACCTAATACTTTAGCTCACTTGTTCCTCATAACAATCCTATTTTA
CAGATGAGGAAATGCACTTAGACTAGGAAACTTGCCCAAGGCTTAGGATAAATATATTTC
ATCTTAAAAGATAGGTGTGATTCGAGCTGTCACTGGCATTATCAGACTTTTTATATCAGA
TTTTATTGATGATAGATGACATAAATTGGGTTCTTAATATGTTAAGCATTGTTCTGTTAA
TTAACTTATCTTCACAAGCAACATAAAGAGGGAGGTAGGATTATTACTTGTATTTTGGAG
ATGAAAAATGCCCACATTGAGGGGTTTAGTAGCCAGGCCTCANAGGTCCTGTAGCTAGCT
GCTAAAATACCTTGCCAGGATTTAAATCATGGAAGTCTCTTCAATGGTATGGCTCTCTGC
TGAATTTGGTAATACAGCCCGTTATTTAAAATTAGGTTTTAACCCNNCNCATGATATGGA
AGATTATTTAAGATTTCATTTTNCCCATT
Sequence 3526
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCTCATTTTAGACATATTCTCTATGCAGTG
GAGATAAATCTATTAAAAGGTGCTAACAGACTCTCTTACAAGTGTAAGAGGAATCTACTG
TTGCTATGTTAGTGTGAATGTTGAAGGTGCAATTATCACATTGTTTATTAATTGTATAAC
AGATTATTACTAGAAA
Sequence 3527
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGAATCATATGTAGTGTCAAAACTGGAAGA
TTCCAATGGCCTATTCCAACATTTCCCAAAATGTGTTCCACACAATACTAGTTCCAAGAG
ATAGACAGTGTTAGCTCCCATTGAAGAGGGGCAGGGGGAGGGATTTATTCATTCAACAAG
TATTTTGGTTAAAAATTTGGGAAACAGTTCATACTGTATTCCATCCTGGAAAATCATAAT
GTATATCAATATTTTAAAGGCTTAGAGAAGTCTTATAGTAAACTGTCTTAGTTTACTTTA

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GTCAACTGAACATTTCCCACACTTTTTGATATAGGAACTGTGTGTGTGGGACACATGTAT
GTCAAATGTTAACCCACAGGGCAAATTTTGGAAAACAGTCATCTGTTCTATGGTATTTAT
ATACATTAACACTAAAAAAAGTGAATTAGCTCTTACATTTGTGTCACCCAATATGAGTAT
GTTGAAACCCTAATCCAGTGTGATGATATTTTGAAAGTGGGGGNCTTGGGGAAGGT
Sequence 3528
CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTATAAATTTAATCTATAATGATGTATTAGC
AATCATAGGGAACACCATGATGGTCAGTGTTCAGACTTGATGAAGACTGAAGCATGAGAG
AGGGCCAGACAGATATTGTGGAGTCCGTGCAGCTTTCTACTAATTTCTATTTACCAATAA
ATATGCCTGGGGATAATATAGGAGAATTATAGAAAGGAACAAGGAAACTAATCAAGGAGA
AAGTAGAGGGTGGTTTCCAATGAGAGAATTCATCTGCTTCTAATCTAAAAAAAAAAAGAC
ATTGACATATTCAATTTGTAGTGTCTTATATAACAAGTTCTTNAGTAATGTAAAAG
Sequence 3529
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACG
GAGTCTCACTGTCGCCCAGGCTGGAGTGCANTGGCGCCATCTNGGCTNACTGCAAGCTCC
GGGTTCACGCCATTNTCCTGCCTTAACCTCCGGAGTANCTGGGACTACAAGGCGCCGGCC
ACCATGCCCGGCTAATTTTTCGTATTTTTTAATAGAGACGAGGGTTTTCACNTGTGTTTA
AGCCAAAGAATGGTNTCGATTCTCCCTGGACCTNGGTGGATCCCGCCCCACCNTTTGGTT
CTGCCAAAAAANTTGCTTTGGGGNTTTNCCAAAAANATTAANGNNCCACTCGGGGGCCCC
AATACCCTAAAAATTTTTTTT
Sequence 3530
CCCTTAGCGTGGTCGCGGCCGAGGTACATGAGATGGCTCATTGATACAAGCAAAGCCTTG
GTGGCTCTGCGCTGAATTAAGGAAGAGATTTGAAAGCAAGGCTATTTCCCTGGCGGCAGT
AAAACTGGCTTCCTNGGAAAGAGAGCAAGCTATGGGATTAAGATACTTAATAAAATTTTA
GGCAAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCTT
ATTCTCTACACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAAACTCAATGCTTAAAC
TATAGCTTGATGTGAAAAAGTAGAGACAAATTTGCCCATGCTACATCAAAGTGTAAGAAC
TGTCC
Sequence 3531
CCCTTCGAGCGGCCCGCCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG
CTGTTTTTCTAAAAGACCATAGACCTTAGACGGAGGCACCTGTGAATACATTCTCTCTGG
ACAGAGGCATATTACCTCCTTACATTCTTGTGTCTTGGAAGATTTCTCACATTGGCAAAC
TGAGAGATTTTCTTCTGGAACACAGGAAAGATTATATTAATGCTTATAGCCATACCATGT
CTGAATATGGGAGGATGACAGACACAGAACGAGACCAGATAGACCAGGATGCCCAGATAT
TCATGAGGACCTGTTCAGAAGCAATTCAGCAACTACGAACAGAAGCTCACAAGGAGATAC
ATTCCCAGCAAGTGAAGGAGCACAGGACCGCTGTTTTGGATTTCATTGAAGATTACTTGA
AAAGAGTATGTAAACTTTACTCAGAACAAGAAGAGCCATTCGAGTTAAAAGAAGTGGTGG
ATNAGAAAAGAATTATTTTAACTGGACCNGGAACCC
Sequence 3532
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTGTGTTCCCAGATGCTATTTATCCAAGG
TGGCTAGTAAATTGCCTTAGTGATCCAATGGGTTCCCCCCACCCCACCTTGGCCACAGTC
TCTGCATTGCACAGCCAGCTCCCCAAGACATGTGGCCTGAGGGGTGCTATCTGCTATAGG
GCTGAATCATGCAGCTTCACTTTATGGGGAAGAAACAGGAAGGAGACTGAATGCAGATAA
AGAGAGCTTTGGGTTTGGGGTCAAAATGCCTGACTCCAGTCCTGCTACAGCACTTGCCTC
ANGCAAAGTGCCTTCC
Sequence 3533
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAGAATAGTCCCCTAACTCCCTGAGCTCGG
TGAGGGCAGGCAGGGATCACTGCTAATAAGAAGTAACACAGAAGCCAAATCTTTAAGGAT
AAACAANNAAAGGGAAAAAAAGCCGAAAAATGCATTATTGTCAAAAAGCAGTCCTACATT
CAAGGAGTCATGAGATAAAATGAAGTGCCTGGGGGAAACTTTGAGAAGCTTAGTTTGAAT
GAACAGAGGAGAATTGGGACTTCTTAAAGAGCGATAACACTGGAAATGTGTGGAAGAGTC
CAAACCACATACTATCCAAGGACAATCCACTGTCTGACATACTCAACTTTTTAACTGTGT

TABLE 1A

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TT

Sequence 3534

CCCTTAGCGTGGTCCGCGGCCGAGGTACGCGGGTATTTGGTATTTAAACAGAATTTCAGT
GGAAATCTTTCAAAAACTTAAACCTTTTTATACAGAAATCCATATTGAATATATAAGGCA
ACACTTTGTTAGTTTGCTTTTTGAGTTATTATTATGTTTGTTACTTGTAAGTTTGTAAGC
AGCTCTTCCTGTTTTCAAACAGATGAAGTTTTTAAACAGATAACCCAGCATGTTTCAATT
TTTTGTGGAATAATAGATGACTCACAGTAAAGTTACAACATATTTTCTTTTAAAGTAAAA
AACTTAAGGAATAATGATACTTGCTTTGCCATTCAAGGGCCTTTTTTTATCTGTTTACTT
TGNGGGATCTTACACATACACCAGATACCNAGTTTTGGGTGAAATAAGGGTGGTTATAAT
TATTTACTTATTGTCAGCAATTGCTTTGTGGCCTAT

Sequence 3535

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGACTTAAGAAGACCAAGACACACCAATCAT
TATGCTAGTTTTAAACGTTATCCCCTTTCTCTACTGTATATTCTGCCTCGAACCTATTCT
TACAGCACCTTCAAACTTATTTTGGGTTCCCTGTGATTTGCACATTGGAAGTGGAAATAA
TTGTGAGAGTGCTTGTAAGTGTTTCGCACTGTATGAGATAGTTTTTATGCCATATGGGAA
AAACACAATAAAAATTCACTATTATGAAATAAAATAGCATCATTGGTCATATAATTCACT
TCCTTTTCCTACAAATAAATTTTATTTTCTTGTAAGGAGAGAAACTAACAATAATTTGAG
TAGTTAGAGAATAAAGGAAATATTTGTGAGCCTTACTGGAATTTATTCAATATACCTGAA
AAAAATTGGTCTGCCTGTCCTGGTTGCTCTCTTTTCNTTTAATATTCCAAGGAATGTGAA
AACTTGTGGGGAAACCTNAGTGCATTAANCANCANCCAATNCTTGCTTAATGAAATGGGG
AACAAAAGCCANACCCATTTAAAAGCTTTNAGGAANAANAAGGATTGAGGCCAATTCCAA
TTCTNCAAACTTCACTTNCATAAATCTATCATTTTTTAAAATATTTAACAACTTCAAAAT
CCAAACTTANAAAAAAATA

Sequence 3536

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGGGAGCAAAGGAGAGTCACAGAAAATAAAGT
TTTAGAGGAAGTCAGGAGCCAAAACATGTAATGTCTTTTAGCCCATGAAAAGAAACTTGA
AATTTATTTTAAATGTTATGTGAAGTTATTTGAAACTTTTGGACAGATAATTAATTTATG
TTTTAAGCAAATCACCGGCTATTGTGTGGAAAATAGGGAACAGAGACTAGCAATGAAAAT
GGAAGGCGGGGGGCTGATAGATGGAGGCATTAGAAGTAATGAGAATTGATAGAAGTTGAT
GAGGTTGAGCCAGCAAGACTTGCTGATGAAAGAATCAG

Sequence 3537

CCCTTAGCGTGGTCGCGGCTCGAGGTACATAGAACTCAGTCTACTTATTTTTGTTCTATT
TAAGTGTTCTAACCTGTCATCACTATTAAATAGTGGAATTTGAATTTTTTTTGTTTTTTA
AACAAATTTGTAGGGGGGCAGATCTCTTTCTTGGGTTTTTCTTTCAACTTAGTAAGGCCT
GGCATAATGAATCGCACATTATAGATGTAAAAATTACTTAACTATGAAAGCATGCAGTGG
GGTCAAAGTTCTNCAGCCATAGCGGACTTTGGAAATTTAAGCCAAAAAGACAGTTTTNGG
TAATTTGGCTCTCCAGTTACATGTTTTAACTCCTTGAGGGTGTATGGGTTATTTCACATT
G

Sequence 3538

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGTTAAGGAAGAGTATTGTTGAAGATACAC
TTAGTTTTGTAAGATATATTAATTTGATCACTTGCACGTGTAGTTGAATTATTGCAAAGA
ATTGTCCAAGTATAAGAAAATGGGCTTCCAGAGACACTGCAATCTCTACTGTGCTGATTC
ACACTGCATCATATGATATAGAGGTTGTATCTTAATTTAGCATGGTCCTACTGGATTTGC
TTTTTATTACTAAATTACTAAATAACCTTAGAGACTAAAAACAACACAGCATTGTGAGAT
AATTAGGGGGTATTGTCTTTAGCCTCTAGGGGTTGTGGTAAATCTGAGCATCGTCTCACT
GGATTCTCGACTC

Sequence 3539

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAGCTTTTATTCATTTTATTATTCATCTTTAT
TGCTTTGATTGCACATGCTGCTAACTTCTTATGAACTCTTTGTTCTAATAAATAAGCATA
TCCAGGTTTTTCATTAAAANTAAATGGAAGGAGTCTATAAAATTCTTACTAGTTTTAATA
GAAACATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCAT

TABLE 1A
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TTCCTTTATGTTTGAATGTTCCTTCCAGGTCTTTGAAAATATACATTCTGAGTTGAAAAG
CTTTATAATAGGTAAAACTCATTAACCCATATACTTTCCATGCTGGGCACAGCANGTGTG
GGTAGGGTAAGAAATATAAAGATGACTCCCAANGATTTTTTG
Sequence 3540
CCCTTAGCGTGGTCGCGGCCGAGGTACCATCTTCACCACTCCAGGATTTAAGGCGTAAAT
CCTCTTACCAATTAGTCATTCGTTCAACAGAACTTCATGGCTAGGAAGTCACACTTCAAG
TTGCACTAGCACACTATTACTTTGGGGATGAAAAGTTTACATTTCCTAAAATGTGCTACA
CAAAAACATTTCCATAAGTGTTTTTCAGAGAGTCAGTTGCACTACAAGCCTGATGAAACT
TTTTCAACCATAAAAAGACTCGAGTTCCATAAACCGTCACAAAGATGTGAACAGGAGAAA
CTGCAGACTCTCCATCAGATATATTTATTGAATAAGCTGAATGGAA
Sequence 3541
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AAGCCACTGTGTCCCCAGATCTCACTCCCTCCTGGTAGAGCCCTGCCACAAGACAGAACA
GATCAAGAGGCACGTGGAAGAAAATATGAGCCCTCCAGGAATTTCAGTGAAAACCAGCTG
AGATTCGAGAGTGAGACATGGCTTTTCCAAATACAGCTGGTGTGTGTGAATTCTTACAAA
ATTACAGGAGCAGCATTGTCACTGTGAGTGAGAGATGATGTGGTCCATTTGAGAAAAGTC
TGTTTTCTTCCTTAAATCACATTCCAATTT
Sequence 3542
CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAGAGATGGTAATTTAAACTTTTAAAAATTT
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TCCACTGAATGTCAATGCTATTAAATGAAATACCATTAATCAGTGTTTATCCATCATTTT
ACAGTCAGGACTTAGAACATGCTTAGCAAAGAAGTCTTCCAAAATTTGCTGATATGCCCA
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TGGCTTGAAACCACTTTNGGGGGGTCCGATTCCTTCCTTTTTTGNCTAAAATTTATGTAT
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NGGGTCTTNTACTTNTANGACTTTCCCTTTNAAGCGAANGCTTTTNAAATTCATGAAAAT
TNTTAATTTTACCGNTGGTAAAAAAATGAATGGNCCTCCCNATGAATNGGAGGTTCATGN
GGGGGCCCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCCNTTNNCCTTNCTTTCNTTNTT
NCCTTTNTNTTTCCTTNCCCN
Sequence 3543
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGGACTTCTTAAAAACAATCATCCCTGTGT
TCCATTTACTAAGGAAAATTCCCTCGTCGCGCATCAGAAAGACTCAGGACGCTAAAGAGT
ATAGCTAGCTGCTCATGTCAGAAAGGGGGGAACCAGGAAGGCTATGGTATCCCACTTAAC
CATTAGCCAGCACATATTGTGGACAGATTTAAATTAGAAGACACTTGGTGATATCACTTA
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GTAAGAAAACATCCCAACAAGTGGACACATGCTTAAAGTATCTAATGAGCGAATAAAATG
AAAATT
Sequence 3544
CCCTTAGCGTGGTCGCGGCCGAGGTACTGAAGCATGTGAAGAAGCATCTGCCCAAAGCAC
ATGTGAAGGAGCTTATCAGTTGGCTCGTGGGTCAGGAATTCGAATTAGAAAAAATGGAGT
CCATATGCCAGGCTCGAGCAAAGGAGCTTGAAGACTCCTTGCAGCAGCTACTGAGACTCC
AGGATGACCATAGAAACCTGAGGAAGTGGTTGACTAATCAAGAAGAGAAATGGAAAGGAA
CGGAAGAACCAGGGGAGAAAACTGAGCTGTTCTGCCAAGCTTTAGCTAGAAAGAGGGAAC
AGTTTGAATCTGTGGCCCAATTGAACAACTCTTT
Sequence 3545
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGAAGTGTCTTCTTATGAGTTCCATTTTCCC
ATGCCTGGTCCCCATTAAATATAGTCCTAATCTATCTGTCTTGATTAATTTCTATTGCTC

TABLE 1A
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AGTTACATGAACCCTTTTCTCTAGCCAGACTACATAACTCACTCTGTCTGCCACATATCC
CCTGTATTCCCATAACCAGACTTGACATGGGGGACTCAATTTGGCTGGATTGACCAGCCC
CTTTTCTCTGAGATCTGCACTCTGTGTTCCTCATTAAACTATCAGCAGTTATGTTTCTGC
CATATGACCCTCCTCTCGATCCATAAA

Sequence 3546

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTATTTGGGNGNTTT
TGAGACAGAGTCTCGCTCTGTCACCCAGACTGGAGTGCAGTAATGCAATCTCATCTCATT
TCAACCACTGCTTCCCGAGTTCAAGCAATCCTCCCACCTCAGTCTCCTGAGTAGCTGGGA
ATACCGGCAAATACCACCACACTTGGCTCATTTTTGTCTTTTTGTAGAGACAGATTTTAC
CACATTGCTCAGGTTGGCCTTGAACTCCTGAGATCAAATAATCCAGCCTTTTGGGCCTCC
CAAAGTGCTGAGATTACAGTCATGAGCCACTGTCCCTGGCCTGTGTGCTCAATTTTTAAT
GAAGAGTAAATGAATGAATAATTTGCTCTTCTTTCATCAAGACTGGAAATATAAGCATTG
TGTCAGCCAGGAAGCTAAAGAGAAACCATTCAGCTCCAAATCTTAACTACTTTGCCTATT
CTAGCTGGCCTGTTTATGATGCCGCAGACAGTTAGCTGAAAATATCAGCTTTGTTTAANG
GGAACACATCCCAATAAGGCAGAATGAAAAGAGTTTTTTTTNTTAAAAAAAA

Sequence 3547

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCATTCAGGAGCACACAAGGGCCTAACTTATG
CCAAGAATAGAGAAGAGTTAGAAATGACTCTCAATAGTGTGATTTGTAGAGTCCCCCGGA
TCCCAAGGCAAGGGTCTATGGAACCTGTTCAGGTCAGGTGTTTCTGTGGTGTTCGCTGCC
GGTGTGCGTCAGCAGATGTGGCAGGAGGAGGTAAATAGCCACGTGCCCTTGGGGTGAGTT
TCGGTTTCTCCAGCTTTCAAGGACTTCTAAAAAGTGAGCCTGGTTGCAGCTTCTACAATG
CAGTAATCCTGGCCCTTCTCTGAANGTCTTTGAATCATTGCTCTTGGAATCACTTCTGGG
TTGCTCATCACCTCAACTTTTTCACCCTTCCTTTCTTA

Sequence 3548

CCCTTAGCGTGGTCGCGGCCGAGGTACACGTTTACAAAAATCTTCTACGTGCCTAGTATT
CTTGCTATCCTGTGGCCTAGAAACAAGCATAAGTGGCTAGAGAATAAGGCACAAAATGTG
CAACGGAGAGAATCTTTGTCTTATACTAGTGTTCTTATAAATATGACCAAGAGAATCATC
AAAACAAAATGAAACAGCCTGGGGATAACAGCAAGATGGAGGGTTCCCAGGAGCAGCACA
GGATGGGAGATGGAAAAGGACATCAGTCAGTGCCTGTGGTCTGTCAGCTGCTTGACATGG
GCCATCTTCATTCAACTTCCTTAACACTTGANAATTANGTATTGGCATCCCTGCTTTAGA
TGAANAAAACCAAGGCACAACATGATTAAATTGTGCAACTGNTATNCTGCANAACCAAGA
TTTTCA

Sequence 3549

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAAAGCAGTGGTAACAACGCAGAGTAAGG
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AGGAATGTTGGGATGCCTTAATCCCTTCAGCACAGGTCACTGTTGATTTAGAGAGTTGGG
TGCAGCTACCATGGCCTGAGTTGTTTTCTCAGCTGAATCAGATTCAGACAGGGCTTCTTC
TGAGACGGTGGGATGTTCTTCTAACAGGTGTGAGGAATAATTATCTCACTGTGTCTCTCT
GAGTTTCACTTACCTTTCCTTAACTCTGTTATTGCCACAGGCTGTAATGCCAGAAATGAG
GGTTTTTGGAAAGTCGCTGCATGTCTGCTTGGTTGTGAGTCTGGGCAGCTGATGAATGGG
TTGCTGTTATGGTGTTTACTTTTCTGAATCAAGTGTTCCTTTGCAGAAGCAGGGGGCTTC
AGCCATTATGTAAGCTTTCAAA

Sequence 3550

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTCAGAAAGTAGGGTCAGTTTTTTGTT
CCTATGTGCTACTTCCAGACTATGATTTTTCCTAACTGTTCTCTGAGACTCCTAACATCA
GGTCTGTTAAAAAACGATGACTTTAGCCGGGCATGGTGGCTCACACCTATAATCCCAACA
CTTTGGGAGGCAGAGGCAGGCTGATCAACTGAGGTCAGGAGTTCAGGACCAGCCTGGCCA
ACACAGTGAAACCCCATGTCTACTAAAAATACAAAAATTAGCCGGGTGTGGTGGCATGCA
CCTGTAGTACTTTNTATTNTTTTNNCTTTTTTTTACACAATATATGATTTTATTAATAAA
TAGTGCAAAAGCATCANTGATAACTGTTTGAACATTAA

Sequence 3551

TABLE 1A
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CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGAGATGGCTCATTGATACAAGCAAAGCCT
TGGTGGCTCTGCGCTGAATTAAGGAAGAGATTTGAAAGCAAGGCTATTTCCCTGGCGGCA
GTAAAACTGCCTCNTGGAAAGAGAGCAAGCTATGGGGATTAGATACTTAATAAAATTTTT
AGGCAAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCT
TATTCTCTACACACTCAGGCTAGAGAAAAAGTGGGCACATTTCAAAACTCAATGCTTAAA
CTATAGCTTGATGTGAAAAAGTAGAGACAAATTTGCCCATGCTACATCAAAGTGTAAGAA
CTGTC

Sequence 3552
CCCTTAGCGTGGTCGCGGCCCGAGGTACTAGACAGGTCAGGCCTGAGTGATTGTTTTATG
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GCTTCCTGTCATTTCTAGGTGACTAAAACTATCTTGACACCTATGCAGACTTTCTGACTT
AGATTTATAGAATGAAAGACATGAAAGATGAAAGATACCTTAGAAATTAACTGGCTTTAG
CACTGCATTTTATAATGAAAATAATAAGACTATGTGAGAAGAAAAGAGGCATGTTGGCAA
ATGGGAAGATTTATGGATATGACATCAGAACCATGGGGAAGGGTGGAGGAGGGCATAGAG
TGATTTGGCTNCGTCCTCTAGGTGGAAGGCTCTCAAAGCACAACTTGATTGATGAGCCGG
ACAAAAGCTTGGGAGACTATGNCACCCCGCGTACCTGNCCGGGCGGGGCGCTCGAAANGG
CCAAATTCCAGCACACTGGGCNGGCCGTTCTAGTGGATNCGAGCTCGNACCCAACTTTGG
GGGTAATCATGGNCATAACTTGTTTCCTNGGGGAAA

Sequence 3553
CCCTTAGCGTGGTCGCGGCCGAGGTACCCTGACTCCCTAATTTGTTCCTACAGATTTTAA
TTTTGACATGGATGGCTTAGGGAGAAAGCAGAAAGGAAGGAAAAAGAGAAGAAAACAGAA
AGGAAGAAAGGAAGGAGGGGAGCCCTGGTAGAAATTTCATTTTGTCCAGGGCAACTTGGG
GACTTACAAAGGAAAGACCAGAGAGCANAGGCNGAGAGAGGAAATGGAGCNAGAAGTGTG
AAAATTAAAGGGGAACCCCAGAAAAGAGGAAAAAGTTTGAAAATTAAGTTGTACCTTTCT
NTTGAGCTTTTTTGTTCAGAAAGTGCCCCNAAANGGGGGTTGGNGATACTTANAAAAAAG
TTTACAAGGAGAAACNCTTAATTGAAGAAGGAAAATTCTTTGATGANGGTTGTTNTGTTT
TTGAAAATNTCTTAAAAAGACAAAAATCNTTTATTACCAAATATTNTTGCCCCAAGGGGN
GAATTTAAAACTCCTTAATTTTGAAAGGGCCTTTTTTTTTTTTTTTTTT

Sequence 3554
CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAGTGATATTAGGATGTAGGACACCTACACA
ACTTGGNAAATGNTTGTATATAAGGAATTTAGGATGAGTTTGTTTATTGAGTAATAAGAT
NACTGNGAGTACCCAGGCTACCTGTCAAAGGGTAAGGGNAAGAATTTTGGCCCCATGTGA
AAAGTTTNGGGNGGGTGAACAAGGGGNNAAAGGGGCCTTGNTTAAATGGAAATTTNNGTT
NTTTTGGGNAATTGTTTGGTTNTNGAAGNTTTCCACCAAAAAAAAATTTTNCTTTCTAGG
NGGNTTTCTCAATTTAAATNCTCAAAAACTTTTCCAAGATTTTTTTAAAAAAAAAAGGTT
CCAAAANTTNGNAAAGGTTTTAAAANTTTTTTTTAACCNTTAAAATTCTTTTTTTTGNGG
NGNGGGGTCCTTTTNGNTAAATTTTCCCCCAATTTGNNCNCCTTAANTTTTTATNCCCCC
CTTTCNTTTTTTTTTNCCCCCNTTTTAAGGTAATTNCTCCTTTANNNTNNTTATNAANAA
ATANTTAAGNGNNCCCCNNCNNAAATTTTNTTTTTTTTTT

Sequence 3555
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGGAGGGGAAAAAAATTTATCTTACCTCCA
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AGATAGTTAAATATAAGAAATGCTAGGCAAGCATAATTTGTATATGTATAATACACCCTG
AAAATTTTATTCTCAACTTCACTTCTGTTTAGATCTGAGACACTAAAAATATTTCCTTTA
GCAGAAAATTCTTCAATGATTATNAGAAAAGAAAATTTGCTGGTATAGTCACAAATTTTA
ATATTCCAAAATTAAAGAAGTGCCCTTAAAA

Sequence 3556
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGATGCCCGAGTGGACATCTCTCATTA
CACACCCAAGGCGAAACTTAGAAATAGCAGTGGAGGTAGGGATGGATGTATTGCCAGTCT
TCATATTCCGAGCTATTTATTCTCTATGAGTGCTTAAAAAGGACAGTAGGAATGTGTTTT
TAAGTGGGGCATGTGTGCTCCTGTGAGTCCAGAGAAGTTGGCAATTCTGTGTCAAAAACT

TABLE 1A
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TGTATTTTTGCATATGTATGGCAAAAGTAAAGACTTGATTTCTGATTTTGAAGACACATA
ATCTAATTGGCAACACAAAATTTACATTCACTATACAAGAATCANTANAAGCAATATGTA
ATCANGTATTCTATAATTTTATTTGGATAATAAATGCCATGGAAACTTTACAATGGGGCA
AACAAATTTGGATGGAAATAANGGTAANTGACCTGTTGCTTTATTTATTTAAAAACCTNA
AAGCTTGTNCTTTTTANAATGGAAACAATTTGNAAAAAAAATNAANAATNNNNAAACAAA
AAAGGTNTTTAAAGCNNGGNCCTNNTGGGCCANNACAATNTNTTCTAATNAAAACNNNNC
TTANTATTTTCCTTAAAAATATTATCCTTTNAAAAGCNANNAATAATTCANCCTTTTTCC
AAAAATNTNTTCAAAAAAATTTNTT

Sequence 3557
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTAAAGGTAAGTCTATGAGAATGCAAGCGGG
TTTATTTGGTTTTAAACAACACTTTACTCGTTACTCTGCGTGAACTCTGTGAGATGGCAC
GATGATTTTAGGAGAGCTGATGTAAGTGAAAAGTTACACTCTCAGCATTGATTGCTTAAT
AATAAGGGAATACTATGGAAAGAGGAACATGGGTTTCCCTCAGATTTTTCAGAATTGCCT
AAAAGAGCAGCAATTGTTTTAGCGGCGTCTGTCAATTCCAAACTATTCTGAAAGAAATTT
CTGCCCATCTTAAAAGAAAGCATCAAAATGTCATAAAAAGTTGGAAGCCCATAAGCTTGC
ATAGCCGCTGCTGAAATTCTCTGGGGTGAGGAGCGGGAAAGGGGTTAAGATCTAATCTTG
AACCTCTTCTAGAGTTACCTGGGGGATCTGAATCTGCACTTTCTGGGTAAATCATAGCTT
ATTAGTGCCAGAAGTGAGGTTAGAATTCATCTGGTGAAACCACTGCTATTTTACACATTG
GAGAACTGAATNCCANTNAAA

Sequence 3558
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTCTTTCTTCCGAGGTTTTATAAAAG
TCAGAGAACCCAGAAGGCCCATAATTAGGTTTTTTGCACTCTGCCTTTCAGGCACGGTGT
GTAGGAATTCCAGTTTGGATGATATTTGCACATTTTGATGTGTCTCCTGAGTTGAGTATA
TGATACTCTTGTGGGAACTACAGGTGTGTTTTCCTCTAAGAAGGAACAGTGCTTCTGTGT
TTGGGAAGGCCTTTCCAAGACACCATGTGCCATCATTATTACATCTTTTTTTATGTGTGT
CTTGGGATCTTTCCATCACTAATTTAATAAGCATAGCTTATTATAGTGAGCAGCCATTTT
TGGACCTGCCCTCCTTTTCAAGTTTCATTTTTTTCTTGCCTTTTGTTGCCCTTGTCATTC
TCTACTTGAAGTTCTCAGATCCAGAAATTGGGCTTTAATTTCTTTGATTAGGNCNTAAAA
AATGCCAACACATATACACTCNAGATGACACTTAATGGGGGACTGATAATTGCCTAAAAA
ACAATCCNGCTTTANTTGGATNGGGGGGAANAANAAAACTTNGGGAATAATTATGGTNAA
TAAATTAACCCAATGGGGTNTATCAAAAATTTNGGAAANGAATTNCNGAATAACCTNCCT
GTTAATTAAAAA

Sequence 3559
CCCTTAGCGTGGTCGCGGCCGAGGTACAGGCTCTCTCAGTGGCCAACTATTTGGTGATCT
GCACATTTTTAGCATAGAACCTTGAAATGATACAGCTGTGCTGGTCATTACGGAATTCTC
TTTTTGTGTGACAAGAATTGTGACAGGCTCCCAGGACCTAAACCCAGAAGGAAGCAGGAC
CATATTGCTGCCTAGAGAAGGGGATGGAGCATATTCCAGGACACCGATGAAACAGAAGCT
TCCATCACAGTGCTTTCTGCTACCTTATGAGACAGTTTCGCATCTCAACAGCTNTAGGAT
ACAAAGGAAGCACATACATTTATACTTTATAAGGTGGCCAAGGAATCCTACTGTGAACAA
AGAATTTCTAAGATAATAAAATCCCAC

Sequence 3560
CCCTTAGCGTGGTCGCGGCCGAGGTACCTATCAGATACAGAAACTGCAAAATGCTACAAA
AAATTCATCTAATGTATAATATGGAGTGTAACATTGGAAGAGCAGAGGGGCTGTGAAGTG
AGAGTCTCTGTTGACTTTGTCTTTCACAGACTCAAACAAAATACCTTCGATGTGACTTTA
CTGGCCCCTATTTTAGTCCCCTGAGCCTCAACTTTCTGTATTTCATTGGGCTTTTGATCA
CTAATTTTACGTAAATTTCACTAATACTTACTGGAGTTTTCTTACATTTGGTTTGCTTAA
ATGTCAGCAA

Sequence 3561
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTTCATTTATTAAAATAATACATATTGA
TCTCTTCTGGGTTCCAGACCTTATACTNGGCTTTGGGTAAATGTTGGAGAGTAAAAGAGA
CATTGNCACCACCGTCATGACTGACCCTTTGATTGTGTGATTAGAAGTCTCTGTGGCAGC

TABLE 1A
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ATGGCCCACAATGAGCAACATACGCGATGTGTTTCANTATCCAATGCCAATGGAGTGGTT
AAGTCATTTGGGGACATAATATGATGGAATGTTATTAATCATTCAAAGTAGTGTTCATTG
ACAATTTTGATGTAATATGTTCAAGATTTAAGTGAAAAAGCTGGTTACACGTGAACTGGA
AAAAAATTCTACTGGATATTATATTACTGATTTCATGGGATGNGGAATTATGAAGATTTT
CATTGNCTTCTGTGTCTGNTTCTGNATTTTCTATTAGAGAAATATTTTTCTACAATGAGC
NTATGCTTTAATACTAAAAAAA

Sequence 3562
CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGTTAACAAGATTTCTATGCCAAATTT
TCAAAGTTTTTATCATCCCTACCTCATTAGGCTTAGAGCAAGACTTTGGTAACAACGGAA
ATAATTTGGAGTCATGCTCTCAGCTGAAACACAGAGTTTCCTTCCATAAGGTCTAGAAAC
CTGTGCAGAACATGAAATGTAAACCCTTGAGCAGCCATAATTTTTCTCAAGTATCACACT
TCTCAGTTTCCAGTGGGATCTTTTCAGCTTTCACGGTCTCAGCATCCTATTTATCAGTGG
AAAGTAATCAGGGAAA

Sequence 3563
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAAGACCCTCAAAATATGTAAAATCTTTGAC
ACTTAGGTGTGTCAAAGATGTTGAGCTCAGCACAGAATATGCTTCCCATTCTGCTGGGCA
CAGTTGTTGCTTCTAAGAGGCTGCTCAGCAGAAAATAAATTTCCCAGTATCCATTGCAGT
TAGGTGAAGCCAAAAAATGGAGTTTTCGCCAAAAACATGTGAATGGAAGTGATGGGTCCA
TAGAAACTACCCATGTAAGCCTCCTCCATGTGCTCTTTCCTTTCTGGCTGGGTTGAATGG
AAAGAAGCACAAAGCCATCATCATTTTGGGACCTCATATGATTGCATGAAGATGGACTAT
CATACCCACCAGCTCATTCAAAGAGGATTGTTCTGTCTGCAAGATTGTGATTAAGACACA
TGTTTGTAGATCCAATTATTACAAAGTTAGCCTCACTAACTCAGTAAATTTAGATTTTAA
AAGATAAGTTGATCTTTANCTTTA

Sequence 3564
CCCTTAAGCGTGGTCGCGGCCGAGGTACCATGAAACACGTCTATACAATATGGCATTGTA
AATTGGTGTCACTTTTGCACAGGAATATGGTAATAACGGAGCAAAATTTAAAGTGTTCAT
ATGATTTGACTCCACCATAATCTCAAAATTTCATCTAAAATATACTGGCAAAAGCATGTC
AAGTTATGAATAAGAAGGCTTGTCATAACACTACTTGTTTAGCATCAAATTTCCAGTTTA
CAACAAATTGGAAACAACCAGGACGTCTCTAGCTAGTAACCTAGAAAAATATGTAACAAG
ATTAAAAATTTAGTTAAAACTATATATTTTGTGTGTATTGGGGATATATGAATAATAGTC
ACACTTCTGAAGAAATGGGATCCAGATGTCATAAATATGAACAACTTTCTTATTGACAAA
GATGACTCTAACAATGTGGCATAATCACTAGCCAAGTTAACTACTTTATTCCCAGAATTA
AACATATNCATGTATCATTAANGGATCTCCCCAGGGTAATAGTGGACCCTGCTTTTTAGT
AAACCTCATTTAAAATTGGGAACCAGAATTTAAAATAACCTGGAGAACAANAGTGGCTNC
CAAAAANANGNGACCTTGAGAACCATGTTCANAACCTTTANTTTCCTTTNTTNTCCCCAA
TCTGNAAATTCTTTGCTTNCNNGNGGGGGAAGGGCCGGAGTTTATTAAAAAAAGGT

Sequence 3565
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCTGAAAACAATATCTTTAAGAATAA
AGGANATGAAANTGGGCATGGTGGCTTGCATCTATAGCCTCAATGACTTGGGANACTGAN
GGAGGGAAAANTTGNTTGAAACCNAAGGAACTTGAGGCTACAGTGTGCTATTGAAGCATG
TGTGTGAAACAGNCACTGCATTCCCTCCAGCCCAGACAACACATCAAACTGCTGTCTCAA
AAAAAATAATAATAATAAATAAGAATAANGGAGAAATTAACACATTTCCAAATATTATAA
AACCCTAAGGTAGTTCATTACTTGATAGACAAAAAATGCTNCAGGCAAGTCCTTCAANGC
TGAAAGGGAAAGNAAATTTACTTTAAACAAGCAATTTTTGAAAGCCCNNAAAAGGAAAAA
AA

Sequence 3566
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AAGGAATCATAGAAAATTAGTGCTGAGATGAACTCTGAGATAATAGAATCTAACATCCTC
ATTTTAGAGAAAAGAAACCTGTTGTTTATAAGGAGTTGACTGATGTGCCTAGGGTCACAC
AGCTAGAGCCCTTTAAGCCAAATTGTTGCTCTATTATCCTACACATTTCCTCATAAATAA
GTTCATGGGCAGGAGGTGAGAGATGAAGAAAATAGATACACCAGTCACAATGTTAAGAGA

TABLE 1A
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AAAGCTCTAAGAGCCAGGAAGAGAATAAACAAAAATGAGGGGAATAAAAGAATCAAGAAA
GAAGTAAATCTTTCTTTGTTCAAAGACAAGTTCCAGACAGAACTGGGAACATTTAAAGCA
GAGAAGGNAGAAAAAAAAAAA

Sequence 3567

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TATTTTCAATATTTCACTGTTACATAAAATAAGGGTGACCATCAAGGTTGATTTTGACTT
GAGAACCAAAAGTTCTCACTGGAGGCACCANGAAAAAAAAATGTANTATNGNCCATANNN
NNTNATNTNATATACAATNNNATNTNCAATANATNATA

Sequence 3568

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AAACCTATAACTGCCCAGAAGTAGCAACGGAGCTGAAGTCAGAAAGACAATGGAAGAAAA
TGATGGAAGTCTTAGGATGGCAACGAGGACACATTAATCATGGTAGCGCTCCAAATATAA
AGCCTGTGGTCATAAGATGTGACCATTTGGAATCCCTTGACTTGAGTTTGTTCCCGTCAT
CCTTCCAACCTTTCAGTTTGGAGGCAAAGGAGGTTGTATCCAGAAATAAGTATAATCTTC
AAATGTGCCTGTGGTCAAAGCCTTAGCACCAACCACATGAGTTTAATCCAACGGCAAAAT
TATACAGTGGAAGAGGAAGTAACGTGCGTGCCAACGTGGAGGTGAGTTTAGTTCAACATG
AGGTCCCAGTCTCAAAAATGCTCTCATCTGAAAAGAGTTCAAACCTCTGCTTCTGGCCTG
AGATAGCCTTGAATAACAGGTGGGAGAAGACAAATAACCAGAACTAAAAGGGTGGAAAAA
CTA

Sequence 3569

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGGTTTATGGGAATTTTCGCTTTCTGCTCC
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CAGATTGATGGATTTTTTTTTTCTTAAACAGCTCTAGAGAACTGTGTCCTATACAGAGTG
CATGTTTTTAGGGGTAGACAGGAATGCCAACTTGGGAATCATTCTAAATACATAACATGT
TTATGTTAACTCTTTTCAGATCCAAANGTTGTGGACACATATATAAAATTTAATTTGCTT
CTGTTAATTCAGAGATGGAGTATAAAACTTCAGGGGAAAAATATTGTATTCACAATTTAT
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Sequence 3570

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTCATCCCCCATTTCACCAGTCTTTTCCTGGC
ACTTTCTCCCTCTATTCCTCACTCTAAGACTGAGTGGGGAATCAATATTTGGCTGTAAAG
GAGTATATGGTGTCTTACCTTGTGTGCTGAAACAATGTATTTACTCAAAGTGTTATGGAT
TTTCTTTTTTCTCTACATTATGCCAAGACATAAATTCTGAGAGTGTTTATGAGGGTGCCT
CTTTTCCCCTCTGCTTTCTTTCCAAGTTAGAGACATCAAAATAATAAGCCTTAACCATTT
TCCTGTTTTTAAAAGAAAT

Sequence 3571

CCCTTAGCGTGGTCGCGGCCGAGGTACATGAGATGGCTCATTGATACAAGCAAAGCCTTG
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GAAATGCAATTTTTAAAAATGACCACAAATATCCCAGGAATAATTATTCNGAAAGGATGC
AATGGAAAACAAAAATTCAAAGAATCCATCAAGGGCNTTCCCCCCNAAATTAAAATGAAA
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TABLE 1A
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ATTAGGAGAATTTGAAATTAGCCAAAGCAAAGTNTTCTGTNAATATAAAATAATTTT
Sequence 3572
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TCTTTAAATAAGTTAAATTTATGGTATAGCAGAGTAACTGGACTTTTAATAAGGTTTTAG
AAGTCAAAATAAAGACACTAGTGTGAATGATGGTGGGTTTCAATTGTCTCCTGGGCATTT
TGGTCTATTGGGTTAGGAGAGTAGGGGTCCCAGAATGTTCTGTTTCTTTTCCTCCTTTAA
CAAATTTTATTGAACACTTACTAGT
Sequence 3573
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TATGATTTGACTCCACCATAATCTCAAAATTTCATCTAAAATATACTGGCAAAAGCATGT
CAAGTTATGAATAAGAAGGCTTGTCATAACACTACTTGTTTAGCATCAAATTTCCAGTTT
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ATTAAAAATTTAGTTAAAACTATATATTTTGTGTG
Sequence 3574
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AATGATTCATTCTTAGAAAAAAGATTCCACTGATATCCACTCAATACTTGTGTCTCACTT
GGCAATTGGCATACGTGACTGTTCCTCTATTTTTCCATCTACCTAATTTCAAAGGATTTC
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GTGCCAAAGACCACACATTTGGGAGAAAAATACAGTCCTTTTTAAAT
Sequence 3575
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GAAGGTTAAACAATT
Sequence 3576
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TAATCCCAGCACTTTGGGAGCTGGAGGCAGGAAAATTGCTTGAGGCCAGGAGTTTGAGAC
CAACTTAGATAACATAGCGAGACCTTGTCTCTACAAAAAATAAAACATT
Sequence 3577
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TGATGTTTGNATGTATAGAAAAAA
Sequence 3578

TABLE 1A
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AGGTAATTTAGGTCATATTGGTGAGTAAGACGGTATTGGGAAATACCTTAAAGTTCAGTT
ACCTTAAGTCAGAGAACTGGCCTGCTAGGAAGTGTTGGGAATTTGTCTTTGGGGCTTTGT
CTTCCTATTATCTTTGCAACTTTGCTGTAAATCTAAAATTATCCTAAAAGAAAAAGTTAC
TTTAACAAAACAAGATTCATAATG

Sequence 3579

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAAACAAAAACTTTCTATTGTTTTGAAACCT
TCAAGTCCTTTACCTATTGCCCTTTTCCCACTTTGTTTTAATAATACAAAAATGTAAAAC
ATCTCTTAGGAACGTAAATTATAGACCAGGCATGGTAACTCAGGCCTATAATCCCAGCAC
TCTGAGAGGCCAAAGCAGGAGGATCACTTGACCTCAGGAATTTAAGACCAGGAGGAGACC
TCTTCTCTACAAAAAGTAAAAAAGTAAAAAAAAAAAAAAAAAATTAGCCAGGCGTGGTGG
TGCACACGTGTGGTCCCATCTACTCAGGAGGCTGAGGTGGGAGGATCACTTGGGCCCGAG
AGGCTGCAAGGCTACAGTGAGCCATGATCATGCCACTGCACTCCAGCCTAGACAACAGAG
CAAGACTGTGTATCTAAAAAAAGAAAAAAAATAGAAATTTATTGTTACAGTAAGGGGTGC
TGATTATCTCACGTATGTTAATGTTCCAAAATTGATAAAAGCTGGCTTAAACCACAATCT
TCCCTTAGGGAAAAACCACTACATTATATTAATNCAAAAATTTAA

Sequence 3580

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGGGATTAGGATTTCATTATATTTTGTTGG
GGGGCAGAGGAGGGTCACAGCTCAAACCACACCAATGGCTTTGTCAGATTTCCTGTTTTA
CTTCTGTTGCAGTTTTGTCTGTTCTCTCTTTAGTAAACTATCCAAAAAAACCTCTTGATT
TTATTGCAACTTANTGTAATACTTANGTATTCATTCCATTATCAGAATATTTTNNNTATT
TTTGNGACCANNGNNANGGTGCANTA

Sequence 3581

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CTGCCTCACTACCCTGTATCTTCTATTTTTACCAGGTCGGGTCCTAGTAGAAACAGCAAC
TCTGGGACCAGGCCACCTAAGCCTGACCTTCAAGCAGAAAATGTCCAGTGTGAAAATTTA
TCTTAAGTCATCAATCATATCAAGCCATATAACATTTTTATNCATTAAAATAAAAAAATA
CATATGTTGAGATGAGCAGCTAATAGCTAGTGCTCCCTTCAA

Sequence 3582

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GGCTTAAAGATACCAGAAACACTGACTGAGGTCTCCACCTGCTTCTGNTGAATGAATGGG
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TGACTTTTATAAGAGAAACACTCAGCCTTTTAATTGCTGAAGGTCTGGCCCATAGACTAA
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TGAGGAATTTTTACTTGTAGAAACTGAAGGCTCGGAAGAGGATGATAAAGAAAATGATAA
GACTGAAGAAATGCCAAATGATTCAGTCC

Sequence 3583

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ACTCGGTGCTAGTCACTGCTGNGTGTTTACATTGAGTAATGGAGCTGCCGGGGG

Sequence 3584

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGACAGCGCGCGGAAGAAAAACCAGCA
AGAAGGCGGCGGGGGAAGATGGCGGTCCTGGGGTAGAGTTTGCAAGCTTTCTGACTAGGC
TAGTCGAGTAACTATTCGGGTCATGGCGTCAAACTCAACTAAGTCTTTCCTGGCAGATGC

TABLE 1A
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CGGCTATGGCNAACAGGAACTGGATGCCAACTCTGCCCTTATGGAATTGGACAAAGGCCT
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GAAGTATCCATTCCCTATTCTTATCAATTCTGCATTCCTAAAGTTAGCTGATGTTTTCAG
AGTTGGAAATAATTTNCTGAGGCTATGTGTTCTTAAAGTTACCCAACAAAGTGAGAAACA
TTTNGAGAAGATTCTAAATGTGGATGAATTTGTGGAGAGAATTT
Sequence 3585
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ACAAGACGCCACTTCACTCCCGCGGGGACGGTGTCAGTAAAAACAGGTGAGAACCAGTTT
GGGTGAGGATGTGAAGAAATGAAGCCTGAGACTGCGGGTGGCATGGAAGCTGCTGCCGCC
ACTTCAGAAAACAGTCTGACGGTTTTTCAAACAGTTAAGCAGAGTGAACCCAGTGCCCAC
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AAGGAACGAGCTATTGATATTGATACTCANAACGTCAGCGATGAATACTATAAACATCCT
GCTGTCTGAATACAGCCAGATCAGAAGAAGGCCTACTGTAGAGTCCATTTGTAGAAAGTT
CTGTAAAAACCAAATTCAGATGACAGAACTAAGAGCACTTGTATCCCCTGAATGGCGGCA
CGGGCTGGAAA
Sequence 3586
CCCTTAGCGTGGTCGCGGCCGAGGTACATCTGGTCACCAAGTCCTATATTTTTCTCAAAT
GTCTCTTACATTAGTTACTTTCCAAGTTTTACAATCAGAAAAATAGTCTAGATTTTTTTC
ACCACCTAAATATTTTCTGGCTTCCCTTTATCCTTACTTTAATTTATCCACTAAAAAGAC
ACCAGAATTACTCCCCAAATTGGCCATTTTTCTGATTTTTAAAAGGATGGATAGTGTATT
TTGGTGGGAAGGATGAGAAGGTTAAAAAATATTATCTAAAATTAAAATGCAATATTTTGG
AAAGAGAGATCTTTGGTTTAGA
Sequence 3587
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CCACCTNCAGGTTCAAGCGACTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGT
GCACATCACCATGCCTGGCTAATTTTGTATTTTTAGTAGAGATGGGGTTTCTCCATGTTG
ATCAGCCTGGTCTCGAACTCCCAACCTCAGGTGATCTGCCCACCTCGGCCTCCCAAAGTG
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TAATAATTTTGTCTGACACCTAAACTCATAACAAAGATATTTTAAAATGTTAGATTTTCA
CTCACATTAGTATACATTTACAATTTAATGAAATGCAAAAACATAATGCACTACTGATCC
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Sequence 3588
CCCTTAGCGTGGTCGCGGCCGANGTACAAGATAAATAGGATATTACTAGAGTTATAGCCT
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Sequence 3589
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CCACAATGAGAACATTTGACTTAACTGTGGTATCTTATTTAAAGAAAATCAAGCTTGGAT
TATCATGAAATTGAAGGATCCAAAAGGGAAGCCCCTTCACTTTGATTAGCTCTTCTGACA
AACCTGGATTAGATCTTTTGAAAGTGGAGTATATTAANGCTGATAAGAATGGACCTAGTT

TABLE 1A
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TTCAAACTGCTTTTGGAAAAACTGACAAACAGTTAANGNGGGCCTTTTCATC
Sequence 3590
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CACAGAAGATCAAAAGAAAGAGACAAGGAGAAGCTAAGTGTATTAGTCAGGATTCTCTAA
GGGACAGAACTAATAGAATATATATACACACACAAACACACACACACACACATATATATA
CATATAAATAAAAGGGAGTTTATTA
Sequence 3591
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TTGAGGAAACCTTACTCTCAAAGTGCCTTTTACATAATACTTCAGATTTGTCAATGAATA
TTTCTATGCATCTAGGCATCATGACAATGGAAGTTAAAAATAATGTCCTGGAGACATTTC
AAAACCATTAGGTATCATCTGAATCATCAAGATACAATTATGCTTACTATAGTGTTATCA
TTAAACATTAACATTTACTTTTTTCAAAATCAGTGATCTGTATTGATACATATTTAGTAG
CACTCTATTAATAAGAATATGTAATTAACCACAGCACTCCACTGCTTGACCATATCAAGA
TGTTAGAGAATTTGCTTAAAGAGTTCTGTTTAGCCCCCTACTTCTAACAGCTTCCCGTCT
CTCTACTGAGAGATAAAAGAGTNATAGAAAATAGAGTAATAGAAACTCTTTTATATTCAT
CAAAGCCTTAGGATCATATAAACTCTCGAACTAAAATATCTTCTGAGGGTAAATNAAAA
Sequence 3592
CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGACCCCAAAAATATCAGAACCTATAACAGT
TTTTGTTAACTAGACATCTGGAAAACACCTCACTGAATCTTTACGTGAATATTTTACTTT
AAATTATATTTTAATACCTAAGAACCCAGAACTTCCTCTTGTGAAAAAAACAAGAGAGTT
TGTCACTGAAGATTCTTCAGTTTATATTCCTTGAGGTTTGGACTTAGTTCGTTTTAGTAA
TCATTTCTCCATGCCCATTTCCTTGTTCTTAATCACAAATCTAATCATGTATTTTTATAA
ATATTCAAAATTAAATATATTTATCTACTTATGTAAATACTTTTTAGTTACTGTCTACCA
ATAGCATGTATAGGGATCTCATCAACAAACAGATTTAGAACTTTTTAGATTTGTTCCAGC
AGCTTGTAAATTCATCTTAGACTTAATTGNTTAAATATATCAACATTCTAATCATTTTAA
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ATTTCTTCTCTAGCTGGGATAATAATCAACTTTCTAGAAAGGTCATTTGGAATTCTCTTC
TGGGTAACCCTTAGCATTACAGCAGTCTGGCCAACTTATGCTAATCAANTTTATTGAAGG
GAGAAAGGACCAG
Sequence 3593
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATGTTTCTATATGCCAGTAACAAACTAG
CTAAAATAGAAATCAAGGAAGAAATTCTATTTACAATGGCTACAAAAGTGAAATGCCTAG
GAATAAACTTAACCAAGGATGAGGAAAAAAAAAACCCAAAAGGCCTCTACAATGAAAACC
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Sequence 3594
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GTTCTTTCCATTTTTGTCAGCAATTTTGACTGGAGTCAAATTAAAGTGTGATGGGCAAAC
TTGGTCTGTTGCATTCTATAATTATTGCTGTCAGGATACTTTCAACTACAGATAGGATTG
TTTCTGCATTTATCATTCTCTGTTCCTGCTTATGTATTTGTCAGTGCAGCTGTGATTCAT
TTATTTTACAATACTGCAGCTAATCGTGTATGGGCTATTTGATTAAAAACAACATTTTAA
CAAGACCAAAATAGCCAAGGCAGGGGAAAATGTGGNTATA
Sequence 3595

TABLE 1A
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CCCTTAGCGTGGTCGCGGCCGAGGTACATAAAGTCAATTAGCACTATATTTGCAAACGAT
CAGTGTTAATAAATGTTAGCTTTCTCTCTTATCACATTCTACGAAAAAGAATTAGCAAAT
GGAACTCTTGGGGAAGTGAGCTGTTTTCAGAAGGAAGAGATTTGAGGAGTTTATGATAGG
AATAATAGAATGTAAGGTGAGAAAGGTGGTTCTATTTCATAAAGGGTATTCGTTACCACT
CAGGGTATTTTTGTGCTTTTGTTTTCTGGGTTCTGTGTTTTTGTAATTGTCTTACGTTTG
TATTACATACGCTTTTTCTGTTTTTCTTAAGTAGNAGTAGTATAAAAGCAATGTAATAAA
GATTTTTTTCTTCAGAAAGGACAAATAGGACAGCCATATACATAAGGCATTGGAGTAANG
ANGAAATAGAGGAACAGGAACCCAGTATANAGAATGCCCATAAGCCAAGCAGTGGTGATA
TAGATGAATGGCCAATAAGAAGAATTGAATACATGNGGGCATTTAAGGATTTAANAAANC
CCCTACCTTNGNNTAGCCTAATNGGATTNGCCTGATTTATTTCACCTGAAAAAATTTTAN
TGGGGAAAAAGTTT

Sequence 3596
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATAACTGAAACTGTTAGCTTCATTACAACCT
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TTGCAGAGGTCCAACAAATAAGCCTGAAATAAATGAAGCTATGAGTAAGATTTTGGAAAC
AAGTCCTAAGTAGAGACTTCCTAAACCAAAGAAAACAAAAACACCTCCTTAGTCAATTTT
GTCTACTTTATTCTCCCAGGATATTTTTCTGCTTCTCATGTAAATTTAGTAACATTTAAG
GAATAAAAAGAGAGCTGCCTGGATATATTAGCAGTGTGATTGGTCATATTATTAGAGAGA
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TGCTCTACTGGGCTCCAAACC

Sequence 3597
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CACAAATGGAAGTGATNAAATAAAACACATAGCCTTTTTTCTGGGTTTTTTTTCAATTTT
CAGNANGGAAAAAATTGNTANCTTGNAAAAATATTTGGGTTTTGGATTAAAACAAAAATT
GGGGGGTGGNAGNAAAANANACCTANGGGCCACCTGGGAANNANATTTTTGGTTNAANTT
TTGAA

Sequence 3598
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGANTAATTTAAATTTAAGGTATTTTNCATAG
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TATATCTTCATGGAATATTGANTTTCCCTGAAAACTTTGGGGGAAATCCATTTTTACATT
AAATAGATAAAAGGGGACCCAAAGGTGCCTCATTTAAGGAAGGCTACCTTGCCTTTACTC
TCAAAACCTTCTGGGGCGAAAT

Sequence 3599
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GTTTTATGGCAAAGCTACTAACAGGTGTTTTTAGAAATATGTCAGAGATAAACTTTAACC
AGTGTCTTCTTAGTGGAATTTTAAAAATTTGTTAAGTTCATTGTAGAGAACACCATTCAT
AGACCAAGATGGTCCCCTATTAGCTGATATTTTCATTTATGTAAGATCCTGGACATTCTG
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ACTTTCAAAATAACCATTTCAATGTAATTTGTCTTGAAGAAGTTTACCCAATATCTTTGT
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ATTGCAGTAACCATGGTATCGATGAGACTAATGCAGTGAAACTTTATTACTAATATATAT
AGCCTTATCAAAACAAGCTAAGAAACTTGCTTTAATAATTAAATAATTTAAAAAATATTT
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TTTCTTTGGCCAAAATTAAATCTTTTAAAGAAATAGAGATTAGGTTTTTAATTGGGGGTT
AATTTAA

Sequence 3600
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGCCTGCCTTTCCCTATCTCTTCTAGAATGT
AGGCAGAATTGCATTTTCAAAGTGAAANATGAGCAAATGGAATGGTGCCAGAGGGATTGC

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TGCTTAATCCACATACATTTTTATTTTGTAGGTCACTTGAAGCTTCTTAATTGGTAATCT
CTGCTTTGTTTTGCTTTATTATTTAATTTTTAACTATAGGAGGA
Sequence 3601
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGAT
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CTTNGCAAAATGCTAGGATTACAGGCATGAAATACTTTTTGAATTAATAAATATAGAGTG
TTTTATNACTCATTGANAAGCTTGTTTTTTGTTNGTTTNTGGTCAAANCCCAAATTCTTN
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GCTTATCTGCAAAACCAAAGCAGTTATCATGG
Sequence 3602
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Sequence 3603
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Sequence 3604
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TAGCTTTAA
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ACAAGAAACCTGGGAAAATGGTGAATCAT
Sequence 3606
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Sequence 3607
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Sequence 3608
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Sequence 3609
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Sequence 3610
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Sequence 3611
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Sequence 3612
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AAAAGGGAAAATANAAGGGGGGGAAATTTTAAAAATAAATTGGCCCTTGNAAAGCCAAAA

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TGCCCTTANCACNTTAGTNTTTTTCTTAA

Sequence 3613
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CTGATCATGTGAACACATTTGCATTAAAAGATGTTTCTGCAAATTAGGGGCCCTGAAATT
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Sequence 3614
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CTCAACAATTCTTCTTTTAGTCATTTAAAATTGGTTAATATGGGAAA

Sequence 3615
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Sequence 3616
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Sequence 3617
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AATTTGTGTGGTAAAGGCCTGCTGCTGNCAATGCAATTTGGTGTGTATTAATGGTANGAA
GATCTCCAAGGANTGATGGGTTGTTGAACANCCANTGCAACTGGCTTGTGAATCCTGCAN
NGGCTGGAAACCTGAATAANCCCATGGGNGGATTCTTNTTGTCCTCCAAATTGAGNCNTT
GATGCCAAAAGGNAA

Sequence 3618

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ACGCCGGGCAAGAANCAGTTTTGGCTGGGCCCGGTGGCGGGTGTCTATGGTCGCANGGGC
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GATGGGTTGTTNGAAATGGT

Sequence 3619

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ACCCTTTTNATAGCCTTTTCTTTTTTTAGAATAAAAATGTTTGGAAAACTAGACTCCTGT
TTCTCCAGATTAGAAATGAAATTTGATCCTGTGGTGGCAGTTTTTCTCTCTCTCATCATT
ACATATGTTAGAAATTCTGATAAGGAGATTGTTAGAAGCAGAGATAAAGATTATATAAAA
GAGAGAGGAGACAGAAAAGGAGGTGAAAATGTAATCTCACAATTCCCT

Sequence 3620

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTCTTTCATCTTTTCTGTTTGCAATTTTGCA
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TGAGTAGTTGCCTGAGGCAGGAGATGTGGGTGGCTGATGGCAAAAGAGCACAAAGGAACT
TTCTAGAGTGATGGAATGTTTTATGTCCTGATTGGGGTGCTAACTGCATGGACAGACACA
TTTGCCAAAATTCATCCAACTATACATAAAACGTGTGCCTCATATTGTATATAAATTATA
CATCAAACATCAACTTGGTTTGGTTTTTAAA

Sequence 3621

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Sequence 3622

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CTCTGATGTC

Sequence 3623

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TABLE 1A
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NCNTTCCCTCTTTACAAAATCCTTTTTTTACCTTCCCCGNCCNGCCCCTTCNAAAAGGCC
AA

Sequence 3624
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TTGATTTTGANGGACATTNAATATGAAAAACNCAAAAGCCNTAAAAATGGATNCCAATAT
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CCAGAAGGGGAANTAATTTTTTTTAA

Sequence 3625
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GCTAGAGCCCTTTAAGCCAAATTGTTACTCTATTATCCTACACATTTCCTCATAAATAAG
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AAGCTCT

Sequence 3626
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ANTTTTGGNTTCCTT

Sequence 3627
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Sequence 3628
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Sequence 3629
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ATTTCCCAGAATGNGGCTGTTTTCATTTGATCGTTACAAAGAGTGGTTGTTTAACTTTGG
TGTTAATGTCATTTATTNGACATTTCAAACTGTCTTTTTCAAAC
Sequence 3630
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TGCCTTCTATTTTTGCTGCAATCCTAGT
Sequence 3631
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Sequence 3632
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Sequence 3633
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GCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGNAAGTGAAGGAGCACAGGAC
CGNTGTTTTGGATTTCATT
Sequence 3634
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AATTCCTGTCAGATTTCTTAACCTGGTGGGCTATACCAAACCCAAAAAGTTTAAGCAGCC
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CCCAAAAATTTATGCATTGTGGCCCTAACC
Sequence 3635
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Sequence 3636
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Sequence 3637
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Sequence 3638
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Sequence 3639
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CAAAGAGCACTGGTTTTTAATTTTGATAAAGATTATGTCTTTTTTCTTTTATGGTTTTAA
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GTTACAAATGAATTAATATAAAGGGTACCT
Sequence 3640
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TTCATGGGCAGGAGGTGAGAGATGAAGAAAAT
Sequence 3641
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GACACTTTTGTGATCCAGACATTGGAGACTGTGCTGAATGCAAGGGTGCCCCAAGCCATG
GTCTTTTGGCTACCAGATGAAGATCGGGCTAATGTCCAACGACGGGCACCTGGAATGCGC
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TCAAGATCTGCCACTATTGGATATCA
Sequence 3642
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Sequence 3643
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GGTGGGGGTTTTTTGGA
Sequence 3644
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AACAGGTTTTTA
Sequence 3645
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TCTGAAATGATATCAGTATACAGGTATTTCTTAAGAAGTATTCATGAGATCAACACCACA
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GACGCTGGAATGGCCCTGTAGATTGTCACCACTTGGGGCAAGGG
Sequence 3646
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CAGTTGTGAAATCTCCCTAACGGTATTCGGGATTCAGACTAAAATTTCCC
Sequence 3647
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Sequence 3649
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TCCTCAGAATACATAACACCTG
Sequence 3650
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C

Sequence 3651
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ACACTACTCTCTTATGCAGAGGTAAGAATGAGGTAGATTGATGTGTACCTTCCCNCNNNN
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TTNGGGT

Sequence 3652
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Sequence 3653
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TTCCCTAAAATTCTTGCTGTCTTACAATATGTCACATGCTTCCACACACAAGGATTTGCA
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AGGA

Sequence 3654
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Sequence 3655
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TTAGCTGTGATATTTGTGGAAAACTGTTTGCTCGAAGAGAACATGTAAAAAGACATTCCC
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Sequence 3656
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Sequence 3657
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Sequence 3658
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Sequence 3659
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Sequence 3660
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TCTTTCTGCTTATTTATAAAGCATACTGCTTATTGTCCATTAAAAC
Sequence 3661

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CAGTCTGGAATGTTCTGGACTTTN

Sequence 3662

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GAGAGGAGACAGAAAAGGAGGTGAAATGTAATCTCACAATTCCCTGCACCACTTATTTAT
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CTCCCATAGGGGCAAAGGTAGCTTACCATTTCTTGGAAAATAAAGAAAAAATGAATTTTT
CTTTACCAAAATTTAAACACCATTAGGGGATAGAGGTTAAAAATTA

Sequence 3663

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ACCAGNAACCAAACCACTNGGAAACCAGTGCTTGTTAAATNGGAAAGAAAGAAATTTGAG
AAAGTGATATAAAATAAAAANATAGGATGAATTAATAAGATATGATTTAAAATACCAAGT
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TTTAGTTTTACAC

Sequence 3664

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Sequence 3665

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TTATGGAACATCATTTATCTATCATACGTGATGTTAATTCTTGACTATAAATCGCTCAAA
AGTAGGAGCCCATGTCTTAATCACATTTGATT

Sequence 3666

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Sequence 3667

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TABLE 1A
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TGAATATTCTGTGTAATTATTNGCTCCTTTTTGC
Sequence 3668
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TTNCTAACAGAAGTGGTTTCTATGTGCACAACCTTAAGAGAAAACATCAGGAACCTGATT
AAAAACTATCCTCATCACCGCAAACTCCCTATTTATAGAAGACTTACCTACTGAATGATC
TCCGATTAGTCCTTTAACAATTCAGATCCTAAATCTAAAGGCTAAAAGAGAATCATTTAG
GGCATTTCAAAGGTAGAAATCTTCTGGTGTTATATACTATTCTCAGGGACCGAGCAATCA
GCAGCTATACTAAAACTGGAAAACTCGTGACTTTATTTATTTATTNATTNTATTTCTATA
TAGAGATAGGGGTCCCATCATGTTGCTCAGGCTAGTCTCAAACTCCTGGGCTCAAGCCAT
CTTCCTCCTGC
Sequence 3669
TTTAGGGACGAATTGGGGCCCTCTTAGAATGCATNGCTCCGAGCCGGGCCCGCCAGTGGT
GGATGGGGATATCTTGCAGAAATTCGCCCTTTTCGAGTCGNGCCCGCCCCGGGGCCAGGG
TACCGCGGGGGGGAGGGGCNAATTTGNAGGGCAAGCCCAAGCCGCCAAGGGGGGGCCTTT
CTTGGCNTNGAAGAGGGGGGGCAANGGCCGNGGAAGNCTTTGGAAGGGGAAAAACCCCGC
AANAAATAAAAGGTTTTTTTTTTCCTCNTTTTTGGAAAAAAGGGATTNAGGAAGGGAATT
TAAAATAACCCAAACCCTTACCCTNTTANAAAAAAAAAAAATAATTAAGGGTTCCANAAA
TTAAGGGGGGGGTTAACCCTTAAAAAGNAATAAATTTTTNGGCCTTTAAAAACCGGGTNT
NAAAAAGGTTTTTTTTTTAAAACCGGNNCAAAAATTTTTNTTTAAAAATNAAGGCCCTTT
TNAAAAGGNAANTTTTTNTAAANGGGGAAGGAAAAAAAAANTAATTNGGNAAANGGAAAC
CTTTTANGTNAAAAAAGNAAAGTTTACCCCCACTTGAAAGGGGGGGAAAAGGGGGNAAAAA
AAAGGNAAATTAAAAAA
Sequence 3670
CCCTTAGCGTGGTCGCGGCCCGAGGTACTTATTTCATAACCAAGTAATACCAATATTCTC
TAAGCATCATATAGTTCCAAACTGTAATCTAAAAAATTAATCTAACTGAATGATGCAGTG
TTTGATCATGATTTCCTTTAGTCCTTTAAACTTACGAGTCTTGCTCTTTAATATCTTCAA
CCTCGTTCAGAGTGACTACCAAAAAGTATATGACTAAGTGCCACATAAAATAATCTTGAG
TCTCATTTTAATAGAGAATAAATCTGCCAGAAATTTTGGTGAATTATATACTAAATAATA
AAAGGTAAATATATGATCTTCCATTTAACTCATTTTTTATAAAGTGAGCCAGTTCTATTT
TTTTTAATCCTTAACCAGGAGAGTATGAATCACCCACATTTNCAAACTTGGAATACTTAG
AGAATATGTTTTTAATAACTATATTTAAAATTGGATTTTTTC
Sequence 3671
CCCTTAGCCGTGGTCGCGGCCGAGGTACCACCTTGAGCCTGGCATTTAACCTCTGTGGGC
CTCAGTCTCTGCACCTATAAAAGGAGGGATTTGGGCGAGATATGCTGAGGACACTAACAT
TCTACACGTCTAAACTTCGAGGAACTTTTCTAAAGCAAGAAAAAGAATAAGGGCTAAATT
TAATTCGTCAGAGTGGAAAGAGAACAAAGAGAGAGGACTGGGAGTGGGAGATTAAAAGGC
TGTGGAAAGTGGTCTTGAGATAGATGTTATTGGGGACCAACCTTCTCAATGCACTGGTCA
AGCGCCCGGACGTTGTTGAGAACAGC
Sequence 3672
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTCTTAGAATTGTATTCATAATGA
AGTCAATTCAGGCAGGCACAGTTTCAATGATATTATGAGCTTCATCTTAATAGCTTTTTC
CAAAAGTTTTCTGATATAGGTTTGCCATGTTCCATTTAAACCCAGCTGTGGAATTCATTA
TTGTGTGCTAAATTCATTTGGCCACTGACTTTTTGAAAAGGAGAAAATCAGGTTTTTTAT
ACACACATACCCACATAAGAGTATACACTTTAATCAGTCTTTTTTTCTTAAAAGTTCAGT
TATTTGCTGAAAAAGGAAATATACTGCTTAAAAAAGGAAAATATATTCAAATAAGGCAAA
TATGATTNGGAAATAAT
Sequence 3673
CCCTTAGCGTGGTCGCGGCCGAGGTACACTTCAAACCACAGCAGCCTTGGTGAATTGTTT

TABLE 1A
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AGCATTTGAAGGCTTGATCTTTTGTGCCGTCTACTGGACAATAGAAAAACTGCAGCCTTG
ATGACAAACTTTAATCTTGTTTTACGGGGGTGGGAGGTGGTGGTTGGGGGTATGATTTGG
TGCTGGTAA
Sequence 3674
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGATACCTACTAGTGCTTACTCATTAGCATA
CAGAAGACAATACTTGAGGGCTGTAGCAAAATAACTGAGAGGATTTTGAAATGGGCAGGG
GTCCTGCAGTAGGATAGGGGGTGAAACTCAGCAAAATGTCAGGTTATCTGCTGCTAACAT
AACCCCATCTGTAACCTCCAAGGTCCTTGGGCCTTTCAGGAACATGTTTTTCACATTTCA
TAGACCACTGTAAATCTAAATAGCTAATACAACAGCTAAAGATCTTAAAGCAATTTGGAG
ACATTCATATAGTAAATTCCCT
Sequence 3675
CCCTTAGCGTGGTCGCGGCCCGAGGTACAATTCTTTCATCTTTTCTGTTTGCAATTTTGC
ATAATAAAATGCTAAAGGGAAAACATTTGATGAGCAGAGTATCAAACACAAGAGTAATAA
TACTACTACTTACATGAAATTCTAAAACAAAGAAAACTCATCTATGATGTCAAAAATCAG
ATGAGTAGTTGCCTGAGGCAGGAGATGTGGGTGGCTGATGGCAAAAGAGCACAAAGGAAC
TTTCTAGAGTGATGGAATGTTTTATGTCCTGATTGGGGTGCTAACTGCATGGACAGACAC
ATTTGCCAAAATTCATCCAACTATACATAAAACGTGTGCCTCATATTGTATATAAATTAT
ACATCAAACATCAACTTGGTTGGTTTTTAAAATAAGTTCACTATATAAAATCTGGAATAC
ACAGAAAAAGCAAAGAGAAATTAAGTCCCAATCCCATCACCCCAATAAAATCACCAACCT
TTCCTTNTCTTGACANTGACCACGCCTACTGGAGATAAAAAATATACTTTANATGGTTTT
CCTTAGAAGGAAATCAGAAATAGGNGACTTCCTAAATTTTGGAATTCTTTGCTCAGGCAC
TCAAAATGCATTGATTTAAATCTNCACATCCCATCACTGCTGNGACTCATTAGCAAATTA
TTAATCATTCTGNGCCTGAATTTCCTCATNTGAAAAATGA
Sequence 3676
CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGAAACAGGCTGGAGGACTATGGTCCTCAAG
TTTAGACCAAGAGGACTATGGTCTCAAGGTTCACCATGAGAAATGTGTTGAACATTTTAG
TATGCTCTATTGTATAATTTTTTTGGAGGGGGGGGATGGAGTTTCGCTGTTGTTGCCCANG
CTGGAGTGCAATAGCACGATCTTGGCTCACCGCAACCTCTGCCTACCGGGTTCAAGTGAT
TCTTGTGCCTCANCCTCCTGAGTAGCTGGGATTATAGGCATGCACCACCATGCCCAGNTA
ATTTTGTATTTTTATTANAGACAGGGTTTCTTCCNTGTTGGTCAGGCTGGTCTCAAACTC
CTGACCTCAGGTGATCTGCCTGTNTTGGCCTNCGGCGTTAACACTTTTTAAGACCAGTGT
NACAGAANAGAGAATGTAC
Sequence 3677
CCCTTAGCGTGGTCGCGGCCGAGGTACAACAAGTATACGCATCACTTTCCTTAAGATTAC
CCCTAAGACTAGGTAAGAATACAAGGAGGAGATCAGACATGCTCTAAATACATTTGAATA
AGTTGCATAAATATGTTTGAATAAGTTACTCAATTTAAAAATTAGACTGTTTACACTAAA
TATAAGATCTCTAACTTCTTTCAAAAAATCAGAAGGTCTAGCAACACTAAGTCTATATTT
CAGCTGGCTGATCATGAGCATTAACCAAGCAGCAGTCTCTCCCCTTAAGTCTGTGTGCTC
AAGGCCATTACTGCCCCCACTTAGTCTCTTACCCATTTCCACTCCATGCCTCGCCCCTGT
AGTCACCTAAGTTTGCAAACCTTGAATTAAAAGATGATCATTTATTTCTACAGTAAATAT
ATCAAGAGGGCTTTA
Sequence 3678
CCCTTAGCGTGGTCGCGGCCGAGGTACTTATTGCCACTGGCCGCCACTTTGACTTATTTT
CTCTAATAGTTTATTTGCCACAGTCTTTATTTTGAATATGCTCCTAGTTTTTTTTTAGGG
TGCTGTTCATTATGAAGGCTTCTTTATAGAGGCCTAATAAGAATGCCTTTTTATAAAGCC
TGTGCATTTAGGTAGGTTGAAGCTAGGAGGATTTTCTTTAGAATGCTCTTTTGCATGTAA
AGCACAAAGTATGTTTCAGTTTAAATGCACTTCTTCCGGTTAATTTTTATGGGGAAGACA
AGTGAGTCAC
Sequence 3679
CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTCACTCTGAATAAAAAAAAAAAAGAAAA
TNCTCTTTGGGAATCGTGCTGCCCCCTGGTGATGAATGGAATAATAAAATAGAACCTTTA

TABLE 1A
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AATAAGTTTACTAATAACATATTGTTCATTAATAAATGCAAAATTTAACACAAAGTCTGC
ACAAAAGGTAATTCAATAAAAAGTGTGCATCCACAACTTAGTCATCTGATATTACAGTGA
TTATTAGGGCCAATCTTAGAAATGGAAAGATGGAGAAAGAAGGATNAATCACAGAAAAGG
GCCACAGGCTTGAGAAAAATAAGGATTCCAACTCCCCACAATTGCAAATATGAAGAAACT
TTATGTTACCTCAGTTTANAAAGCCAGTTTCTTCACGGGGGGTTAATGGTAGGCTTCAGA
TAATGACAGCCAAAACAAAAACTTTACAATGGTTTCTCAAACTAACAAAATTTTGGATTT
TAT

Sequence 3680
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATGATGTGAGGTGTAAGGCTTATGAC
TTCATTATGAGAAGGATGAAGACTTGAATAAGATTTGGCACATTTAGGACAACTAGTCTA
ACTGCAAGTGAAAAACGGACTGTAGGTAACCAATGGTGAAGGACGATCATGATTTGAACT
AAAATGGTATCAACGGACATAGTAAGGAGTTGAGAAATAAAGAGGAAGTAGTAATTGATT
CTGGATATGTTTTGAGAGTAAAACAACATAATTTCCTGAGAGTTTGGATCTAGAGTGCAA
CAAAAGTAGAGTCAAAAACAATTAACTTTTTGGTTTCAACTACTTGTTGAATGGTAATGC
CACTAAATAAGACAAACAACTCTGAAGGATGAAAAATTTGAGAGAAAA

Sequence 3681
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTTTCTCCACAGAGCAACAAAGACACCTATA
CAAAGTCATAGGAGATCAAGGTCAATAACTAATTTTAACACATATTCATTCACAGATATG
AATTGAGAACAAATAGCACCCAGAAATTTCAAGAAGTGAAGAACAAATGTAGAGAAGCAT
AATGATANCGAATAGAAAAAAAAAAGATGCCCCAAAAAACAGAACTCAAGGAACAGAAAA
TTGTATTTTGGAGTTTCCTTAGAAGATTCCAGAACATTCTGCAGTAAATAAAACAAGATC
AAGCTTTNTGTTTTAAAAAAATTTTCAGAAGAATTAGAAAATGTTACTGGAAAGGAAAAC
CATTTAAAAAGGTGTTNGAAAATAAAAGAAAAAAAGGTCTCAAAAAGATAGAGCCAAAAA
GTCAAAAAAATGGAGAAAACTCTGAGAGGAACNTCCAAGAGGAAACNTCGAGATAGAGAG
GCTTGAATTNCATCATGGTGACTTATGCGAACTTTTGGAAAGATCCGAAAAAATTTGAGG
CCCGGAAACTTGTCCAAAAAACTTATTGGCNTTTTTTTCCCACATTTGGCCACCCNATTT
TCAAATTGGGGGGAACCCGGCCAGGTTNCTNGAATGGTNGGAGGAAGTNCTNTTTTTTAA
CCCCNTTCNTGAAATTTTNGAACCTTTAAGATTCCAAGGTTGGCTTTAAAGGGGNTTGGG
GGAAAAAAAAAA

Sequence 3682
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGACAAAAGTGGAAAACAAACCAGGAAAAAA
AAATTGTGAAGCACAGAGCTGCTTAAAAGAATAAAGTCACAGAAATAAGTCAGTATTTTG
TTTAGAGACTAGAACTCCAACTGCTAGCCAACTGCCTAGAATATAGTAAATATTTTCTAG
TTTCTTAAATGACTAGTAATATTCCTACATTATGTGATGGCATTTCCCAAACTGTTTAAT
TAGATGTTAGATTTGTAGCCAAATATGTCTAGGAAATGCTTAAACAATATAAAACAGTTT
TAATGATTGGCTTTTTAGAACGTTATATATTAATGTGCTTTATGCATATCCAAGAGGTGA
GTGAGGTATTTGGGGTTTTTCAGACTTACTTGATTACAGATCTGGAGTATCTCAAAACAG
TTGTTTTGTGGAAAACACTCTGGCAAACTCTGAGTCTTAATCATTAAAAATAGGTTTTTG
GGGTAAACAACAGGNGTNATAGAAATGGAAAATTACTGATTCACATTGAGCCATGAAGAA
TTTATTNTCAAGCAATTTTTATAGAAGTTGCTTTATGACAAANAAGCTTTNGTTAACTGG
CATTTGGCATTTTCATGC

Sequence 3683
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATCTATGGAAANCNGNTTATTTTTACT
NNATNGGGAGATTTANTTTTTTANTTAAACATTGCTCTGNGTTTATTTTCCATATTCCAT
CAGTGAGTAAATTTTAGTTTAGAATTACAGCTTTACCCAGGGTTTATGTCATCAAGTTCC
CTTCAAGTAGATTACTTGCAAGGAAATCTTACTTTGATATTTCCTAAATATTAAGCAATT
GATATAAAAGTTTGACTTAATTACTTGATTTATAGAATTACTTGGTCTATAAGGTTAATT
ATTTGGTCATATTGAATAAATCAGATTTTTTATATTCTTTGGAGATACGTGCTACATCCT
TTTGTTAAAAAGTCTTTTTAGTGATACTAATTCTGTGTTCAGTGTGTGAAAAGTAAAATA
CCACAATTTTAAAAGTCTAATTATTTTTAATTTGGTTAATGACAGAGATATAGATCAGCT
ATCAGGAAGGGGACTTCTGCCATTCAA

TABLE 1A
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Sequence 3684
CCCTTTCGAGCGGGCCGCCCGGGCTGGTACAAAGAGGCANAAGTAGGACTCCTGCTCAGT
CAGCCTCAGCCTNTCTCNTCTGGATNCACCACCAGACTTAGAAAGCTTGCANCTTACATA
CCACCTGGTGAAAGTTNCCTTTTCTNATCTTCCATTTCTCTCATTTTCATNAAGNGCTAA
TCTGTCTGTTGTATGGTATATAGCTCTGAAGTAGTTCCAGCAAGACANTATGATCAAGCT
TCNTTTAAATAAATCATGATCTNTTTCTCTCTCTGCAAAGCAGCAACAGCTGTCAAAGGT
AGAACTGAANCCAAGGCAGCACCAATGGAGCANGCTGNTAATGAAAATATGACAAGAATN
TTTGAAACTAGAANCCTCAAGCCACAACTTTGTTAGGTTTTCCTGCACTCTCCCCTNGGG
GGGCATTATTCAGAGGTACTNTANTACGTTCNTANNAATTTNCTTTTTGGG
Sequence 3685
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCTGACTCCCTAATTTGTTCCTACAGATTTT
AATTTTGACATGGATGGCTTAGGGAGAAAGCAGAAAGGAAGGAAAAAGAGAAGAAAACAG
AAAGGAAGAAAGGAAGGAGGGGAGCCCTGGTAGAAATTTCATTTTGTCCAGGGCAACTTG
GGGACTTACAAAGGAAAGACGAGAGAGCAGAGGCAGAGAGAGGAAATGGAGCAAGAAGTG
TGAAAATAAAAGGAGAAACAAAGAAAAGAGGAAAAAGTATGAAAAATAAGTTGTAACATT
TCTCTGGAGCTTTTTGTTTCAGAAGTGACCACAGAAGGAGGATGGAGATACTAAGAAAAA
GTTAACAGGAGAAACAGTAATGAAGAGGAAAATC
Sequence 3686
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGTTAAGGAAGAGTATTGTTGAAGATACAC
TTAGTTTTGTAAGATATATTAATTTGATCACTTGCACCGTGTAGTTGAATTATTGCAAAG
AATTGTCCAGTATAGAAATGGCTTCCAGAGACACTGCAATCTCTACTGTGCTGATTCACA
CTGCATCATATGATATANGAGGTTGTATCTTAATTTAGCATGGTCCTACTGGATTTGCTT
TTTATTACTAAATTACTAAATAACCTTAGAGACTAAAGACAATACAGCATTGTGAGATAA
TTAGGGGGGTATTGTCTTTTAGCCTCTAGGGGTTGTGGTAAATCTGGGCATCGTCTCACT
GGATTCTCGACTCAGGGATCTCATAAGGCTAAACTCAAGGTGTTGGG
Sequence 3687
CCCTTAGCGTGGTCGCGGCCGAGGTACTATTATCTCTCTAATGAATCACATGTATAACGA
TTCAAATACTGTGTTTGAAATGCAAAGTCATTTTAACCGCTCAAACTAGGAAACTGGCAT
AATTATGGTCACAAACTTATCCTACGTGCCTAAGCTTATGAACCAGCAAATGAACATACC
ACCAAATATTCGCTTACCTGGTCAAAAACTACTACTGCACTCATTAGAAACTTTTAGGAT
ATCAAAATCATAAAACCGTTCCAGGACTATAGTTTTATTTGCNAAGCAAACTATTCAATG
TGTTTTGAAACAAGCAGTCTTCTGAC
Sequence 3688
CCCTTAGCGTGNTCGCGGCCGAGGTACTGAGCCTGTGTGTCAGGTAATGTGGTTAACTTA
ACATTCATTACAGCATGTCATCACCACAAAGGCCTCTTGTGGCTGGTGCTATTTTTTTTC
CATTTTGCCGACAAGGTTTAGAGAGATTGAATCACCTGCTTAGACCCACACACCCAGTAA
GTGTTGGAATCTGGATTGATGCTGTAATGACCATTATCCAGATCCTTATCACCGTTTGGG
GAAATTGTCTGAAAATCCCTCTGGGTTTATTTAGAGTCAAGCTTTCATCTGGGTCTTCAG
AAAGTTGTAGTGGAAGCCATCTGGNACCACCACACACCTGAAAGACATTTTTAGGGACTT
AACCTGGATTGAAAAAG
Sequence 3689
CCCTTAGCGTGGTCGCGGCCGAGGTACTAATGACTTAGGAACTTCCTTCTCCATCAATCT
GTCTTCCATGTTCAAGTTTTATGAATTTCCATTCCTGTATTCTTGAATGGAAACATTTCT
GTCTTAGAAATTCCACTCTTCCGGTGTTTACAACACCATTTTGAATGGTGTTTCTCCATC
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TATAAATGAGTATGTGTTAAATGAATGAGAAGGAAGTGGCTTAATGGTCTATAGGAGAAC
CGTAAGTTTTCTTTTGAGGTAACCG
Sequence 3690
CCCTTAGCGTGGTCGCGGCCGAGGTACATCACTCAGATCCTATAACTGAGTTTTCAGAAA
AACTGTTTGGGATCTATGGTATCATGAATTAATTTTGTTATGAGGGAAGCTATCTTTTGT
GTGCCCCTGTAAGGACCGGACTACCATGTCCCACATTTTTCCTCCCAAAGTTGAAAAAAT

TABLE 1A
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CTCCAAATCTCTGATTTACACATTTTGGGACCCATCAAAGTGGTAACTATCTGTGTTCAG
ATTTCACAGTCTTTAGGGGCTGGTGACAGAGATGAAGCAAGCAGCAGTGCAGATAAACAT
GGGAGTGGAATGTGACACACACCTAGCTCCCAAAAAATAATTAGGGAAAGATGATTCTTG
CACGATAGAAAGGCTGACCCTT
Sequence 3691
CCCTTAGCGTGGTCGCGGCCGAGGTACAATGCCAGAAGTATTTTTTTTCTTTCAGCTGTG
AACCAGCCTGTTTTGTTTGACAAGCCTTTCCAGATTCATGCAGCTCAATCACGTGCTTGT
TGCCAAGTTNGAGAGTGAAACNTATTATTTCAAACTTGTTGCCGNGACCAATTTTTTACA
AAACTGAAAGTAGCACTGTGAGGTGGATTGGACCTAGTGATGAGGTGTCTACACTTGCAT
CCTTTTCTTCCAAGAAGAATATTCTGACACTNCAACTCTANAAGTCATGTCATTAGTAAA
AATGAAAAATAAT
Sequence 3692
CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTTGGAGAGAAATTATGTGAAACTCTGGCCT
CTTCCACACCAGTCTGGTTGGAGAAAGATTTCAGGAAAGGATTAGGGAGCTGGAATCATG
ACATAGTATAGCAAAGGTGCATAACGTCTGCTAATGTTACAGCACATTAAATGAAGTTGT
AAAATAGTAGCTTAAAGTTAGGCAGGCCAAACATAACACAAGAAGTATGAAAAGCAAGGT
GCCATTTTTCCAACAAATAAGTTCATTATATGAAGACCCAGCTTTGGTTGATTTAGCATC
TTGGTATCCAATGCAGCTGCTGTGACTTTCTTTTCTTTCTTTCTTTTTGTTTTTTTTGTG
TTTTGTTTTTGNTTTTGTTTTTGNNTTTTGGTAAGCCATCTTTTAAAGACCTNACACCAG
TAAGTATGCATTCCAGTTTAATTAATCATACCTATTTTCTTACTGGAATNCCTTTTTATT
ATGCCCAGGGCAATCCCACAAATANTGAATTTCTTTAATCCTGGCCACTAGTTCTACCAA
GGGNGGGAACCTTGCTTCATTTTTACCGANGAAAGGAAACCTAACCATTNCCAAGGGGGG
G
Sequence 3693
CCCTTAGCGGCCGCCCGGGCAGGCACTATATTATTTATGCAGTATGGTAAAATGTCACTT
TGCCTCAAGGTGACCTTTGAAGTTATAGGGAGCCTATGTTTTGATTAAAATACATTGTGT
GGGGTGTTAAGCACTTTTAGTGTATAAGGGAAGATGAAGGATTTCACAGGGCAAGTGGGT
GGCTGTAAATTTTTACATAGAGATCAAGATTTGTTTTTTAGCATGAGCAGAATCCACGTG
GTATTTGGAGAAGAATTGTGTAGACTTATGCTATGTTATGGCTTTTTTTTTAAGAAAATG
CAGAACAAGGCAAAGCGAACAAGAAAAAAA
Sequence 3694
CCCTTTCGAGCGGCCGCGGGCAGGTACTCTTCCTGATGGAAACTATAGAAAAATATCATG
TCCTTCTATTTTAACATGTTTTATCAAAATCAAAATAGTTACCAAAATCTCAAAGCATTT
TGTTTCTTAGTATCAAAATCCATGGAAAAGGGGAGAAATCAACATTAAGGGATAATTTGA
ACCTATATATAATGTTTCCTTAACAATTAAATGTTATTACCATGCAATAGTGCAATCAAT
TCTAGGAAAACACCTCCAGGAAATATATTAACCTCTGAACTAATGTTAAAGAAGCTCCCA
TGAGAGTATGTTTTCACAAATGAGCTTTCTGTTGACCTTTTTGTAAAACTTCATATAACG
TATTTCAGTTAAACCTATGATGCCTTTAGTGTTATCTCTTTCCTAGAAATGAGATGTTTG
GTTATTTTATGTCTGTGTGTGTGTATGTGTGGCTGNGATAGCACTGGTATTTATAGTTTC
CCTGCTAAATTACCGTATTTCTGAACCTTGGTAAACTGAACAGAATTGGAACGTTTGGGT
CCCC
Sequence 3695
CCCTTAGCGTGGTCGCGGCCCGAGGTACCAGATACTTGAAGGACCCACTGACCTGGAAAA
AAGTGGGATCTAGTTTCAGCTTGAAAAAATCCTTCTTCATAATTACATTTCCCTTAGGCA
AATCTCTAACATGCCTAGGCTTTTGTATATCTGTTTTTACTGCGTCACAAACCTCCCCCA
AAGAGAAGGGAGACGATAACTGGAGAAAACCACAAATTAATCTTCCAATATTTTTTTCTT
CCATATAATCAAGCAGTGCCTCAGAATCAAAGCAGTCTCTAAAAATATTTTGAAGAAATT
TATTTTCTTGGATCTTCAAAGATCCAAAGTTACTGAGATGCAAAGAATCTTCCACAGTAT
CATCCAAGGATACTGAAGGGCTCCTTCAAACCTCGCCCTTGTATATTTCTTCTTCCAGTT
GTGATACTGCAGTTACATTTGCAAACCAAATGATCCCTTTGGGTGGG
Sequence 3696

TABLE 1A

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CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATTTCTTTCTTTGACATGGCTCCTCA
GAATGCATAGAGATTTGGAGCTGTGTTGTCTACACTGGATGTGTGAGAGTGATTGGTAAT
CTGGAGGCTGACTACACTTCAGGCCTGCCCCGTGGTGGAGTCACTGACTTCCACCTTCTG
GCTGCAACCTGCCCAAGCCCATCCTGAGTCCTAGGCTGTGTTTACTTAGATAGGTCCCTT
CTCTGACTGACGAACATCAAGTCCTTGTGATTGTTCATTTTTTTCACTTTANCTTGTTTG
TTTTCAAGTCATCCAAGTCANAAAAGTGTCAAAAAGAAACC

Sequence 3697

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTTCTGTCATTTTTTGTTAATTTTACT
TCCAGGAAGTCAGGGCTGTGATTTGAGGCTTTTTTCTCTAAGCTTCTGTGATGGAGATGA
ATTTATTAAAGTGGGGCCATAATGTCTTTTTGAGCAACATTAAAACTGAGCCATCAGAAT
TAGGAAGTATCAGAAGTCAAGATCAATTTTCAAGAACAGGAGCATAAAATTCGAACTCAA
TCTGTGTTAACATTAAGAGATTTAGAAGCTCATTCAGACTGATAACTAATGAATAATATA
GCTTTCATTTGTTGGAGACTTTATGTGAGCCAGCCAGTTATACATGTTATTTATAATCCC
CACAGTAACACTGCAAGGTAGTTATCAACTCTATTTTGCAGTTGAGGAAATTGAGGCTAA
GAAATATGCCATTTAACTTTTGCTGCATAACAAACTACCCCAAAAGCTAATGGGTTTAAA
ACAATATGCATCTTTTGTGTCTCANCATTTTGAGGTCCCCAGTGAGTAGCTCTTCTGGTC
TGGGATTAGTTCAACTATCTGCAGTCTGCTAAACATAATCTGGGTGCTAGGATGATCTAC
AATGGCCTTTACCCCCCTTAAGTAAATCTAAGTTGGATGGGNA

Sequence 3698

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCGCTGAACTGTGTTCACTAATAACCACTGG
GGAATGATTATTCCCCAATGTCTTTCTAATGTCTTAGAATTCGTGACCTAGGGTTTGCCA
ACCTGAGGGCCCATAGCGGCCAGTTCAGGATGTCGGGGACTGCAGTAAACCAGAGGATTT
ATCCGGTGGTCGCTCCTTATTTTGGCCAGCAGGGCCGTCTGGAAATGACAGTTCAGTGTT
GCCAAATCTTCTACCAGTTTTGAAACACTGACGATATGGTTTGGCTCTGTGTCCCCATCC
AA

Sequence 3699

CCCTTAGCGTGGTCGCGGCCGAGGTACTTATCATTACAAGTAAGAATTTCTGATGGCTAC
ACGTCATTCTATTATGCTTACAGATGAGAAAGCTCTATTATTTGAACTGTAAGAGTCTTT
TCAACCTCCAAATAAAGCCCCTTCCAAAAAACCCCACCAAACCCTTCACTATAAGAAAGA
TAATAAATTATTGCTTAGACTAATCTATATGCAAAGTATAAAAGTGCTGCATCAAGCTGC
AGCCCATGGCAGCATGGAAACCACAGGTAGGNGGACATTTTAGAAATGAAATGGCNATCC
ACTTAACTTTGGATTGATTGCACANAATAACCTCTTTCTCTCTCTCTGNTTAAATCTACC
TCCCGTTTATCTCTTAGGTTTTCCTAGACCAAAAATCAAGATGTTGGGCTTTAAATCTAN
TAAAATAAACTTAACGGTTTTTATTCNAAAANGGACTCTGGGGTGGTTNAAGAATGGAAA
TGGGCCTTCNAGAAAATTTTTNTTCCACCNNTTTCCCCCNCCCATNAAGGTNAACCTGGA
AAAATTANCATGCCCCACNTTTCANGCTGGCATTGTGCCTGNCACCTCCACCTACTTGNC
NGCCCAACTGGCCAGGTTTTTANNATTCANCCTTTGCTGGGATTTGGGACCTGACAAGGG
NNGNAAAAACCAGAANTTTCANNGCNCNTCAAAATANAAAATTGGGCTGGGGGGCCCNCC
CTTTNTTTTTTTTTTTTT

Sequence 3700

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAATTCTTAAGTATTCCTGATAGGCCACTGC
CTTCAGCCTAGAACTTGAGAGGACCCAGTTCTTAGCATGCCCATCTAGGAACACACTGAA
TCACACATTTTGGCATACCTCCTTTATTACCATGAGATGTAGGGTTTGCTTTCATGAAGA
AAACAAAAGAGTAAACAATCCTGGATCTGAACTGATAGCACTTTATAAATAAAAGCATTT
TACATCAATAAAAGATTTTTATTATTTCAATACCAGAGGTTTCAAAAAGCCCACCATGTA
TCCAAATAAGGTGTCTTTATTTCCCCCCTTTCACTCATAAGTCATCTCAGTTTATCAGTT
TGCAGGAATGTAAGCTTCACACACAAAATTCCAGTCTGGGAAGAAGAATGCTGCTTATTA
CAGGGTTTTATGCCACATGACTCATTGGGATTTCCTGACGGCCTTTGCCTTACTATACCA
AATTGACCCTGGAGCTCCTAATGGTGATTCCCAGCTGCATCAATTTTGAGATTTACATTG
CCCCT

Sequence 3701

TABLE 1A
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CCCTTGTGGTCGCGGCCCGAGGTACGCGGGTTACACTGGCTACCCAGATCTGCAAAGCAG
CTGAAACAAATGTAGTTTATTAGCTGGGCAGGAAACCATCTGACAATACAGAAGTTCACT
TACTGAAAAAAAGAGTAGCTATTAGCAACTGGACTCTGAGCCACAAAACCCAAGGTTTCA
CTAGAATGTGAGCTATCGCCTTTTCTTTTGGCTGCTGTCAGCACACAGTATGTAAAATAG
AGAAAACAGGGAACTTTCTAAAAGAAAACTAATTTTAATTCTAAAAAGATATGAGTATGG
CTTAGCAACTAAATCTGTTAGATGGGGTTGACTTCATCATTACTCCTTGTTTTTGGGACC
ACTCATCCACGACTTGGAAACGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 3702

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAAATGTTTTAGGAAACAAGCTACTCCAAAC
TTCAGTTTCTTAGGGGTTATCTGTTACACAGTTCAATTAGTTAGTTTCCCAATCCATCTA
GACTTCAACATTGAATTTGATTTTACAATCTCAGGGACTTGAAAAGCTTCCACTTCTGCA
AATGCTATTTCCCAGCTCTAGTCTGTCTACCACTTACTCACAATTAGCTGCTTTACACTC
TCACCACACCCTTCAGCCTCTCTGAGAGCCAGGCAGTAATGGCCATTTCTGGGGCTACAT
CTAAGTAGTTCACAAGCTGTATCCTAAACTCTCAGCATAGGGTCTGGTTCAGAGTAACAA
CTTAATACGTATTTATTAAGTGAACAAACAAATGTCTGAAATCCTCTGTCTTGGATCAGC
AATTATCGGTTATCTTTTCTGANAAGCTTGGAGAGAAGGTGCGCAGCTATTTATTTAACA
AGAGTGTTAATTTTTATTTCCTCCCCTTTTTATCTGATTACTAGATGGGCAGACAGGAGA
AAATGGTATTANGCAAAGTCTATATGACTAAGTCTCTTCAAGATGTCCACGTGGGGAAAT
T

Sequence 3703

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTAGAAACATTAAGAGAGCAAGTGAGCCTCAT
TTCCAGACACATGGGAGATTTCTCTCAGGACTGTGCAAAGCATTTCATGTTCCAAGACCC
TGCCTTTGTTAAAACATAGATGCATTTTTTTTTTCTTTGGGGATGTTCAGAGCCTTCCAG
AATTATGCTTTCCCAGGAGAGATAACAACAGTCACATAGCCAAACGTCTAGCAGTGCTTC
TGCCTACCGAACAGAATTTCCTGAGAATCTTCTGGAAAAGCAGTGCCCAGTCACTCATTC
TGCAAAATGCACTCAGCAGCTCCTCTGAGAGAAGCCGTGGATATAGGGGGATGGCAGGAG
AGAAAGGCAGCTCTCCCTGCCAGGCGGGTGAGGGGCAGGACTATAGACCCTTCTACTGAG
GGCGAGCTGGTGGAATTTCTCTCAATGCTCAAGACCGAGGAGTTTATCATTCCCTTGACC
CCTGGGCTTTAGCTAGAAATGTCCAGAACTNCCCCATNCTAACTGAGAAGGGCAGTTGCT
TGCCCCAAACCCCAAAAGACTAATTCTTTTTTTTTT

Sequence 3704

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCATATTTGACATAACACCTCAATTCCAGAG
GGGAAACTTGGATGGGAGAGAAAAATCCTTTTTATGGGTTGCTTCTAGAGATTACCTAGA
ACTTAAGCGAGGTGATTTTACTCTTTCTTCTTTTCATAAGCAGTAGGATTCACTTCAGAG
TTGAGGGCCTGTTGCAATAGAGGGACATGTTGATTATAAAAGAATTGGGTTATTTTTGGC
TAAAGCAGGCAGATCACCTGAGGTCAGGAGTTTGAGACCAGCCTGGTCAACATGGCAAAA
CCCCATCTGTAATAAAAATACAAAAATTAGTTGGGCATGGTGGCGCACACCTGTCATCCC
AGCTACTTGGGAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGATGGAGGTTGCAAGT
GGGCCAAGATGGCGCCCTGCAGTCCACCCTGGGCAACC

Sequence 3705

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAGTCTTTATCAGATCATTGCANAAATACT
GCGTATCTTTAGATAATATTTTTAAAATAAATAATTNGACAAATGACTATTGAGTCAGCC
AGAAACAAAGAGAAATTGTTCCATTTTGTTTGGTTTTACTGTTGCCATTTAAATTTGATT
CCCATAGTGGAAAATCATCCCTACTTCTGTTCAGAGCTGAACTCATAAAATTATAAAATG
TTAATCAAGGTATAGATAAAATCATTAATTTTCATGTCAATCCTGCCATACTGCTCAATC
CAAATCTTAGCAAACAATGTGTAAAGAGGGCATCTATTATTAGAAGAATTATTGACTACC
TACTAGTAGCTTGGATTCCATTAATTTTTGAGGTTTTATGTAAATTNGGGGCATTTGTCA
TAATGACATTTAAATCTCTATCGCATCATGAGTTAGGGTTTTATGTGTATATTATATTTC
TTCAATATACTTACATACACATTAGCTTCTTTTTATGATTTTGTGTNAGGGATCCCTTTT
ATTAATCAAGCTTTTTTTCCCAGGTCTGGTGGGTAATAAAGCCAATCCAA

Sequence 3706

TABLE 1A
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CCCTTAGCGTGGTCGCGGCCGAGGTACTGAAGACAAAGGTTGTAATCAATTTATGGTCTT
AGGCTATTTGCACGACTGAAATCTGAAAACTTCATGAAATCAGGGATCATTACAAATATC
CCAATGCCTTGTGCCAGCCACAGAAACTCAGTAACAGACTATTTGACAGAATGGTGTCAA
TTTAATCATGACATTGCAATGGACTATAGGAAGAGTCAATAAAACACTGATAGTGGAGCA
AAAATCTGGCGTGACACCTGACATTGAAAAAGTCGGATGGAATACAACCACATCCATTTG
TTCTATGTTGTCTATAGCGGCTTTCACACAGAAACT

Sequence 3707
CCCTTAGCGTGGTCGCGGCCGAGGTACCTCCAAAGAGGTAACACTAGGAAACAATATAGA
TGAACCACCTTTTCAATAGCTAGCATTAAATGTGAAATGCAAACTAGGGCTTCAGTTTCA
GAACCTAACAGAGACATGCAGAATAATAAAATGGGAAGTTTGGAAACACTTGGAAATGGA
GAAGCAAAAACGTCTTTAAATTCTTATTTTGATAAGTAAGCCTCAAATCTAATAGATCAT
TTTAGATGCCAATAACTGGCAATTCATTGTCAAAATGACTTTTTTTA

Sequence 3708
CCCTTAGCGTGGTCGCGGCCGAGGTACCTCTATAACGTTGGATGAGTTACTTAACCTTTC
AGTGCCTGTAAAACAGATAATAATAGTAATTACTTGCCNCATAGGAAGTTTGTTAAGTAA
GGNATTNAAAATNGNGANTTAAATTTTANCCATAANTATATTGTTANCCAATTANNATNG
GCCCCTTATNCCAATAATTGNNTTAAANGGCCANATTTGNAAAAATTGGNCCCAAGGCCC
TTNGTAATTNTTTATTTTAANGNTAATTTTNGGGGCCAAATTTTAANTNCCTTTTTNTTG
GAAAAAGGAAAAAGGGGGGGNCCCCCCAATTTTTTNTTAANAANGGAAATTTTTTGGGGT
TTTTNCCTTCATTTTAAACCCCCTNTTGGNCNNTTAAAATTAANAAAAATTGGNTNGNNT
TTTAAGGATTGGTTTGNAAAAAAAAAAGGGTTTTAAAAAAATTAAGGGTTTNCCCCCAN

Sequence 3709
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCCTCACCCAACTCAACTCTTCACATAGCTC
AAGTCTTGGCATAAATGATATTTCTCAAGAGATACATTTTCTGACCACTTTATCCTTGTC
TTTCCTTCATAATTAATCCATAACATTATGCTTGTTAGCTTCCTTCATGGTATATATCAT
AGATTGTCATCATATATTAATATGTTTGTCTATAGACTGTCTCTCATATTATATTCTACC
AATATGAGTGCAGCATCCATATACCATAGACCTAGCATGGTCTTAGATAACTAAGATCAA
ATAAATACAAAGGGTTCAAGGGGCAAATAATAACGATAATAATTAGGGATTCTCAAAAAG
CATAAA

Sequence 3710
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGGAGAAATGTAGCATAAATTTCATATC
TCAATGTGGGAGAGGTGATGTCACATTGTAGAAGACTTTGTGAGATGGGAGATATTTCTG
TGGCAAGCTTGTGAAGATATAATATGTCACAAGGGCAGAAGCATAATAGATGTAACCCAA
AATTTTAAAAAGAATTATCAAAAGCCAATATAAAATATTTTATTCACACAAAATCTGAGA
CAATTGATTATGAAAAAACCATATTAAAAGATCTTCTATAAGATACACACCAGGAAATTG
AATCAAAAATGAACTAAAA

Sequence 3711
CCCTTAGCGTGGTCGCGGCCGAGGTACATGACTACCCTGGTCTAAGCCACCATCATCAAA
AGCCTAGGCACCCATAGTATCTCCTAACTTGTTTTTCCCTCTACACTTTTGTCCCATTTT
CTAAATGTAATCATGTTGCCCTGTGCTAACAATTTCAATTGTTCTTAAGGAAAATATATT
ATTGAGTGCTTCTTATATGTTAGGTATTGTGCTAAATTCCAAGAATAATACAAATAACAA
AACTGAGGAATTATTTTTATGTTGCTCAGCAGCCCCTAACTAATCTGAAGCCTGAGTATT
ATTCCGAAATCAGTGTCTCAGCTCCAAGCACACCAGCTTTCTGGACAGATG

Sequence 3712
GTAATACGACTCACTATAGGGGGCGAAATTGGGGGCCCTCTAGNATGCATGGCTTCGAGC
CGGGCCGCCAGTGGTGGAATGGGGGATAATTCTTGCAAGAAAATTCCGCCCTTAAGCCGT
TGGGTTCGCCGGGCCCGGA

Sequence 3713
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGGGAAGCAGCAGCTCTAGCCCTGGCAAACCT
AACCACTTGCAACCCTGCTAATGCAAACGAATTTCTGCTCACTCACCTTGAGTTGATTCG
AGTCAATTAAAATACATTGATCTTCTCAGCACCCGGAAATATAAATAAGACTCAAATATT

TABLE 1A
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ACCTCTAAGAGGATGTTTTAAAAAGTGAACATTCTCGAGGGAAAACCACCAAGTGACAAA
GGAATCATGCATTTTGGCCAAGCATATTTATAATGATTAACAAATACAAGCGCTGCTGCT
GAAGCTGATGGTATTGATCCATTAATAAACCTCCTGTCTAGTAAACGA
Sequence 3714
CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT
GTTTTTCTAAAAGATTTCTCACATTGGCAAACTGAGAGATTTTCTTCTGGAACACAGGAA
AGATTATTTTAATNGCTTATAGCCATACCATGGTCTGAATATGGGAGGATGACAGACACA
GAACGAGACCAGATGGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATT
CAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGG
ACCGCTGTTTTGGATTTCATTGAAGATTACTTGAAAAGAGTATTGTAAACTTTACTCAGA
ACAGAG
Sequence 3715
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GCCACTTGATTCTNTGNNCCTGATCCGAAATCTTCTGCAANAGCACTTGGCAAAAGTGTC
ATAAGNGAAAAAGTCAGTGGTCAAGTGGGTTCTCGGAGTCCTTCTATGATTAGTAATGAT
TCTTGAAACCTTANAAGAGTGTATGGTGTGCTCAGATATGAAGAGAGATACTCTTTTTGG
TCCATGTGGACATATTGCTACCTGTTCTTTATGTTCTCCACGTGTCA
Sequence 3716
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TGGTCTCCTTGATTGTTTTGCAACAGGGATATTTTAAATTGGAAAACTGAAAAGATAATG
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GCAAGGGGAAGACAAGCCCTCACTTAGCTCAGCTAAAGGGTTATCTTAATGTTTTGAGGG
GTAATAAGAGAAATTACTGTTAGTTGGAAAAAAAATAGAAAGAGACAAATAGAAAATTTC
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GGGTGACTTGAAGCACCATGACTTGAAGTATCAGCTAAGTGAGTATTAGTCTCAATTTTT
TCCTTTCAATATTAAATCTATCTCTGNAAATCTCCATCCCATTTTTCTACTACCCTTCTA
AGCATNNATAACCCTTTAAAGGATAAGTTAAGAGAAAA
Sequence 3717
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AAAACTGCCTCCTGGAAAGAGAGCAAGCTATGGGATTAGATACTTAATAAAATTTTAGGC
AAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCTTATT
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AGCTTGATGTGAAAAAGTAGAGACAAATTTGCCCATGCTACATCAAAGTGTAAAGAACTG
TCCATCTTAAGCTGGGAAACCTGAAAATCATGGCAAGTATAAAATCACTTTTTAGTAATA
AGACAAGGAAATAAAATAACATAAAAGCACATGCCAAGAAAGTATTAGGAATCCATCCTA
CGAAAATGCAATTTTTAAAAGTGACACAATATCCCAGGAAATAATTATACCGAAAGATGC
AATGAAAACAAAAAATTCAAAGGAATNCATCAAGGGCCTTNCCNCAAAATTTA
Sequence 3718
CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCAGTTTATTGAATTGATGAATTGATTTTT
TTTTAGTAATCACATAAATTTCTGTAAGATTTGTTATACATTGTTTACTGTCACAGAATC
ATGTTTTATATCTTCAAGCTCAAAGCAAGCTTTCAAACTTGAATTTAGTTCTTGCATAAA
TATGGATGATTGTTTCTCCATTACTGAAGCAGTGTATTATTTCCATAATGATCTGTAAAG
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AGTCATCGTTCATT
Sequence 3719
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TAGAAGATTTGGGGTAAAACAGGCACTAGATGGTGAGGGGTTTTATGCTCTACTCATTCT
TTACGCAAAATAAAAACAGACGAGTAAGTGTTGGCCTCTTTGGAACAGATGATTCCCAGC

TABLE 1A
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AGCAGTTGGCATGCTTTATGTACTTTCTATAATACTAATAAACTAGTTTACAGAA
Sequence 3720
CCCTTAGCGTGGTCGCGGCCGAGGTACTACTTCAGTCATTTTCTTAATTTGCAAATCAAT
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CTGCTTAATTTTTTCTTCAAGTTCCTTTTCTTTTTCAAATACTTGGGTTTGTAATTGGTC
AAGTTGTGAAAAATCCCAGTTTAGTCCAATATAGTCAAACACTTTTTTAAGTTTCAATAC
CTGTAAGATGCAACACTTAATAGCGGTGAGTCTGCTTTAAGATTATAAGATCTCCTCTTT
AACACCTTTATTTACTTCTTGATTAAGTAATA
Sequence 3721
CCCTTAGCGTGGTCGCGGCCCGAGGTACAAACGAGTTGTATTTAAAGAGTGCTTTTTGAA
TTCTAGGGCTCTCTGTAAGTTACTTCATCAGGATCCTGTTTCTTTGATCAAGTCAGCATG
GGTGCCTACCAAATCATTTCTACTTTGCTGTGTAGCTTTTAAATCTATTTTCTGGGTCAC
TGGGCTTACTCATGGAATTTCTTTTCCTTAGTTTGTTTCTCTACTATAGTCAGAGTAAAA
TGAGATGAATGGATCTGTATTTAAAGTGTGGCATTTTCCCAGAACTGCCATGGCCTTTAC
ATTCATTCTCAAGAAGATCAAGGATGAGCAGAAATGATCTTCACAGAACCAACATTTACT
CCAAAGGCATCAAAACTCTANTTCCTGAAATGCATTTGAGTCACTTACCAGCCCAGTGGG
ATCTCTGTGCCAACAATTTGAATTTATATCAGTTTACAAATTCACTGAAAAGAATTGNGT
CTTTTTTGGTAGTTCATTCCTGAAGTCTTCCAGGCTCTACTGAATAACCCAGATGATTTA
TATATACCATCAAACTTGCCTAAACCCTAAGCACTGCCCTGGTTATCTTGGCCTATTAAA
TGCCCAGTCAGTAATTCAGTTTAAAT
Sequence 3722
CCCTTAGCGTGGTCGCGGCCGAGGTACCTTAATTTATCCACCCACAGAAAGTTTTTCAGA
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CTCAGAAGCCATCAATAGCTCGAACAGAAAACGTCCTCACATCTGTCACACAAACACACC
CCATGGAACCAAAAATAAACCCCACACTGATGAAAGCCAGCATGTCGAAAGATAATTTTA
GATCTATTTGAAGACTGCAGAGACTGTCTCGCTGAAATTTTAAAACCACACCACCAGAAT
ACCCAACCCCTTACGATTATGCTCAGCCCTGATGAGGAGGCAAAAACACTTCATTCCATT
TTATAAAC
Sequence 3723
CCCTTTCGAGCGGCCGCCCGGGCAGGTACANTNNNTGCTATNNGTNNNNTGAANNNTNNG
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ATAANACATGTTGNTTTAATAAATACTAACCTTTATATTCTGCTTATTTTTAAATTATAA
ATNCCATCTGNGTAAATAGTTTCTCTCTTCTNGCACTTTACTAAAAGGCAGTTAAAAGAA
ACCCATTCTGAGGCTGGGATTACAGGCGTGAGCCACTACACCCGGCCTNATCTGCTCTTT
AGGATATGGCAGCAGATCATCTATNTATCAGATACAATTAGAACCACAGAAAAAATTTAA
GAACCTTAAAA
Sequence 3724
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG
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AAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACA
GAACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAANCAATT
CAGCAACTACNAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGG
ACCGCTGTTTTGGATTTCATTGAAGATTACTTGAAAAGAGTATGTAAACTTTACTCAGAA
CAAGAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAA
Sequence 3725
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTATCAATCTTTTGATTTTAACTCATGTGTT
ACAATTTCAAACAGTATATTATATCACCATTATCACCACGCTGAAGTTTAAATGTCAGAA
TGACAAGCCCCNCGTATAATTCATATTTTTAGACTTAACTATTAATATTTTAGTTAGAAA

TABLE 1A

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AACTTGAGACATATGCACAGACACCTGTAAACAACTACTTGTTCACTGAAAAATGATATA
ANAATATCAATTT
Sequence 3726
CCCTTAGCGTGGTCGCGGCCGAGGTACATAAGACCACACAATGATGGCNTTCAAGAGAAA
GAAAAGAGGTAAGGATGCAAAATTAAAAAAAAAATAGGACTTAATGAAAGCTAATTTCAT
CAAGCCCAGGTCACTGATGAGAAAGATGTAAAATCAAGAAACCAGTGAAATAACACGTAA
CAGGTGAGTCAAACATTACCAGCCGCATCAAACAGTGGAAGTGAAATGGCACCATCTANC
CCACCTGGTGAAATCCAAAGCGAGAACTTAAAGGGAGTAAGGATGATTCACAAAATGCGG
TCGGGACACAAGAAAAGTGAGTTTGGAAGGACAGTGAAGAGAGAAAAAAGAATAAGGAAN
CCACCAAAATTTCAACTCAAAGATACATTTTAAACTGCATGGTATGGCCCACTGTCAATA
CCGTGGCTGCCTGGGAACAAAAAGGGTGGTCTCCAGATCCCCCAGAACCCCACTATACAC
CAGGAGGACAAGGAGGAAAGGAAGAAACCCCCTTTGCCTGCCAGAATGCACATGAGGGGA
GGAAGG
Sequence 3727
CCCTTAGCGTGGTCGCGGCCGAGGTACATCAATTCTTATGGCACAATAAAATAAATCCAT
AATAGCTGTGGGATTCAGAAACAAAGTTATTTACAGAAATGTTTTTGATATAAAAAATAA
ACAGCTAATATGATGAGTTTCTACATCAGTAAAAATAATTTCATTTGAAATTGATTACAG
TCTGAGCACATACTACTATGTAAGAGACTCCACTGGGGGCCCTGAGAGATAGAAAGATGG
CTTAAATACAATGTTGACACCTTTAGTTATTGATAATTTACTATAACATGGCAGTGTGCC
TAGTAGCTGGAACAATGTGGCAAAAACTAATAAATCTGCTGCGTGAGATCCTTAGTAATT
ACTGTTCCATCTGCCTAGAACTATGCAGCCATATAAAAGTGTATCCCAACATCTTTTTAG
TTGCTCCCTTTTAGAATTCCTGTCTTAACTGAAATGTCCCCTCCTCAATAAAATTTTCTC
TAATATTTGATCTATGTTAACCCTCTCTCTCAGTTTTCTTCACTGCAAACAACATTT
Sequence 3728
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCATAAAAATATAAGGGAAAATAAGCTTTCCT
AGAATTTTTCAGTGTTCTAGTTTTTAAACAGTGATGTTTTTTATTAACCTATTTCATCCA
TTCAAAGACAGGCCTTTCTCCACACCACATTTTCCTCTAAAATCATGATAACACTTTTAA
ATTGATGGTGTCTTCCAGTGTGTATCAGCCAGATGGCAGTGTGTTACAGTTCCAGGAAAA
CTCGTTCACATCTTCCGTAAGATCAAGAAGGCTCTGGCATCAGATAAGATCAAATGTTGT
CTTTCTGTTTTAAATATGTGCCGCAAAGAGATTTGCTTACAATCTATTGAGAA
Sequence 3729
CCCTTAGCGTGGTCGCGGCCGAGGTACAGATTTTCGTGATATATTTATACACGCATGGGT
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ATAGGATTGAAATGATATTTTACACTGTATCACAGATACAGTATTTTATATAACTTTTTG
TAACTGACCTTATCTTGGCCTTGAGTCCCATCCTCTCTGGTGGTAGCGTAAAACTGAAAA
TTCCAGTTTGGGTCAATATTTAGTGAAAGTTCTACTTTCTTTTCAGAGAGTTTGTT
Sequence 3730
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGTGGGAAAATACCATGGGAACGGCGCTAAG
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TTTTTTATTTTAATGGATAAAAATGTTATATGGCTGATATGATTGATGACTAAGATAAAT
TTTCACACTGGGACATTTTCTGCCTGAAGGTCAGGCTTAGGTGGCCTGGTCCCAGAGTTG
CTGTTTCTACTAGGACCCGACCTGGTAAAAATAGAAGATACAGGGTAGTGAGGCAGATTT
GAAAAGAATGCAGCATGTGCAAATTCTTAC
Sequence 3731
CCCTTAGCGTGGTCGCGGCCGAGGTACAAATGGCTGGACTATTCTTTGCATGGATAGCTA
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CTACTATAAAATATAAAATGTAATTTAATTTTTTTCTAACCTACGCCCTTATTCTAGGCC
TTTAAAAGCACTAAATTGAGAATATGGGAAAAGGAATCTATAGAGTTTCGGCCAGATAAT
ACAGGAAAGATCAACCTAGATCAGGATTCAGAAAGCCATCCTGGCTAGGCATGGTGGCTC
ACACCTGTAATCCCATCACTTTGGGA
Sequence 3732

TABLE 1A

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CCCTTAGCGTGGTCGCGGCCGAGGTACCAACCATTTTGCTTTTAAAATACTGAGGCAAAC
CTCTCTGAGGTTTCTTCAAAGCCAATGGCAACAAACATATTTCAGCATCTGTTTTGCTTC
ACTGTANGTCTGTGTGTGGGTAGGTTATAAAATAAAAATGAGCTTGCCATTACAGATACT
ACTTAAAAACCAAAAAAACTATGATCATGATGTTGATAATTCTGNATTCATTATCCTAAT
AAAAACACATAAATGTCTAGAAAGAAATAGACAATTATGTATTAGGCCTTCCATCTCTTA
TTTAATAATAGCAGGGTCATTGTTCNTAGNTAAAACCCGCTCTGATCTTAATAAATCTGA
TGTAAA

Sequence 3733

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTTTTTTGCC
TACAACACATGGTGAAGGTTGCCAAATTAAATAGTGTTTCTATATTTGAAAATGGGAAAA
AGTCATTAAGAAAAAAAAGGATAAAGAAAAAAGTATGGTAGCTAATGTCCAACAAGTTGA
AATGACAGTAGCTTTGAAGGCCAATTAAGTCGATACAAAACGAAATCGANAATGACGGCG
GTGGTTGTAGGCTGCATCCTGGGGAATAAAAGAGCCACTCCGCGAACACAGTATTTTCTT
CAGAGCAA

Sequence 3734

CCCTTAGCGTGGTCGCGGCCCGANGTACGCGGGTGAAAATGTGAGAGCTCTGCTCACATC
TGACAGGTCTATTGGTTGAAGTTTCAAGTGGCAACTGGTTTGTTAGAACCAGTCTCTTCC
AGTGAAGAAAGTTGTTCACTATTTAGCAAACGCTAAGGAGGAAGTTCATGTAATTCAGAT
AATTCCTATGGTGTCTCCACAGATACTACGTGGAAAAGATGGGGAGTAGTGAGAGAAAAC
ACATGAATATGTGAACCCTTCGGGTCTGTGAGGGATGGAAGGATTGGGATTATTGGAGAA
AAATAAGGATAGCATTCCAGCTGGGCAGATCTAATTCGAGAATAAACAGGATGTGCCTGT
AGATCAATGAAAAGAAANGCCAACTGGAGTAGGGGTGGCCTGTTGGAATGGCATTTAAAG
CCAGTTAGGGAAAAAAAAAAAAAAAAAAA

Sequence 3735

CCCTTAGCGTGGTCGCGGCCCGAGGTACCGAAAAGAACAGAGGAAACTAAGGCAAGCTGT
GAAAGATGCTGTGTCTAAGAAACCCATTCCATTGGAGAACCCAAAGGAAAAGCGACCAGG
TAAAAGGATTGAGAGGGAAGAAGAGGAAGAAGAAGAAGCCCTTCCTTTAGATATGATGGA
TGAAGATGACTTACAGTTAATGAAGGATTTAGGACAAAGAGTATCTTTTCTAACAAGAGA
TCTTTCTTCTAGTGAGCCTGTTCATGCGAAGAAACGGAAGCATGAACGCATTATAGATAA
ATATGAAAAAATACCAAGAACTCTGCAAACTGCACCAGAGAAGGAACTGATTCATTTACT
TCCTATCAAAGATAAAAGTGGTATAATCCCACAGACTAGGGAGAAGCCAGTTACTGATAG
TACAAAGATGAAGAGGATCAAAGAAG

Sequence 3736

CCCTTAGCGTGGTCGCGGCCGAGGTACTATTTCTCTTCTACTCCTTAATTACATTGAATA
CAGATATTAATTTTGCAATTGCATATTCAGTTTCCTTTCAATCATCTATTTTTTTACTCA
TCTCCTTTTTCCCNAATTTTTGGGNCCTTTTAAAAAATTNACCANGTTGGAAAATTTTAA
TTTTTTTTTTGNTTTGGGCCTTTTTNACCGGATTTTTATAATTTTCCTCCTTACCCTTGG
TTTTGGCTGGAATTTTTTNCNCANAAAACCAATTNAATTTTNCTTGGGGGGGTTCCCCCT
TGGCCNAAGCTNAATTAACCCTTAAATNTCTTTTTTTGGGGAAGGGAACCAANTTGGCCT
TTCCTTTTTTNTTGGGAAAATTTCCAATTTTTCCTTTTTCCCCCAATTTTNTGCNCCTTN
CCAACCAANAAANAATTAAATTTTTTNACCCAAGGGAAGGTTTTTTTTTCCCAATTGGGG
GAANAACCAAAACCTTTTTCTTTAACCNAATTGGGGTTNTTGGGGGAAGNNTTAACCTTT
CCTTGGNAAGNGGNCCTTTTNGGTTAAGNGGGAAGGGGGGGTTANA

Sequence 3737

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTGTGTGTAGTCGGGTATGAGAACGA
TTGCAAGCAAAAGCAGCTGAGGGACGCTGTCCAAGGAGTAGGCTCAGTAGCACGAACTGC
AAATACTTTGAGAAAGGGGAAAAGTTCAGCCTTTGTTGCCTGGAAAAGTTGGTTTANCCA
TGCTTGGAGCTTGGTTTTCTGCTTGGTAAGCCCTACAACTTTTGGCCCAACTACTTGGCC
TCTGGGACTCAAATTCCTCCTCTTTAAAATGGTGCTAATAAATAGCACCCACCCTNTGTG
AGGAGGATNCTGTGAGGACAAAATGAGGATCATCCACATNAGCCGTGAACCCTG

Sequence 3738

TABLE 1A
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CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTACATTGAGTAAAGTTATACCCCACTTTC
TTGGTTGATACTGTCATTTGATAAAATTCATCAGTGGATAAATTGCTATGTATGTGTGTG
ATAAAGATACTTGCCTTAAAATAGAACACTTCTGTCTTGCAAACAGTTTATGGTCAAATT
GCCTTTTCAGTTACTGTTCTTTCCATGCACCTAGTGAATTTAAGTCTGATAAAGTCCCTG
GATGTAAGAAAGAAGATGAAATGTCTTTTCATTGTTAATTATCTGCACCTGGATTAAAAA
GTATTTTCAACATGTGAAAGACTTTATGGAAAAAAATAATATGTGTGTGTTGTTTGACTT
TTACTGCTAAAGACAGCAAGTGATTGAACAGATAAAAATTATGTATTGGGTTTTAACCAT
TATTTTTATTGACCCTATCCTCAATGGAGA

Sequence 3739

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTTGGGA
TTTTGTATTTTTAGTANAGATGGGATTTCGCCATGTTAGCCAGCTGGTCTCAAAACTCCT
GACCTCACGTGATCCGCCCACCTCGGCCTCCCTAAGTGCTGGGATTACAGGCGTGAGCCA
CCTNACCCAGCCAATAATTATTTTTTCACATATCATTTGGGCATCCCTAAGTTTCACTGG
TAATGGGGTAATGGCAATCTAACATTTTTCACACATATATATATATAAAGTCTGTTGATT
TTCCTTTCTGAAATGCTAACTTGATATGTGCCTCTTAAGGACTTTGACATGAGCAGATGA
TATGGATGCTTGCTTCCGGGTGGAGTGAGTGTCTGTCTGACCTCTANAATATGCTCTATT
TCTGCTGGGACTCTAACTTAGTCTTAANAGGAGACTTGACTGTTTGAACATTTAAATACT
CTAAATAGTCCACTGGCNCTATTAACAAATAAATATAANTGGCTTTTAAAAAAAAGCTTT
TTTTATTTTGCATTACATGNGGTACAATCTTTCAATTACTGGGAGGGAACACAAGGNGAA
NAGCTGCTTANAATATTTATGTTTAAAATTTTATGGGAACATANAATTAANATTTTTGGG
ATACTTAAAACANATGCCCCCGGGNACTTTTTTTTTTTTT

Sequence 3740

CCCTTAGCGTGGTCGCGGCCGAGGTACACCAGAAAGCAGTATCATTATTTGAGTCACACC
TGGTAACTTGACACCTGCTGACACCTTTCTACTGTTTACTTGCAATGTCTCAATTTTCCA
CCCTTCTAAAGGACTCAGTGTCATCTGAAAGCTTGGCACTTTCACTATGTGCCCAGGGCT
GGAGATCACTGATAAAGACGTTAAATAAAACCCATTTTAGTTCCACTCTCTACATAATGC
TCGCTATTTAAAGGACTCACTCAAAGAAGTGCCTGTTTCCCTCTACCCTTTNGTTTCTTC
TGTCTGAACTACTTCCTTCTCTTTGA

Sequence 3741

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTCTAATGAAGTTGATGGATTCTCTTGGGACA
GGGTTATAATCATGCTCATCAAAAAGTCAGAATATTTAGCAGAATATGCAATAGGTCATA
AAAATAATTTAAATATTTTATTAAGAATGTTTTCCTTAGCCAAGTGTGGTGGCTCATGCC
TGTAATCCTAACAATTTGGGAGGCTGAGGCAGGAGAACTATTTGAGCTCAGGAATTCGAG
ACCAGCCTGGGCAACATAGTGAGAACTTATTTCTACAAAAATAAAAAATAAAAAAATTAG
CTAAGGCTTGGCGTGGTGGCTCATGCCTGTAACCCCAGCACTTTAGGAGGCTGAGGCAGG
CAGATCACTTGAGGTCAGGAGTTTGAGACTAGCCTGGCCAACATGGTGAAACCCTGAGGC
AGGAGAATCACTTGAACGCGGGAGACAGGGGTTGCAGTAAGCCAAGATTGCGCCATTTCA
CTTCAGCCTGGGCAACAGAGTGAGGCTCCATCTCAAAAAAAAAAAAANGAAAAGGAAAAA
TTAAGTACCTGCCCG

Sequence 3742

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TTTTNNNTTCCNAAAATNTNGNNNAAAANNAAANNAAACCNNNAATTTTNNTNNTNGGNN
NTCCCCNTTTNTNANCCNTNGCNNGGNNGGCCAGAATGGGGGGTNTTTTNGGAACCNNAN
NAAAACNNGAAACCTATTCNCCTTNTNNGGGCCCTAAACNTTTNTTNGTTCCCANGNNTT
NTTTGNAAANCNTNGGGCNNTTTAACNGGNGATTGACCCTTTATNGGACNTNNGGAAAAC
CACCNTTTTTTTTTTTTTTT

Sequence 3743

ANTACTGTTATCCACCNNAATCANNGGGATAACCGCAGGNAAAGGAACATGTTGAGCAAA

TABLE 1A

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AAGGGCCAAGCAAAAAGGCCACTTAACCCGNAAAAAAGGCCCGCGTTTGCTGGCCAANTT
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NTTNAAAANGTGGTGNAATANNCCGGANNGGGAGCCNANACNCGNNNGNGGNGAAGGCGN
GNTTNGCNGNNANNGGGGCCGCTNCTTCCCNCTTTACTTTGGGTCACTTGANTTCGNTTG
ANACTTTGGGCCCCCCCGGGNGGGGGGGG

Sequence 3744

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTATGGGAAAAATTAAAGGAGGATAAGGAGGA
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AATATTTGAGTATAGACCACATCTGGCCGCCTNTTGTTAGCCCATGAGCTGAGAATGGTT
GTTACAGAACATTTGCAGCTGGGTATGGTGGCTACTGCCTGTAATCTCAGCATTTTGGGA
GGCCAAAGCAGGTGGATCACTTGAGGCCAGGAGTTTGAGACCAGCCTGGTCAACATGGCG
AAACTCCATCTCTACTAAAAATTAAAAAAAATCAACCAGGTGTGGTGGGGTGTGCTTGTA

Sequence 3745

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GCTCATGCCTGTAATCCCANCACTTTGGGAGGCCAAGGCAGGCANATCACATGGTCAAGA
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Sequence 3746

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TTTTTTCATATTGTAAGAGATGGGGTCTNACTATCTTGGCCACACTGGCTTTCAAACTCC
TGGGCTCAAGTGATCCTCCTGGCCT

Sequence 3747

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TTAAAAAAATGCCATGCTTCGGAGCCGGCCCGCCAGGTGTGGATGGGATANTCCTGGCAG
AAATTTCCGCCCCTTTTAAGCGGTGGGTCCNGCGGGGCCCGGAGGGGAACCTTTTTTTT

Sequence 3748

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GGCTGTAGGAGAGTTTTATCAAAGATGAAGGAATAAGATTTCTCTTAACTGCTCCATCAA
CTCTTCCTCTTAGAAACCATTTCAGCTCTCCAGAGGCCTACAAAGTCTTCTGTATTATGT
GATCTCTTGGGCTTTAGATTGCTTCTAGATTACTCTTTCAATAAACTA

Sequence 3749

CCCTTAGCGTGGTCNCGGCCGAGGTACATTACAATTTCAGCAAAGCATCTGNCAGAANTA
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TCCCCCTTATCTNTTTAAAGGGGAACCATGATGATAACTATCTCACCAGGTTTTAGTAAA
GACCGAATGGTAAAAATCTACANAATGCATT

Sequence 3750

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TABLE 1A
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CCTTTAAGCTTTTTGATTTCTCTTTCCAAACTTTTGATGTCCCTTTGGGTATTTGGTGGC
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GCAGAGTTTGATATCAATCTGAGTTCTAGGACTGTGAATAAACTGTCTTTATCTTATCCA
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GAACCTATGAATATATCAGATAAAATTTTAGATATGATCTTTTTGAGAAAAGTACCTCGG
CCCGCGACCACGCTAAGGGCGAAATTCCAGCACACTGGCGGCC
Sequence 3751
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GCTTTTGGAG
Sequence 3752
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AGCCTGTGGTTGTAGCCTTCTTTCTATTATTTATGGCCATGTGTCCTGGCAACAGTTACA
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Sequence 3753
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CCTTTAAAAAACTGCAGGCTAACAATTTTTTTAGTGAAAAGTTTGGGGTGTAAATATTAG
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TCACACCTGTAATCTCAGCACTTTGGGAGGGTT
Sequence 3754
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CATTGGATTTCTAATTTCAATTTGGAATTTAAAAACCAAATACCTGAATTGGTGTCCTAA
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CTTANCTTATTAAATGANAAAAAAATNGNCTAAGATTTGCNAGTTAAA
Sequence 3755
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GTCAGTTTCAGTCATTTGAACCATACATTTGAACCATAGCTGAGAACCAGAAAATCAGTA
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TACAAGATTGTTTTCCAAACTTCAGTGG
Sequence 3756
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TTCTCACAGGTGTTCTCCANACCCGAACACTGTAGTTTTATGTAGATTGCTCCCCTCTTG
GGAAGGAAGTAGAGCTGTTTTGTTTCTATTCACGTGTTATGTATTACCTCTCTCACTATC

TABLE 1A
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TCATTAACCAGTGTTGTCACCACC
Sequence 3757
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GCACACCTTCAAGACCTGGCAAAGATGATAAGAGAGTATGAACAGGTCATCATTGAAGAT
CGTATAGAAAAGGAGAGGAGCAAGAAGAAGCTCCAGGCCTGGTGGCGAGGCACTATGATA
CGGAGAGAAATTGGTGGTTTCAAGATGCCTAAAGACAAAGTTGATAGCAAGGATTCAA
Sequence 3758
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CCGGCCCAAGNTGGGTGGAATNGGGGATAATACTTTGCCAAGNAAATTTTCCGCCCCTN
Sequence 3759
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NGAAAGACCAGGAAGTTTTATCCTTAAGAAAGGAGAGGAAAAAACCATCCTTTTCTCTTG
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Sequence 3760
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ACCTTTCCACTTNGCTGTGGGCCGGGGGAACCAGCCCGAGGACTGACAGAGTAGCTGGAT
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GAATCCTTCACCAG
Sequence 3761
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CTCTGAAAATAAAACTAGTAATTAAAAATATTAATTTTGTTCTAATCCTTTCTTTGACTA
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GCTGGGATTATAGGCTCGTGCCACCAACCCCCCGCGTACCTCGGCCGCGACCACGCTAAG
GGnnn

TABLE 1A
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AAGTTGCTGTTCAACATTATGGATATACACAGATGATCANGCAAGTTCTGCTTTGTACCT
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Sequence 3764
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AACTTAAACTGCAGAGACTTTCNGGAAAAAAAAAAAAA
Sequence 3765
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Sequence 3766
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Sequence 3767
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TTACATGTTACAAAACAGGCAAAGATAACC
Sequence 3768
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GTCTCTACTTGAAAGTAGGATCTATTGCAGTGCACTCTCCTGGTTTTCCTTCATTCTTTT
CTGAATATGCACCTTGCACATGTGTGGTGTTTATCATGTCAGCAGTCAGTGGTGCCCTCA
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GACCTCACATTTGGCAAAAAGAATTAAGAGTAAAAATTATGTGAGGTCGATCACACTTGA
AGACCTTTTATTCCTTTCTGATTTAGTTGGTGCACAAGCAGTACCCTTTTTTTTCTTTAA
AAA
Sequence 3769
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TGGCAATCAGTGACAAATTCTACATTCCTGAATAGTTACTTGTGAATTCAGGATTTCATT
TAGCTTAATTTGTGTGTTTTTTTCCTCCTAAGTGCTCAGGTCTGAAATAGTCAAATTTTA
ACCATCTAATTGGAATGAAAAGAAAGCCATGGTTCCCGGCGTGTCCCTAGGAGGTGAGGA

TABLE 1A
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TAGAAGAGTGCTGGGAAGAGGAGGCACAGACTCTTTTCATGA
Sequence 3770
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GTGTCCCTGAACATCAGGATTCAGATATGGAAGAAAGAGACAGAGATAAAAGATAGAATA
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Sequence 3771
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AGCTTGGCAGTGGTGGGTGGGTTCCAGAAGGTTAGAAGTGAGGCTGTGAGCAGGACCTCC
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Sequence 3772
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AGAGAACCNTGTCAAATGACACCTCGGGATTTCAACCANCAACGTTCAAATGTGCTAAAC
TNTTGTAGATGGAAAAGAGACTTACAGACATTTTNAAATAAATNCAATATATGGGCC
Sequence 3773
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Sequence 3774
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Sequence 3775
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GCATANAAAGGTGTTTGCCTGATAGTGGGGAATCTACCCT
Sequence 3776
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CAGTCAAAGCGAACTACTATACTCAATTGATCCAATAACTTGA
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ATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATAATGAGGTCAAGTGTTCGAGACCAGC
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TABLE 1A
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GCGGGTGCCTGCAGTCCCAGCTACTCGAAAAGCTGAGGCAGGAGAATTGCTTGAACCCGG
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Sequence 3778
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Sequence 3779
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NGGCTCAATGTAACCTCCGCCTCCTGGG
Sequence 3780
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TGCCCGGGCGGCCCGCTCNGAAAGGG
Sequence 3781
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Sequence 3782
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Sequence 3783
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CTAAAACATTATTTATTTTAACTATATTNANGACTTAAATTAAAAAAATAATTTTCTCAT
TCATCTAGGGACAA
Sequence 3784
CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTAGTAGANACAGGGTTTCACCGTGTTAGC
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GATTACAGGTGCCCACCACCACTCCCAGCTAATTTTTGTATTTTTAGTANAGATGGGGTT
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CCCAAAGTGCTGGGATTACAAGTGTGAGCCACCACGCCCAGCCTCTTTACTTTCTTAATT
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TABLE 1A
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GCCATTGGATTTCTAATTTCAATTTGGAATTTAAAAACCAAATACCTGAATTGTTGTCCT
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GTTTCTTANCTTATTAAAATGA

Sequence 3785

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T

Sequence 3786

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AATTATGAAACCTCCATACTGAGCTTGTTTTCAGGGGTATGCACACTGTTATAATGCTTG
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Sequence 3787

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TGGCCACAGCCAAGTGGCCAAGCCCAGACCAAGTGTCTGGTGTCCAGTCACCTAGTCCCC
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AACAGATCCATCATCTGTTCTTGGGACACTGAGGTTCCTCCTCATCTTGAGGGACATTTT
CCAAAAAAAAAAAAAGTGCCTTGACCTTTCCTTAAAGGAAAAATAAATAATAAATAAAAAG
AACCCTGAAGTCAAGTCACTTATGTAGTGATGTGATCCCGCGTACCTGCCCGGGCGGCCG

Sequence 3788

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTAGTAGAGACAGGGTTTCACCGTGTTAGCC
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CACCATGTTGGCCAGGTTGGTCTTGAACTCCTGACCTNGAGATCACCTGCCTCNGACTCC
CAAAGTGCTGGGATTACAAGTGTGAGCCACCACGCCCAGCCTCTTTACTTTCTTAATTGC
CTCTTCATAATGTATTTAATAAACTATGGCAATNCCANGAATGACAGATTGTTACCACTG
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Sequence 3789

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Sequence 3790

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TTTTTGTCTTGTGATTTGGTAANCACCATAGTCACATCTTGGGAGGTCTTGTCTTATAAA
ACCCC
Sequence 3791
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Sequence 3792
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Sequence 3793
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GAATAGATTTTTTCAGAATGCTTTCTACCAAAATTTCTAGTCAAAATTCACCGAAAGTAC
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Sequence 3794
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Sequence 3795
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Sequence 3796
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TABLE 1A
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ATGTACAGGTGGTCCCTTTTT
Sequence 3797
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CATATCTTGNTCTTATATTAAAATGTTCTATCATTTTCCTAATTATTTTAAAGTCGATTA
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Sequence 3798
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Sequence 3803
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ATTCCAGTTACCCTCGGCCGCGACCCACCGCTAAGGGGCCGAAATTCCAGNCACACCTGG
CCGGCCCGTTACCTAGTGGGATCC
Sequence 3804
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Sequence 3805
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Sequence 3806
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Sequence 3807
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GTAAA
Sequence 3809
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Sequence 3810
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CTGTATGGAAATGTTCTGTTTAAATGTCGCAATCCTGCATTAATCCTGGGCTTTCTAAGG
CGGGAGAATACCTTCATAGCCTCAGTAGCTGGCATGTGGTAGGTGCTTCGTTCTTGTTTT
TTTGTTTGTTTGTTTTGTTTTCTGNTTTTCATTGGCTAGTT
Sequence 3811
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AATTGTTTTTTACTGACATTGATATCATAGAAGCAGAGAGTATTACCACAGACACTGCGG
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CGGCCGCTCGAAAGGGCGAATTCC
Sequence 3812
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Sequence 3813
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Sequence 3814
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Sequence 3815
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Sequence 3816
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Sequence 3817
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Sequence 3818
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ACAAAAACTGT
Sequence 3819
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TTCCATAAACACATATGTGGCTCGTT
Sequence 3820
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Sequence 3822
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TABLE 1A
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AGGAAGGCCAAGCCTTCTTTGGGGATTAAGGGGANTGGTNGTTATTGGAACTT
Sequence 3823
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AAAAGAAGCCAAATG
Sequence 3824
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GAAAAGAT
Sequence 3825
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Sequence 3826
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Sequence 3827
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ACCAAGGATGAAAG
Sequence 3828
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ATNGAAAAAAACACANAGNNNAACACAAAAAAACCCAACCAACCAAACAAACAAACAAAA
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Sequence 3829
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Sequence 3830
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Sequence 3831
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Sequence 3833
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TGGACCNAAAATTTATTT
Sequence 3834
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Sequence 3835
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TCTTATTTTTAAAA
Sequence 3839

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Sequence 3840
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ACTCCTTTTTCCTATAAAATT
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Sequence 3843
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Sequence 3845
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Sequence 3846
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Sequence 3847
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Sequence 3848
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AGTGATAAATTTGGAATGAGTGACCAGAAGGGAAATTAATATCAG
Sequence 3852
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Sequence 3853
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GAAAGGG
Sequence 3856
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Sequence 3859
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ACCTATTTTAACAAATGGTATTTCCGAGGTGTTAGTCCATGCCAACATGAAACGTGAGTC
TAAGGAAGCTTATAAATACTGTTTCTTTTTATTACAAAGATTATAATTCCAGTATAACAA
AATTCACTGGAAGAAAACCATTTAACACAGCTTATTATCTGTTCAAAAAATACCCCGCGT
ACCTGCCCGGGGCGGCCCGCTTCGAAAGGGGC

Sequence 3861
TTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGCAGAAGGAATAGAAGATATA
GAAAAAGAGGACATCGAAAGTCAGGTCCTTAGCCAGTTTTTTTTAAAACATGACACAGAT
AAATTAAGTTTTAAATAATAAAAAGTATTTTTTTCTAGTTCAATTTGGAAGTCTCAGAAT
TTTTAAAAGATGTGTTACTAAAGCTACTTATAAGTCATCTAAAATCCTACCACCTTAGGC
AACCTTTTAAATTTTTGCTTATTTCATATAATATATATTTATACATAGTTGTTATAGAGT
AAGTTCCTATTTATTCTGTATTTTCACATGACGTATAATTTCATAATTTCCCCATAATTT

TABLE 1A

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ATTAGACTGCTTTCTACATATCTAATAGACACTCCTTTAATTTTGGACATTTTAAGTTTT
AAGGCTTTTTTCCTACTCCACGATGAA

Sequence 3862

CCCTTAGCGTGGTCGCGGCCCGAGGTACTGGTGGAGTTGTGGTTCGCCCCCAGGCTGTCA
CAGAGCANTCCTACATGGAAAGTGTTGTGACTTTTCTGCAGGATGTTGTGCCACAGGCTT
ACAGTGGAACACCTCTAACAGAAGAAAAGGAGAAAATAGTCTGGGTCAGATTTGAAAATG
CAGATTTAAATGATACATCAAGAAATCTGGAATTTCATGAAATACATAGTACATGAAACC
CCAGATAGACTATAAATAATTCTAAACAAACAAGTAGGTAGATATGTATGTAATTGCTTT
TAAATCATTTAAATGCCTTTGTTTTTGGACTGTGCAAAGGTTGGAAGTGGGTTTGCATTT
CTAAAATGGTGACTTTTATTCTGCAAGAGTTCTTAGTAACCTTCTTGAGTGTGGGTAGAC
TTTGGAACATGTAAATTTTTTTGCTTGTAATGTTATCCTGTGGTAGGATTTTGGCANGGT
ACC

Sequence 3863

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATATTTATGAAGTATATGAGATGTTTTG
TTACAATCATGTGATATAAAATAATCATCATGGAGAATGAGTTATCCATCCCCTGAAGCA
TAAATAAATGTAAATTCTGATGTTGAATTTATACACCAAATTGTTAGATTTTAGATTTTA
TCCTCATTTTACTTTGCTTATTTTCTTATATACTGGTAAGATCTTATAGATGCTGTAATA
TAGTAAAATGTAGAATGTATGCCATAAAATTAACCTGAATTAGAGTATTTTTGCATGCAT
GAGGAAGTCTGTTAAGGACAT

Sequence 3864

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGGTGAGGAAATTGGGATCCAATGTCAC
ACTGAGACGTAGTGCAAGAGCTAAAACCCAGGATTCGTAGCACCCCTTTCACCGCAATAT
GGTTCCTCTTAGATGTTAAGACAACTTTTGTCTTTATAGGAAGGAGGGTCGATCAGACCT
GTCAAAGGGAGATAGACTTTTATATCGAAAAGTCTATATCGATATAGACTTTTATATCGA
ACACGATTTAACCTGGGAGGCGGAGGTTGCAAGTGAGCCAAGATCGCACCACTGCACTCC
AGCCTGGGCAACAGAGTGAGACTCTGTATCAAANAAAANNNNANNNAAAAAAAANNNTCC
CTGCCCGGGCGGCCGCTCAAAGGG

Sequence 3865

CCCTTAGCGTGGTCGCCGGCCGAGGTACCTGAGGCCTTTCTGTGCAGCTTAGCATTGCCA
GAAGGCTATGGCCTCATAGTAGTCAAACTACTAATGCAGTTGGCTCAGAGCTCCAAGTGT
AAATGTTTTAGTGAACAAAGTGGAAGTTGCATCATCTTTTATTACCCAGACTTGTATACG
ACTTAGCACCGCTTCTTGCTATAATCCATTACTCAGAGAAATCACAGCCCTCCTAGATTC
TATAATTAAGGAATTTTGACTTCATCTTTGTTGGGGAATTACAAGG

Sequence 3866

CCCTTAGCGGCCGCCCGGGCAGGTACCCTGGCAGGTGAGGTGGCAGATCTCTTGAGGCCA
GGAGTTCGATACAGCCTGGTTAATACGGGGAGACCCCATCTCCATTTGAAAAATTATTTT
TTAAAAATGAAAAGAAAAAGAAGCTAGCAAAGTGTAATAACGCAGTAAGAATGTTACCTT
GACAGTAGATGTTACAAAACTACTTCCATGAATTTTAGGAACAGGGGAACCTGTTCCTTG
GGAGACCTGAGAAGCCGTGGAGATCTTGTTTGTAGGACTTCCTGATAAGCAAGGCACAAT
TAAAACATAAACAAAGTAAAATTTACA

Sequence 3867

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACATCATTATAATCCACATCATTAATCATC
AGGGAACTGCAAATTAAAACCACAATGCGATACCTCAATGCATCCACTAGAATAGCTAAT
ATGGAACCTAGGAATCATTGTTAAATTTATTGAAGAAGTTAACGGGGCATAATTGCTGGG
ACCAAAACTAGAGTGAATGGCTTTATATATTTTGGAAAGATGTTGGAAAGCAAACTGCAT
TTGCATCAATGACAATGACAATAGTAAGAGGAAAAGAGGCTACTCTTTCTGTGCTCACTC
ATGTGCCAAGCACTGTGCCTTACATCCATACACACACACGCATGCACACACACACACACA
CACACATATTACACACCCAAAGAAAACACATTCAGAATAGAAGCAATGGAATAAAGAACC
ACTNAAATTAATTATCAAGACTCTAGATTGGGGAAAATGTNGAAAAAAAATCAAGACTTT
TCAGNCTATAGAAGACAAAAGCTTTGATAGGGTTTNCATTTAAGTTTGCCAAATTTTTAA
AAAATTTN

TABLE 1A

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Sequence 3868
CCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGGGTGTAGTCGGGTATGAGAACGATTGCA
AGCAAAAGCAGCTGAGGGACGCTGTCCAAGGAGTAGGCTCAGTAGCACGAACTGCAAATA
CTTGAGAAGGGAAAAGTTCAGCCTTGTGCTGGAAAGTGGTTTAGCATGCTGGAGCTGGTT
TTCTGCTTGGTAGCCCTACAACTTTGGCCCAACTACTTGGCCTCTGGGACTCAGATTCCT
CCTCTTTAAAATGGTGCTAATAATAGCACCCACCCTCTGTGAGGAGGATGCTGTGAGGAC
AAAATGAG
Sequence 3869
CCCTTCGAGCGGCCGCCCGGGCAGGTACAGTGCACAGATGTTTCACATAAAATATGTGAT
CAGTCAAAGTCAGAGCCACCCTTAGAGTCATCTTTTAACAATCTTGAAACAAACAGAGTT
ATTCTAGAGAAAAGTAGTTTGGAGCATGCCACTGAAAAAAGCACAGCTAACGATACGTGC
TCGTCAGCTGCTATTCAGGAGGATATTTACCCTCAGGAAATAGATGCATCCAGCAACTAT
ACTCCCCAAGATCCTGCAAGAAATGAAATCCACAGTGATAAGGCACCTGTCTTATACCTA
CATGACCAGCTGTCAGAACTTCTAAAAGAGTTTCCTTATGGCATTGAGGCTGTGAATACA
CGTGAAGGTTCTGTGGGCCAGCAAACTACATACCAGACCTCAGAAGATCAAACTGCTGAT
AAAACCAGTTCTGACTCCAAAGACCCAGCAGATCAAATCAAATTACAATATTAAGCTCAG
AGCAAATGAAAGAAAT
Sequence 3870
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTNTTTTTTTTTTTGGANAT
GAGGACTTGCCATGTTGGCCAAGGCAGNNTTNAACTNTTGGCCTNAAGCAATTTTCCCAG
CTTGGCCTNCCAAAGNGCTCAAATTACAGATGTGAGCCACCCTNCCCAGCCTATATGCTT
TATTTAAAGCCCTAATTGTNTCAACAGTGAGGAATGGTAAANAAAATTATATTAGATGCA
GTAAAAAGAGAAAGTTACTAGTAAGCAAGAGATCTGGGTTCACATCCTGACTCATCTACT
TACTAAATGTATAAACTCAGGAAAGTTAAATCTGAATTAATTTCCTTAGCAAAATAATGC
TTACTTTAAAAAGTTGTTCTAAGGGTTTAAA
Sequence 3871
CCCTTAGCGTGGTCGCGGCCGAGGTACATAACTATCTATATATTTTTTTTCTTTGGGGGA
GTGTGTAGAGCTAAAGGCTGGTATATGCTGCTCCTGCTCCCCGAAAGTGACATTATTCCC
CTAAGCTAATATTTCAGGCTTTCAATTTATTCGTGGTTTCACCTGTTTAAACATAAGTAG
AAATTACTTTTTCTCTCCATATTTAGATTTGATCTATCTACTTTAATTGCTAATAGTGTC
TTAGTCATAGAATAGATTAGTTAGAAAAAAGTGTTTTTGACATTATAAATGATTCTTTCA
ATTTGTGTCT
Sequence 3872
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGCTCATGACAGGTCTGGACTCAAAGATGCA
TAAAGTGGACAAAATACAGGCAAGACAAATTCTGCTGTCAAGAACCTGCTGGGCTCCTCT
CTTGGGGGGCTAACAGCGCAGCTAGGTTGACAAGGCAGGAATTTAGGCACAAGAGAATTG
ATAGCCATCTACTAAAACTAGAGTTTGGGGTGGGGACTCTGTGCCATGAACAGGGCAGAA
ACCCAAGTCAGAACCAAACTGATGCTGGTAGATGCCTTCCATTCAATCTCCTTCACCTCC
CGATTACAAGCCTGCAATGAGACGGACCAAGAGGTGGAAGATGTAGGCACCTCGGCACCG
TCTTCATTGATTTGCTCCTTCATTTAGA
Sequence 3873
CCCTTAGCGTGGTCGCGGCCCGAGGTACATGTTTGTTTAATGAGGGGATACATGAATACA
GAAGCAGAACTAATAACTGTAATAGATTTAGAGGACTATCTATGGACTTTATTTTCACAA
AATTGCACAGTCCTTTGAAAAGGAAGTTGGGATAATGAGAATACCTTATTTCCCCTCAAT
GTGGAGCTGGGATTAAATGTCAGCATTGCTGGGATTATGCAATACATACTAAAAAAAATT
ACCCTTTTGCCCCTGATCTGATATTCTTGAAATATCTGGACAGAAACAACATTTTGTATA
ATAAAAAAAGTTTTGTCTGGAAACTGCAGGTTCCATACCAGTAGTCACTATGTAGCTAAT
AAGATTTGGAAATTGGATTCTTATTAATACAGTTATGCTCCACATAATGACATTTCAAGT
CAACAATAGACCACATATCTGTTGGTGGGTCCTACAGATTATAATGGAGCTTGAAAAATT
C
Sequence 3874

TABLE 1A
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CCCTTTCGAGCGGCCGCCCGGGCAGGTACCATTGGTAGTTGTTTATGAAATTACCAGATA
TTCATAAATGTGACAAATGAACAGCAGGATTATGAATTATCAAAGGAAAAAGTATTTGCT
GAGGTGAAAAAATCTGATGTTTGAGGAAGTTTTTATTTTTATTTATTTGTTTTGTTTTTT
TTTTTTTTTGAGGCAGACTCTCTGTCGCCAGGCTTCTCCTGCCTCAGCCTCACGAGTAGC
TGGGACTACAGGCATGCACCACCACGCCCAGCTAATTTTTGTATTTTTAGCAGAGACAGG
GAGGAAGTTTTTATTTTTATAAACAAAATCTGATGTTCAGAGGCCCCGTTTCTTACAATA
AATGTGGAGTCTTAGTTAAGCAGGAATTTATGAACACCCATTTCCTGACTTTTTGCTTTA
ATTTANATTTTTCTCCATCCTGTTTCTAGCACAAAAATTTGCCTGCTGTGTTACAAAAAT
AAATTTATGTTGGCCTGTGCCATAAAGNGATATATTTAATATTTTTATTCTTTGGGGTTT
GAACATTGTAAAGTTNCTAAAAA

Sequence 3875
CCCTTAGCGTGGTCGCGGCCGAGGTACCGTTATCTAAGACAGGACAGTTACTGGACTTAT
CTTATGACAAAATTATATATAAATTAGGCAAAAGAGCTACATATAAACCAGAAATGGAAT
CTAGATGTCTTATTCTCAGTTCTTCTACCCTTTCCTAGCGACTCCTTGAAAAAAGAGTAA
GTCAAAATACTTTTATATTTCTCGCTATAAATAAAATTCCCTCACCTATGTATGAGTGAA
CACAATGCTTATTACTCCTACCTTAACCCATTCAAAATTGTTCATCTCAGATATCTGATT
TTTGCTTTGGAATTTAGTGAAATCAAATAAAGTAATATTTAGAAGAAGCTAATATTTTAG
TAAGTAGAAAACATAAAAACTGTATTTCCTATCTGGGTTCATCTTTGNCTCTAAAAAAAA
AATTAAAAAGCCAGAAGCAATTAATACCTTTTCAATTTTGATTTTAAAAAAGTAGTTACA
GAGTCAAGCAGNTATGCCCAAATATGCCATTTGTCCTTACAGGCTCATGATATCNCAGAG
AAAAGGGAAAGGGAAAAA

Sequence 3876
CCCTTTCGAGCGGCCGCCCGGGCAGGTGCAAAATGGCTTTCTTAATTTTAAACTTACACA
TCACTTAAACCATTNCTAAACAAATTGCAGTTAGGTTACTGACTTCACTAGTGCTCCAGT
ANCANAATCTACAATAAAACCAAAATTCAAAATAGGCNTGGTTTATTCAGAACGTTTNCA
TTTTGGAAATGGCAATATGGTAAGGTAAAGGTCACCATAGGAAGGGGAANTGGACGNTTC
TACCGTNAACCATTTACTCTNATNNGTAAAAGGGAGGTGNCTTTGGGTTCAATCCTATTT
TTTCATATAAAACCCATTAGTCCTTTGGTTCTGGCTAGGTATGATNGCCGTCCGCNCAAA
GTATGGTTTCATNTTTCAATNCCCACNTTCCTNGGGGAATTTTTTTNTGCCTAAAANATT
NAAAAAGAGGAAANAAAAAACCGTTTTTTTTTCCCCCAATTGGCCAGGAAAANAAGGAAT
TAAAAACCNCTTGGAAATTATTCCAAAATAATTTCCAACCAAAAATTGTTCCCAAAATTT
TTAAA

Sequence 3877
ATGCATGCTCNAGCCGGCCCGCCAGTGTGATGNGATATNTGCAGAATTCGCCCTTNCGAG
CGGGCGCCCGGGCAGGTNCTTTTTAATTAGTTACCANTACTCTTAAAAATACAGAAAACT
CCTTATTTTGATATATCTGAAAGTTAATAGAAGGAAGTAAAAGAACAATGAANATNATTA
TACTTGAAATGTTTTATGATTGNGTTTTTCTCAAAATTATTTCTCAATTTTCTTTATAGA
TAACATATTCNCAATAAAATCTTGGGCCAAAAGAAAATTTGGGTTTGAAGAAAATAAAAT
TGATAGAACTTTTGGA

Sequence 3878
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGATTTTGAATACTTCTATCCATTAT
GTAAACATTTATCAGTAGAAAAAGGTGGCAGCTCACACTTCTTTGTATAGCATTTTAAAA
AGCAAACAAAAATATTTGACCATCCAAATTGTTTTTTTCCAAAGTCCTTTTAAATTCAAA
AGGGAAAATAAGATTATTAAAGGTTTGATGTTTTAAATCAGTGTTTCATTACAATTTAAC
AAATACCATTGACTGCCTACTTTGTGCTAGGTTCAGCAATAGTGACTGAAATACTGTCTT
TGCCCATTTACAGAATTTAATACATGATTTAATATTTTAATGATAATTATAATGATTTCA
GATACCTCTGTTTGCTCCATGGATGTGTTATTTATCATTCATGACTTGCTTCTNAAATTG
AGAGCNCATTACTGTTTGTCATANAACAAGTCCATATAACATGCAAAATAATATTTTTTA
TTTAAAATATAAGGTTATTCCCTTTCATGGATGGTTTCTTNTAAAGATACCTGCAGGCCT
TAAANTTTTTTT

Sequence 3879

TABLE 1A
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CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTCACACAGTCAGGGGATGAGGATCTGA
TCCGAATTACATTTTGTCGAGTCACTCATTCCCACAGATTTGAGTTTGAATGCAGCTTGT
GGGGTACTCATGAATTAGTATAGTATTCAAAGCAAATATATATATATGATAGTTAAGGAA
CATTTTGTAATATTCATATGACACTTAAATCTATGTATATGTAGGTCTAGTTCTAACATG
TAGCATAATACCAATATAATTTTGTGCAATAACAATTTAATTTCTCTTATGCTACTTTGT
TACTAAACTTGAACATATATGCA
Sequence 3880
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCGGCTATCTTATCTTCTTTATATAGATATC
TAATAAGATGTAAAATACTGACCTGCATTATCTCCATGTTAACATTTACACTTCAAAATC
TGTAAACGGACCCACGTTCATACGCGTGAACAGAAATCTTTCAGCAACAAAAGAGAAAAT
TGTATTTCTCGATAGAAAGGAAGTGGTCAGATCATGCCAGCCAAACAAATCTGTCAGGCT
TTGAAATATAGAACCGTTAGGTAAGATACTGAGAAAAAGGATAAAGTAAGATCAGCCTAA
ATGTTTCAAGTCTAGTTAAGTTGATTTGTATATTACTTAGAAATTTCATTTTCAGGGAAA
TAGTTTTCAGATTTAAATAACTGTAAAGAGCTGAGTTATTCTTTGACTTGGATTTAAAAA
AAA
Sequence 3881
CCCTTTCGAGCGGCCCGCCCGGGCAGGTGCATGGGAGGGCAACCTTTACTGAGTAGCTAA
TATGTGGGGGTCACTGAGCTAGAGATTTCTCATGTTGCTGTAGTGAATCCTCATGAGTCC
AACGAGGGAGGTCCTCTTCTGCCATTTAAGAGATGGCTGCTTCTTAGAGAGTGTATACGA
CCTGCTGAAGGTCACACAGCTGATAAAGTGGTGGGCCAAGATTCCAACTTGGGTCTCTCT
GAAGATCTGGCAAGGACCTTCTTGCCAGTTCCCTGTGCACCTTCTTTTCTTTTCCCTTCT
TTTTCTAGGTTAGGGAAAGAGGGAGAAGGAAGTCGCTTATTCTACCTTTCTTGATGAAAG
CTGGGGGGGAAAGGCAACACTTAAAGCACATGGCNGAGGAACTTTGGGGAACCAGAAAGTT
TTTATTTCCTA
Sequence 3882
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATACTTTTTTCCCTAACCACAACAATAGCAG
CTAAGAGGACGCACANAGAAACAGAAACTGGGGTATAACATGAAAATGTAGACAGAGAGT
GACAACAGTGTCTGTCGTCTTTNACAGATTTAAGGAAAAAGAAGTGAAATACAGTCGTGG
GGCTGGGGATCAGTTATAAGGTCTCATTGGAATTTAATGAAAAAGTATAAACCCACATAC
CCAAGGTGTTTAAAAAACTCCAGG
Sequence 3883
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTAGNAGT
AAAATGGAAAACAGGCCTTAGAGAATTGTATTCCTCAAGGCTCTGACTGCCTGCTTCCAA
GCTTTTGTTAAAGAACAGAATGTGTTGAATTCTTCTCAATTGGCAGGGGATCAAGCACAA
TACTACATAATGAGGTAGCTGAGAACAGAGTTTTTCCTATAAACACAAAGAACAACTGAA
TAAGTGCATGTAATTCTTCATCCAATTAAACAGGAAACATGATAAAGCAAGTTAGTACCT
CGGCCCGCGACCACGCTAAGGG
Sequence 3884
NCCNTTACNAGTTTTCNTCCGGGCAGGTACTGGCCGGAGGAACCCNACCAGAACAAGTGG
ACTNATGCTGGAAGCCATTATGGAAANNNTATGACATTCCTCAAAACATTAAAAATAGAT
CTGNCATATGATCCANTAATCCCTACTNNTGACTGNATATCTGAAGGAAACAAAANTTGG
CTNCCTTGGAGAGATCTCAAAGAGATATCTGCACGCCGGGTNCANTGCAGCATTCTTCAC
AATAAGCTAATATATGGAAACATTCNATATGTGCACCAATGGANAAANCAGATAAAAGAA
TATGTGGGNATATATCAAANGGAANGGAAATACCNATTTAAGTAATTAAAAAAAAGAAGG
GA
Sequence 3885
CCCTTAGCGTGATCGCGGCCGAGGTACCTTAGCAAACAAGTGGAAGGATGGGAAAAGATG
AGGCCAGACATGTAGGAGGGGCCAGATCATCTGGGTCTTATGGCCATTTTATGGAATTGG
GTGTGACACGGGGGTGACATCAGAGAGTATCAAGCAGAACACTAATATCACCTAATTTAT
GTTTTTAAAACGTGAGCCACCATGCCCGGCCTGAGACTCTGTCTTAAAGAAAAAAAAAAA
AAAAAAAAAAANGTNCCTTTCANAACCTGCAGGAGCAGATCAATCCCCTCTTGGTAACAC

TABLE 1A
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ACCAGAGCCTGCGGATACCGC
Sequence 3886
CCCTTAGCGTGGTCGCGGCCGAGGTACATATAGAATAGTATAAATACAATAAATGTTTGA
ATTATCGTATAACTAGAGTCTTATTTTTAAGTTAGTATCCTGTATTAAGAACTGGGTTGA
TCAAATGGTTCTTTCTTTGCACATATCAAGGCTTTCGACTATTCCCAATCAGGTCTTCCC
AAATTTGGGCATATTCCTGCCTCTGCCTACCCTGTTCTAATTTGGCACTCTAAAGATAGT
TCATAAAAAGCAAGCCAAAGATAGAAAAGAGAGCTAAGGCTACAGGAGGAATTTACTCTT
TAACATTTGGGGGAAGGAAAATGAGGCTTGTCTACAGCAGGGACTGGCTGTCTTCCAGAA
ATGGTTTCCCAAGGTGTTCCCTACCTCTCTTTTTCTTGGATATCTTTTTGCATTATAGAT
AGCCTTGGGAAGGGGTGTCACCTTTATCCTATCAGTTCCACCTAATCAACTGTAGTCATC
TGAGACCAGAATTATTATTGATAGAAGGGGCCTGGGAAAGGGAGAAAAANGACCNAGGAN
AAGAGGAAGGTTTACTTAATTGCAGAGGAGAAAAGCCCAAAGAACCGTTGCCCCTTGGGC
AGTCTTAAGCTATTTAAAA
Sequence 3887
CCCTTAGCGTGGTCGCGGCCGAGGTACCTGAAAAGAATATCAACCTGAAAAGAATATCAA
CTCACCCAGAAATTAGTTCTTTGAAAAAAAGAAATTAAGTTGTGAATTTCTAAAGACCTT
GAAATAAGTGTTTCAAATTTAAAGAACAAAGAATGATGTGAAAATGAGATTATGATTCCT
ACTACATGAATTAACGTTTCGAGATTGCTGTTTATTACTTCCCAGAGTATCTTTAACAGT
ATTCTCTGAAGCAGTTCCAATCTAGTTGGAGAATTAACAGCAATTGATTTAACTATCTCA
TTTTTATTAACTGTAATTTACATTAAAAA
Sequence 3888
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTNCNTTTTTTTTTTTTTTTTTGTGCCAGAAT
CAAACTATTTAATTAAATGTTTAAAATAATACAATAATCANTTCGATTTATTNCATCNCA
ACNAATNTCTTATTTACCTTGTGGACATATTTTAAAGATTAAATGANATAAAAAAGCTCT
ATGCCAATTAAGGGCAGTTTTATATAAAACAGAATTAAAGTTTTCACAAATGTCAGCATT
ANAAGAACGCTGAATGAACATNCAACCAAACCCTTTTATTTTATCAATGGAGAAATAAAG
CTACCTGGAGACANATTTTCATCAAATGATCATGTTCCCATTTTAGATATTTCAT
Sequence 3889
CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATCAATGGTCAGTCTGTAAAGTCCAGCACC
TTTCAGAGTAAACCATCTCACTCTGATTCACTTAAACAATTTAGATACACTAGTAGGAAG
GTGAAGTCCCTTTTTTGGAGGGGGTGGAATAAGCAAATGGATGGATACATCAAACCAAAA
GCAGAAGAAACACCTACATTTTTTTTACACGGTGAAATGAATAGTTAACAACCCAGTTAT
GTCTTTTGCCCCCTCCCGGTGGTTTAAAAAGCGTAAAGAGCGCAGTGGGAATATTTTGGT
TTTGAAGCCCCTTGCACAGGGAA
Sequence 3890
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGCCAGTTTTGAGATATACCTGGTTTGCTT
TAATGTTATTAAATTGTTTTGGTGAGTTTTGCAAATGGACAATTGAACTTTGTTCTGCCA
AATTCTTTTTTATTGCATTTAAACTTCAGGGTTTTTTATTTCCGGCTTATTATGAATGGA
TTAGTCATTTTGTGAATATAACTCTTCATTGAGTTTAGGGAGAAATAGGACGTTAGATCC
GAAGATGCTATTTGTTTAATCACCAGAATGGACAAAATTATACTTCATTTACTATCAGGG
AGGCATGGGGAGAATAGAGGTCTAGGGGTGCCGTCTTGTGGCTCTTACTGTTTTTGTGTA
TCTGGGTTTTTTTTTTTGAGAGGGCTTCCCATTATGTTGCCCGTGCTGGACCCCAACTCC
TGATTTACTGGCTCTAGAGATCTTCTCGCCTCAGTCTCCCAAGGGA
Sequence 3891
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATAAAAGAAAGATGCACATTCTAACCCTGTA
TCTTCTTGAATACCTTTTCTAGTTCACATATTATTAAAGCAAGAAACATGTAAGCCCTCT
CTTCCTAGTCCTTAGGTTGGCAATACTGTGGTGTCAGTAATTTATAACATGCTTTCTCAT
ATATAATAAGAAGCACTGGACTAAAGAGTCTGCTGGTTTGACTCTTCACGCAAGTCAATT
CAAATTAAGTCACTGTGCCTCTCTGAGCCTCAGTCTCCCCAGGTGTAAAAAGGGAAAATA
TGGTCAACTCTTCTGCGTCCAGTGTTGTAA
Sequence 3892

TABLE 1A
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CCCTTTCGAGCGGCCCGCCCGGGCAGGNACTNTATNTTTTNNNTNNGTTTTATTTTTCCT
TCTTGCTTAATCTCCCTCAGTCACACAGACCTCTTTGCTCTGTCTCTCTGTATGCTGAGC
ACAAGCCCACCCTAGGCCCTTTGCACATGCTGTCGGCTCAGCCTGNAGTATTTCTCCTCC
AGTTAACTCCTTGGCTAACTCTTTCCTTTCCATCANATGTCTTCCCAAATGTTCTCTTAT
CAGATAAGCCTTCTCTGGNGACCCTNTATAAAATAGTATCTCGGCCAGGCGNGGTGGTTC
ACACCTGTAACCCCANCACCTTGGGATTGCAGGCGTNAATCAGCGCGCTTGGCCCCTGTA
TGCATTATTTA

Sequence 3893
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAATATTTGGCAAAGGAATGAAAAAAGTTAG
AAAGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCAAGATACTTACAATCTAGGTCAGAGG
TTCCTAAATCCTTCTCAATGCTGTTTGCACTGGCCCTGAGGAAAGTGTGAAAATGAANAC
TATTGTAGAGTCTTACATGAAGCTAAATTTGTTCATTTATATCACTTCTCTTTTATTATG
AGATTATGTCCTCTGCAGTTTTTTGGTATTAAAATGTCTTTTATGAAAGGATAGTAAGAG
TTAGATAGTANGTCTTTT

Sequence 3894
CCCTTAGCGTGGTCGCGGCCGAGGTACCATACAGAATAAAAATACATTTGAGAAAAACTG
GAATAAATCTCCAGCAATCAAACCAATTACATTTAATTTTTCAGAAAACAGTAAATTTTA
AAACATGCCTTAAAATATTAATGGCATAAATATATCTTCAAACGTGTGCTTACAAATTAC
AAAATAAGTGGCAAAATTGTCAAAAGTAAAGTTTTACTTGTTATTAAATTGTGATCAACA
TTAAAACAAATACAAACACACAATGTGAGAAAGCGAGGACAGCAGATCCATAGCAAGTGA
GGGGGTGTTTCTGTCATCCCTATCCCAGGGTAAATATCAAGAAGCAATCATTTCATGCCT
ATGGGCTAGTGAAGAAAAAAAAAATCAATCATCGCACTCTTCCTCCCTAGGCCAAGATAA
ACCCTCGGAATCATTTAAAAAAAAAAAAAAATACTTCAGGAGGCCGGGCGTGGCAGTTCG
CGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCNGGTGGATCACCTGAGGTCAGGAGTT
CAAGACCATTCCGTCTNTTCCAAAACAAAAAAAAAA

Sequence 3895
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACAAAGACAGAAGCTTCACAGGAAGAGCGG
TCTGATTCAAGCGGCCTCACATCTCTCAAGAAATCACCAAAGGTCTCATCCAAGGACACT
CGGGAAATCAAAACGGATTTCTCACTTTCTATTAGTAATTCGTCAGACGTGAGTGCTAAA
GATGAGCATGCTGAAGACAATGAGAAGCGTTTGGCAGCCTTGGAAGCGAGGCAAAAAGCA
AAAGAAGTGCAGAAGAAGCTGGTGCATAATGCTCTGGCAAATTTGGATGGTCATCCAGAG
GATAAGCCAACCGCACATCATCTTCGGTTCTGACAGTGGAATGTGAAAC

Sequence 3896
CCCTTAGCGTGGTCNCGGCCGACGTNCCNCTAACCTCATTTTGCATGTGAGAAAACCAAG
GCTCTAGGAGGTTAANCANCTTTNCCAGGGTCACACAGTTNGCAACTGGGAAAGGAAGAA
ACTCANGCCCGGNCAGGTCTGACTCCAAGACCCATGCTNCTCACTTNATATCACCCCTTG
TCCCTCCTCTTCATCAACCTTGCCCTCCATTTCCACTCCACCAATCTTGGNTCAAGGTGA
GAAACTGGGATGGGAATGAGAGGATGAAGAAAACTAGGTAAGATGCAGGNACAGGTTGGG
AAAAAATAGTAATGCATACAGCAGATGCAGGGGGAAGTTGGGAAAAAAATA

Sequence 3897
CCCTTTCAGCGGCCGCCCGGGCAGGTACTTCTTAATGCTCTTGCTACACTATCACCAACA
ACAATCACACTGGCTACCATGTCTTTGGACCTACTGAGTGCCAGGTGCTGTCCTAGGTGT
CTTGCAGACATTAACATATGTAGTTTAACGTTCAGAGCAATATTCCATGGCAAGTTATAT
TATCCCTATTTTAAGATGGCAAACCATGTAGCATGTGTACTTGGTCATGTTTCATACTGT
TTTCAGAGGATGGCTAGGAAACCAGTGTTTATTCTACAAACTTGATCCTGCTTGGTCTCA
AAATGATTTTTCAGTTATATTAAAGTGGCAGCCAGTTCATTGACTACCATGGAATTAAAA
TAAGAGAAAGTGGCAAGCCTATTTTCATCATTCTGATGTAAAGC

Sequence 3898
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCCTCTCTTTTATGC
TTGAAGCAGCCTCACTTCGGTTCTAGTTTTTGAAATTTGATTAAGTCTTATTCATTTTCA
CCATGCTCTTAATGATTTTATTGATTTTAGTTATATTCCTTATTCACGTTCATTTCTTTC

TABLE 1A
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ATTCAGAAAGTCCTGTTATCCTGAATAAATCCAGTCTATAATTGTGGTCATTCAGTTCTC
TTTTGCTAGATCTTCTTTACCTCTACTCTGTTCATCACAGGGGAGTCCCGCACTGACTCC
AAATCCATGAATGAAAGAGATGTCCATACACCATAGAAATTGTCTACACACTGTTATTTC
AAATAGANGAAGCACTCACAAATCCATCACCATTTCACAACAACTACTTTCATTGNCTAC
AAGCACTTTTAAGGGGCTGGTTGGTTGGT

Sequence 3899
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCCA
AANNNNAAAAAAAANGGGNAAAANNNNNNNANTTCCNNNGNANGGGNAAAAANNGGGGGN
NAAAANGGGGGGGNTTTATTNANACCCNANCTCAAANAANTTTNTNCNGTTAAAANNTTN
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Sequence 3900
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TGAAAA

Sequence 3901
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Sequence 3902
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Sequence 3903
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TAACTAAGTGCAGATATTCAAATCCAGGAATAAGTGATCCAAAAGCCACTAGCCTATGTT
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GAGAGGCAAAATCATCACTCATTATCCATATCTCAGTATTTTCTGCAGTCCCTGATGCAA
AATTAGGCATGGAGTAAATATT
Sequence 3904
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TAAAA
Sequence 3905
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TAAAACTTTTA
Sequence 3916

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Sequence 3917
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Sequence 3918
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Sequence 3921
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Sequence 3922

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Sequence 3923

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Sequence 3924

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Sequence 3925

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Sequence 3926

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Sequence 3927
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CACCTCTTTTAGATTACTTCAGTGGCTATACTGCAATCATTGACTTGTGTCTGCTCCACT
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Sequence 3928
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TTTTAAAAAATTGTAGAAATGGCATGTTATCTTTTCTTTATATATTTTAAAGATATGCCT
TGTTCTTAGCAGTTTTTTTTTTCTG
Sequence 3929
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Sequence 3931
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Sequence 3933
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AAACAAAAGT

Sequence 3934
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Sequence 3935
ACACATNTGNGTCTAAATTTCCTCTTCTGNAAGGACACCANNCCTATTAGATTCGGGCCA
CCCAGATCACCTCATTCTAACGTTTCCTNTTTCAAGCCCTTATCTCTAAATACAGTCCTG
TTTCTGAGAGACTANAGGNNGGGACTTAAACACATGATTTTTGGGAGGATAAACTCAGCT
CATAACACGACTCGGTAAAGATTCATGGAATGGATTAATTAACAAAGTGTGTGCTCTTGT
TTAGATTAGGTTTGGGCTTTTGCTTTCAAGGCATGGTTTAAGCCAGACAGTCCTTTTGCC
AGAACTCACTTGCTGGTCCCCCTTGCTTCTGGGCACCACTGCTGCTTCGACCCCCTCAGC
AATGGAAAGTTCCCTGGG

Sequence 3936
CCCTTCGAGCGGCCGCCCGGGCAGGTACATAGGCGTTAATGTTCAGACTTTTTTGTTTTC
ACTTAAGTATCATTGTTGTGTCTGAAATTCTTTTCTATTGGAGAATTAGGAGAAATCCAG
TTTTGGGCACTCTGCCTAAGGAATAGCCCTTCTTTTATTCCTTTACTTTCTTAATAAACT
TGCTTTCACTTAAAACAAAAAGTCACTGCAAGTTGGGCTGTCTTATTTTTTTAAAAAATC
ATCAATTAATTAATTCTATTTATTTGCATGGAGCCCATCTACACAAACCACTGGCACTTT
GGACGGGGCATTTAGCTGGCTTTACCCACACGCTTCTGCCCTTTTATGCTTCATCAATCT
CTGAGCCCACCCAAAAGCCTCACAGTTACTGGGACTCCCACTGCTCATTATTCATCTCCC
CCTAAATCCACATCATTTGGCAATTTCAA

Sequence 3937
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTTTTTTTTGGCTATTTCAATTTGCATATT
TGAAAACAACTGAAAAGGCAATTAATTCAAATCTAAATAACTTCCATGCTCANAATTATG
TTTATGGTCTTCCAGCANACAAATTTATGGGGACGTCTGGGGACCAGGCCTCTGACACAN
AATAAGCATCAGTCTCTCCTANANACTAGTTGCGGGTTTATTTCTGAAACTTGTGTGGAA
TGAGGGAGCAAATCTAGAATGTTTAAGACCTAATAATAATCACACACTTTAACACATTCA
AATCATGATGTTGCAGGAGACAGCCTTGGCTTTGCTTATAGTTCTAAGCAGGGCTGTTCC
CAGAGGATGACTGTCCTTCCGAGGAAAGAAGACACAGAGCTGGTTCAATCCCAGGGGAAT
GTCTGTCATGGATGAAA

Sequence 3938
CCCTTAGCGGCCGCCCGGGCAGGTACGCGGGGGTATTAAAGCAGTGGCAGCCGCTGCACG
CAGACATGAGGGCTAGGCTAAAACAGTAAAGTCAAGTTGTTTGGACAGAAAGGCTACAGG
GGGCGGTCCTGGCTCTTGGAAATAAGCACTTGGAACAGAAAGGAGCTCTACCCAACTACC
CGGAATGCAGGCGGGTCTGGGACTATGTGACTACCACCCTCTAAGTGAGGTTTTGAAAAT
AAACACTTGAAAGTCTGCTCAAAAAA

Sequence 3939
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTATATTAAAGCAAGCAGCTCAGCCTCTCACT

TABLE 1A
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AGTGGTGAGATGTATGAAAATCCTGGCAATGCCAGGGGGAAAAGAATCTATGAGTCTTCC
CTTCNGACATCTCTCCTATTTCTTGCATTAGTNTTTTCAGGGTTAAATACACATCTCACA
GAAGAGCTAGCTATATATGGGCTGGGTGGTCTTCAGTGAATCTGCAAATGTATCAAACAA
AAATAGCAAGCTGGAACTGNAATAAAGGGTCAGGGAATACAGGAAAGAAGAAAACAAAGG
GTTCTAGGTGTTCATGAAGTCAAATACATCTTCAGGGCTTAAAAAAAAAAAAGTAAAGTA
CC

Sequence 3940
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATACAAGTGCGTGTTTGTTATTATGAAGGAA
ATCCTATCACTAAATACAGAAGCTACTCACAGAACACTGATTACTTCAGTGGATAGAGGA
AAAATATCAAGTCTATTTTTAGTTCTTCAAATCAAGTTAAAGATTGACAACATGACTAAT
CTCTTTTGTGATGTGTTAGAAGACTCCCTCTACCTACCTGTTAAAAAAAAAATGACTTTT
TTTGCAATTTTTTGCTGTTTCCTTAAAACTAAAGCTGTGTTCTTCTGTTTTGAAGGGTTT
CCGCCCCCAAC

Sequence 3941
CGGGCAGGTGTCGACCCACGCGTCCGTGGAGACACACTTATAATCTCAGCACTCAAAAAG
CTGAGGCAGGAGAATTGCAGCAGGTCCAAAGGATTGTCTGGGCCACATAGTGATTCGTTT
TCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCACACACACACACAC
ACACACACACACACACACACACACACACTAAAGTGTAGCTACTTGAAAGACCT

Sequence 3942
AGAATTCGCCCTTAGCAGTGGTCGCAGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTACTAAGTTATAAAAAAAAACCCCATCACCAAAGACACCTGNGCACAAGNGT
CTGTCCCTTCTGNCACCAACCTAGGGCACTAACTCCTAACACTGGGAATGGACACTTGAA
GGAAGATCAGNAATTATCCTGTCTTTTCTCTACAAATTGCAAGTCAGGGAAACCTTGTTG
ATTAGGGAAAGNTCTTTACATAAGAATTCCTGCAAGNAAGNGAGNAAAGAATGACAGNNN
AAGAATNGNCCCANCCTGG

Sequence 3943
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAAAACCACTTCCAGAGTCTAAAGCAGCTC
AGATGTCATCTCTGGGGGAATTAGTGTTCCCCTCATTTAGCAACCTCCATACCACAAGGT
CTCTGTCTGTAGTTACTGGGATTATCCAGATACACTATCAATGATACAAATTCATAGGAG
TATTAATGCATTTCTTTAAACACAACTTGATTAAGAAGCAAATATGTTAAGCAGTTTTCT
TTTTCTGCTGCTAAATTACAGTTAGACACTTCAGTATCTTCTCTTTACATGTGTATATAA
ATTAGTAAGAACCTGCATCCAAAGCAATGTAGTGTGTGTATGTATCTATATATATTTATT
CTAACTCAGCACTTCAAAAGCCTTTTTGAGTTACAACAATATTTTAGTTTGCCTCATCTG
GTAGAGGTAAAAATTTCTATATTACCAAGCTNCAGANGAATATGATATTTTTACAGACCC
AATTTTCTTGGCTGGTANTCCTGGGACATTCATTTGGCTGGGCCTNCATGGGATGCTGGT
AANAACAAATTGGTAAGCCCGGCCAAGANAAAGAAAAGGCTTCCCAGGACCAGNCTTTTA
NTAATTTGGTAGAAAANGGGAGCCCTTTTTTN

Sequence 3944
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AGCGACAACAAAAACCTCCCAACATTCCAATATTTAGGTATTTATTGGTGTCCGAGTTTC
CTGGCAGTGTATGAATACATGGGTCGAAATGAACTGGCCTCATATTATTTCAGGGTAGCA
TGGCTATGATTATTAAACACCACAGACACCCATTTGCTTATTTTTGATTTTTGACATTCT
AAGACATAGACTTTTTTAAAAAATCTTCTTAAGGGGACAAATCTCCTAATTTAAGACCTAG
ATAAACCCAAGATTTACCAGTTTTTGAAAACAGTGATGTTACTTAAATTCACAAGAAACA
CCATTCTCTTTCAGATATAATTACTTCAATGGAGTGCCANGANGGGGTTAAAGGTTACAA
AAATTGGGAAAAATACTGACAATTAGATACTGGCTTACTTGGTCAGAGAAACAATTTTTT
TTTTTTTGAGACNGAATCTTTGCTTTGTCNCCCAAGCTAGAGTGCAGNGGNGGTGGATCT
CAGCTTATTGGTACCCCTGCCTCCTGGGTTTAAGGGATTTTTCTNGCCCANNCCTCCGGN
GTTACTTGGGATTATAGGCNCCCCNCCCCCATGCCCGGGGTAATTT

Sequence 3945
CCCTTCGGCCGCCCGGGCAGGTACTTGCAGGAAGATGGAATTATGAAGGAACAGCATTAG

TABLE 1A
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TTACAGTTGGAGAAGATGGACAAATAAAAATTTGGTCAAAGACTGGGATGCTTAGATCAA
CTTTAGCTCAGCAAGGAACACCAGTGTATTCAGTAGCGTGGGGCCCTGATTCAGAAAAGG
TTCTTTATACAGCAGGCAAGCAGCTAATCATTAAACCTCTTCAACCAAATGCTAAAGTTT
TGCAGTGGAAAGCTCATGATGGCATTATTTTAAAAGTAGATTGGAACTCGGTCAATGATC
TTATTTTATCTG

Sequence 3946
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGCTTATCTTAT
TTTTGAAATGATTTATTAAATGGACACTTTAGGAATTTGAGAGAAGCAGCTTTTCCCACT
CAAATCACTTTGTGTACCTCTGACAGAGAACAAATTCTTTCACAAGGACCTCAAACCTCT
GGGTTGGAAAAAACCTCAGTGGTCATCCGCTCATTCACCCATGCAGCTGGATCCACTGGG
CAGATTGACTTGGAGCGCTATGTGATTTGCCCACGGCTCACCTTCTCCAGTGCGTCATTC
AGGGCATCCGGTGTCTGTATTTTGGCAACATTTGCAATGGCACTGTGAAGATGAAAAGAA
ACTTTGAACAGGACTTAAAAAA

Sequence 3947
CCCTTAGCGTGGTCGCGGCCGAGGTACTCCATTAACATTACTATGACCCCCGGGCACCCT
GCACATATAGCGGCAGTCCCCACCGGCGTCACCAAAACCTTGGATCATCTTGGTGTATAA
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TCATTTGTTCTGATTATGGCTACCAAGGTTCGGTGAAACCCGAGCAGGGACAAGAAATAA
AAATGCCATTTTATTTGGGGAGCCCGTATGTGGGCAGTCTGTCCTTACACAGGTTTCTGT
AAGAACAGATTAAAGCTAGTTTGAAAGTCGTGCCAGATTAGAAAACTTTGTNAAAATCTA
AAACGAAATGTTCCTCAAAA

Sequence 3948
CCCTTAGCGTGGTCGCGGCCGAGGTACCTCCGTGAATGTGTATTCCTAAATNCATGCTGG
CTGAATTCAGGTGTAATTAGANACTGANACCCATAAAATGAGGGGCAAGGAGCTAATTAC
TCTTGTCGGTAACCAGCTGTGGCCATAAGTAACCCTGTTTTGACCCAATTAATAGTAAAT
CCAATTTTTAATCCTACAGACAGTTGATGGTGCACTCGTAGCTGCAAAATGAAGGACATT
AAATTTGGCTGTGACATTGAGTGGTTACACAGAAGACCTGCTTCTACAACATTTGGGAAA
CATTGTGAAACATTACTATTCAAGTTGCTATTTTTCCATCTCAAAATATTTTTTTTTAAG
TTGCTGCTCACTTATGGCCACAGAACAGTCCCTTTTTGAGTAAAGCAGCAAGGTTGCTTA
ATGACATGCTATGTGGTTAACAAGATTCAACTGCCACATCAAGGGACTTTAAATAATTTC
AAGATTTTAAATGTATTTATGAAATGAACTCATTACAGCAGCTAAATCCAATGCAAACTT
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GGGGCTAAAACTTGGTAAAAATATTTT

Sequence 3949
CCCTTCGAGCGGCCGCCCGGGCAGGTACCTTAAAAGAAATACATTTTACTTGAAAATATT
TATCTTTTTTAAATAAGCAACTTATTTTTGCTATAACAAATTTATAGATCTAATATGAAA
TCCACAGGTAACATTTAATTTTAACTAATATGATGAAGTCAGTTGAAAATCTTTGAGTTT
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GCTNACNGNANCCTNGGGCTCCGGGGTNNAAANNATTNTCCNGNTTNACCCNCCCNAGTA
GCNGGGNTTNCNGGCCCCCCCCNCCNCNNAANGCTNTTTTTTTTTTTGGNTTTTTAAAAA
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CCCCCNTGGNCCCCCNAAGGGGNCTGGNTTANCGGGGGGGANCCCAAAAACCCGGGNCCN
AAAANTTNGGTTTTTAANAAAAANGGGANNNTTCAAAANNTNTCTTNGNAANTTAANAAA
AAAAATTTGTTTGGGNAAAAAAAANTTNCCCCGGGTCCCCNAAAAATTGGGGGCCNCCNG
GGGAAGGGGGNCCTTNTTTTTTTNCNGGGNGCCACAAAANNGGGGCCTTCNTCNGGNAAA
AACTTGGGCCCCCCATTTTTTTTANNCNCNANGGGCCCCCNGGGGGGGGGG

Sequence 3950
ACGCGGGGACTGCTGAGCATAAATGCTTTAAAGTGTCAGCAATTGATGTGTGGAGAGAAG
TATGACTGCATTACAGCTTAAAGAGCTTTCACATTCAGGTCTCTACAGGAGAAGACGAGA
TCGCCCCGATAGTTTGAGAGTAAATGGGTTACCAGAGGAAGAGCTAAGCAACATGGCCAA
CGCCCTGGCCAGCGCCACTTGCGAGCGCTGCAAGGGCGGCTTTGCGCCCGCTGAGAAGAT

TABLE 1A

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CGTGAACAGTAATGGGGAGCTGTACC

Sequence 3951

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTTAGGCGGATGGTATGAGGGCCT
CCATTCACACTCTTGCCCTGGAACTGGCAAATGTGAATGGAAGGCTGAGTAAAATCATAG
TTTTGTGTTGTTGGCCTTTGAGTGTTCCATCTCTCTTACAATTTTAGTTTGTCACACCTT
GCACCTTGTATGTGTAAGTAAAATTAATGGCATAGGAAAGAAACCAAAAGAAGTGAACAA
TAAGAGACTAAAGAAACTCTACAGGCCGGGCATGGTGGCTCATGCAAGTAATCCTAACAC
TTTTGGGAGGCCAAGGTGGGTGGATCACCTGAGGTTGGGAGTTCAAGACCAGCCTGGCCA
ACATGGTGAAACC

Sequence 3952

CCCTTCGAGCGGCCGCCCGGGCAGGTACTGGGGGGATGCACTTGAGTGCCATTTCTGATA
CTGTCATTGTATGACTGCTGATGCTCGTTTATGTTGTTCTTTGGAAGCTATAGTGAGCCT
GATGTTTTCACATTTTAAAAAATGCTTCCTGAGACTTCTTTAAGCTCCTCTAACTTCTTC
AGTGCATTTGGGATCAAACTTAGCTCTTAGATCAGCAAACCTGACTTGCTTCTACTTTTG
CAATTTTTCAGGCCTTACCATATTTCTTATCTCTGTCTTCCCACCTGATAGGAAAATCTT
GCAGATTTGAAACAGTGGTTTCTGGCCTGCTGCTGCAGCAAATTCCCTATGTTTATTTAA
GAAGTCGGGCCTATGCTTTTAACCTACAAATGATGAGTAAATTTACTTGCAATGAACACA
GGTAGCCTGCTGCTG

Sequence 3953

CCCTTAGCGTGGTCGCGGCCCGAGGTACAATGGGCAGTGTTTGGATCCTTCCCTGGAATC
AGTGACGAATGCATGGTGTTCTGCCCAATGAGAATGAACCATTTGAACAAATCAAGTAAC
CTCAAAGGTGTAATTCTCTTGGCATCGTTAATGATTATTGGTAGGAGTAAATAAGTGCAA
TTCTTTTGTTGTTCTTTTTTGGAGATGAGGTGTCTCTGTGTTGCCCAGGCTGGCCTCAAA
TCCCTGGGCTTAAGCAATCCTCCTGCCTCAGCCTTGAGTAGCTGGGATCACAGACATGTA
CGCGGGGAGCTCAAAGCCCGCAAGAGGGTTCTGGAAGCAAAGGAGCTGGCGTTACAGCCC
AAAGATGATATTGTAGACCGAGCAAAAATGGAAGATACCCTGAAGAGGAGGTTTTTCTAT
GATCAAGCTTTTGCTATTCATGGAGGTGTTAATGGNCTGTATGACTTTGGGCCCACTCGG
CTGCGCTTTGAAAGAACAATATTATTCAAACCTGGAGGCANCACTTTATCCAAGAGGAAC
AGATCCTGGAGATCGATTGCCCATGCTCACCCCTGAGCCAGGTTTAAAAACCTNTGGCCA
TGTAGACAAATTTGCTGCTTCATGGTGAAAGACGTAAAAA

Sequence 3954

GGTACAGCCTGCAGAACTATGAGCAAAAGGCACCTCTTGTCTTGATAACTTACCCAGCCT
NTGGTATTCCTTTCCAGCAACACAAAGGGGCTAAGGCAGTGACAACATTCAGAATATTCT
TCATTTGGGGGATGAGTATTGACTGGCAAGGACCACATCAGAACTTTGTGGCATGGGGGA
AAATGTTCTCTGTCTTTAACTGGGTGTTACTTTACAATTATAATTATATTAAAATTTATT
AAGCTGTGCCTTTAGGTTTTTTTGCAGTATACTCTACGCAAATTTTACCTCAGTGAAGAA
CTGTTAGCATACAACAGACAGATAACAAACACTCAAAAATGTGAAAATTGACAGAAAATA
GGTAACAAATATTTAGCATATAA

Sequence 3955

CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAATTAACAGGATTTTAAAG
GGAAATGAGGAAATCACAAAGAGCCAGTGTTAGAGGCTGAGTGAACCAGAGATCTGACCC
CAACACACAGCACACACCCAGATATGTTGCCTAATATGTGTAAGGGTTTGTTTTTTGTTT
TAACTTCCAAACTAAAACCCCTGATGATTTCAGAACACTGTAACACTGGACAGTTTCTCA
CAGCATGGTTGTGAGGATGAAGTAAAAAGAGAATGTAAAGAATAAGTGTTTTCTTTGTAA
GTGTGGTCCAGGTATCACTTATGCATATGCAT

Sequence 3956

CCCTTGGCCGCCCGGGCAGGTACGCGGGGGTATTTCGGGGCCCTAGGCGCGCGAGCGGTC
AGCATCCGGAATCTGGCCCCTGCAGGCGTGGGGTTCCACGTGGGAGGAGACTTGAATGAA
AATTCTGTGGAGAATCTTCAACAGAAAACACTTCAGGATCTGTTACATGAGCTTTCCTCC
TGACTAGTTTTGGAAGGCATGGCCAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 3957

TABLE 1A
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CCCTTAGCGTGGTCGCGGCCGAGGTACTACAAGAAGTTCTCCATTCCTGATCTAGATAGA
CACCAGCTACCTCTGGATGACGCCTTGCTGAGCTTTGCCCACGCCAACTGCACCCTGATC
ATCTCTGTAAGATTCACCCAGACTTCTTGGACACTGCATCAGGGAGAGTCTTCCTCTTTC
CCTGCCCACTTCCCATCCCATAAGAGTCCTCAGTTCTAGCCCCAAGCCCTAGGGTATGCT
TGTGGGAGAATAGGCATCTCTAATTCAGCATGGGGGGAGAGCAGGGAGGGGGCTCANGAAG
GAGCCTGACCATATAATTCACAGCTAG

Sequence 3958

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTAACTATGTCAAAGATAGCAAATACAGTT
CATCTGTGTCAACTTTAATCAGTTGATAGTGGCTGTCTAGCACATTGTGAATGGGGTCAA
TCAGAAAGAATGTCATTAGATCAATTAGCTATTACTTTATATTACCTAAACTTAGTATAA
TTTAAAATTTGATAATGAGTTTATTCAGTTTATAAAGAGTTCTGTTTTTGGCATGGCCTA
GTAGCTCCATTGCACAATTCCTTCTGCAGAAAACTACTATAACCTATGAACAAAATAGGA
AAAATAACTACCCGAAAGCACTGGAGA

Sequence 3959

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGCTAAATTTAGTTTAGAAAATTCTGGGTT
AATTCGATAAATATTTAAGGAACATCAATTACATGCCAGGCTGTCTACTAGATGCAGAGT
AAGACAGATTTATACCAGAATTTTCTTAAAGCCTCGAACAAGCTACTGTTCACAATGAGC
ACAGTGACCATATATCCTAATTTGCTGTAGACAGCCCCAGTTTACAGGCGCTATTCCAGC
ATTAATATCATC

Sequence 3960

TAGCGTGGTCGCGGCCGAGGTACCATTTTAGAGTGCAAACAACCTGCTACTTTCATTCCT
AATAACGTCATACTTACTAAACACTAGTTCCACTCTCTATGCATGTCCCACCATTGCCAC
ATTTCATTAAACTGCAGGGAGAAGCATGACACTGGCCAACACTGCGTCCAGCATTTGGGT
GGCCCTCAGGATTTCCCAGTCCTCTGAAATGGCCATCCTTCTCAGTGCGAACTTGAAGAG
TGAAAATACAGCCTTGAAGAAATGCAAAAACACTTCGTGTTAACAAACAGAAGAAATAGA
AAAAACAAGAAGAAGGTTATTTTTCATTTTTAAAGTAGAAGTTTTTCAAAATAAAGTAAT
ACATGTAAATTTTAAAAGAAATATAAGAATACAGAAATGCGCAGAGAAATTTTTTTTTAA
AAAGTCATTCATGATATCATTTCACAAGCAGACAACTATTAACATTTTGGTGTGTNTGTG
TGTGTGGGGNATTTTTTNTAGNCCTANGNATATTTTCTTTTAAACAAAAATGCCATNTGC
ACTAANCTTGTAAAAAATATTATTTNTCCCAAAAGGNGAACATTCATAAATACATTACT

Sequence 3961

CCCTTTGAGCGGCCGCCCGGGCAGGTACCTTTAAAAATACATCTTTTAAATGAACTCTTA
CTGAGAGAATAACTACTAAAAGTTTAATTGTAGTTTTTTATTATAATATTTTGCTTTGAT
TTTATACTAAAAACTGCCAACCAGATAACATCTAAATGTATCTTTTTCAATATGACAAAG
TTACATAAGAAGACTCCCCTTGCACGTAAAGAAAAATGCAATTATTTTCTATTCTGAATC
TCCAGACTGCTGTTTTAGAAAATCATATCTGATTATTTGCTCAGCAGAAGATTATTGAGT
TGATTTAGCTGTGATTTTACTTAACAAAGCTTCA

Sequence 3962

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTAGGAGGTAATACTAGAAACAATTGGGTAT
ACCCAACCCTCATACCACAATGCAAAAGTAACATTAATTAACACTGTCATGAAATGCAGT
TCTACCAAAACAATAAAGTTGTTTAGTGGAGAAAATATTTTATTTTGCTTTCATTTTTAA
TTTTAAATTAAGTAAAATTTGAAAGTTCTTTTGCACTAGCCCACCTATCAAGTAGTCAGC
AGCCACGTGACTGGTATAGTGGCTCTGGCCATCTTTTCCTCATGTGGAAGAATTTTCTAT
CTTTAATAAACTTTTTCTTTGTTTTTTTTTTCCAAATGGAGTTTCGCTNTTGTCCCCCAG
GCTGGAGTGGTGCANTGGCCCNATCTTCAGGTCACTGGCAACCTNTGCCTCCTGGGGTTC
AAAACNATTNTCCTGCCTTAACCTCCCAAGTAGCTGGGGATTAACAGGGCATGCNCCNAC
CAAGCCCAAAACAATTTTT

Sequence 3963

GGTACTTTTTTTTTTTTTTTTTTTTNCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTAAAANANAAAAAAAANNNTTTTNNNAANTNNAAAAAAANCNNNTAAAAAANNNN
TTTTTTNAAAAAAAAANACNNNANNNNNNTTNTGTNNTTNNNTNTNAAAAAATGCANANN

TABLE 1A
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NNNNAAAANNAAANACCCCCTTNTTNNNCCNGGGGGGNNNNNTNANNGNGGGGNNCTTCC
CCCCCNGGGGGGGNGNCAAATTTAATTCCCCCAAGGCNANAATNNGGCNTTATNGANGGG
NAAAANGGAANNAGAAAAAANNNTANNNCAAAAAACTTTAAAACCCTGATCAACTTAAAA
ATG

Sequence 3964
CCTTACCNTGGTCGCGGCCGANGTACACAGANAAAGCTTGGGTGATGGAACTAGAATGGC
TGATTCAACAACAATGTTATCAATAAGTGATCCAATTCATATGGTGCTAATCAAAACAGA
CATATTTGGTGAGACGACTTTAGTAGCACCATATTTTCTGGAATGGCGATCGGTTTTGGG
CTCANAAAATGGAGTGACCAGTCTGACTGTGGAACTTATGGGTGTAGGCACANAATCAAA
AGTTTCTGTGGGAATTTTAAATATAAAACTTGAAATGTATCCACCACTCAATCAAACGTT
ATCTCAAGAAGTAGTGAACACACAGCTTGCTTTGGAACGTCAGAAAACTGCAGAGAAAGA
GCCGATTATTTCTTGTATATGCTAAGCAGTGGTGGAGAAAATATTTGCAAATTCG

Sequence 3965
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATCTTTTAGACTAAAATGGTTTTGCTTTGA
CCCCAATAATCACAATTATTATTATAACTTCGGAAAGATNTTCAATCATTCATTCACTCA
ATCATTCAATTGGCTTTTTTTCTTAATTATCTCATCTGAACAGTGTTGCTAATGGCACTG
TGAANGATTTTATAAAAGGAGGAAATATAANCNGTTCTCTCATCAACTGTAGTAAGAATT
GGAGAGAAAAGAAAACCTTGAAGAACTAATTGAATAATATAAATAAAATTCTGTTANCAA
TTCTACNTTTAAGTANTGTGAANGGGAAAAAGCTATTTCTGCACAGGTANNGAAGCAGGT
ATTAACAATTCAAATCCAACTNTTTAGGCTCANAATATAGGTTCANGATTATTNGTTGTG
AGAAATAATGAGAATATTCAAGAATAAAGGCTAATTCTTGGAAATGGGATTTAGAAATTT
TTCAACTTGGATTTCATNAGCAAAAACATAAGGGCNTTTCATTTCATAAANAACTTTTAA
AAAATGTTAACTATGTCATCCTGGNTAAGTGATTAAATTCAACTGTCTAAAAAATTACCA
AAATATTTTACTTTTATTGAAAGGTTTATTAGTANAAATACCTTGTGTGNNGNTTTTNAA
NGCTTGGGGGCTTGGGNGGATTTAATTNGGTGGCCCTTATTCNAACTTTTGCAATATCTT
CCNTAGTTNGGGACATGNAANGNAATTTGGACTGGTT

Sequence 3966
CCCTTAGCGTGGTCGCGGCCGAGGTACTNNTATGANGTTATACTANAAACAATTGGGTNT
ACCCAACCCTNATACCACAATGCNAAAGTAACATTAATTAACACTTGTCATGAAATGCAG
TTCTACCAAAACAATAAAGTTGTTTAGTGGAGAAAATATGNTATTTTGCTTTCATTTTTA
ATTTTAAATTAAAGTAAAATTTGAAAAGTTCTTTTTTGCACTAGCCCACCTATCAAAGNT
ANTCANCCANCCCACNTGGACTGGGNATAAGTTGGNTNTNGCCCATCTTTTTTCCTCCAT
GTNGGNAANGAAANTTTTNCTTATCTTTTTAATAAACCTTTTT

Sequence 3967
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTATCATTTATCAGCCAATATCATCT
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AAATGTCTAAATGTGGAGATTAAGTAGACACATATGTAATACAACTAGTGGCTTAGAGAA
GGTATTCAATAAATGATCACTATATTATTATCATCATTATTGCCTCTGTATGGCTACACA
GAGAACCTGAAATCACTAACAAACTTATTTAGCCTTAAAGCAGATAAGAAGCAATCAGCT
GAAATGGAGGACACATTTTGCTATAGTCAGGCCTGCTTACAATAGCAAAGAGTTACA

Sequence 3968
CCCTTAGCGTGGTCGTGGCCGAGGTACTACGCAATTTTGGAGGCTCTATCATCGTACACA
TTGGAGACACACATAATAGTTTAGACAGCAATTTTTCAATTGTTTCTCTATTTTTTCCAC
ATTTATATCTTACTAATAGTAACACAACCATTCCCCATGAACATGCTAAACTTTGAATGT
GTAAATATAAACAATATTGTTGTAATAGTGTTTTTATACTGTCAGCTATACTGGGTGTAA
GTCCAAATGCAGCAATACACCAATCGCAACACGTTGATTTATTACTTTTAAATGGTCTTA
CTAATTCTGTAAAACTCACCCCGTATAACTCTTTAAATTTTGCTAACATTGCTGCCTTTG
CATTACTAGTTTTTAGTACCTGCCCGGGCGGCCGCCCGGGCAGGTACTNNNNNNTNNNNN
NNNTTNNNNNTNTTTCGANGGGTAAAAAAATTTGGGTTTTATTGNTTTTGCTAAATAATN
CTAAAAAAAAATTTCATTTTGAAGGCNGGGCTTGAATTNTTTAATTTGGACCATTTNTTT
AAATTAAAAAAAAGGGANGGGGGAAAGAANNCNTGGCCAAAAAAATANTNTTTAACCCCC

TABLE 1A
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NCCCC
Sequence 3969
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTGGACTGAACAAACATTTATTAAAG
GAGTAATTGAATAAGTGTCTGGGCAACTGAATGTTACAGTAGGTAAACTGAAGGAATTCA
AAGGAGTGGGGGAAGGGGGAGATTGAGAGAGAGTTGGAATGATTAGGTCTTTACCTGCTT
AAGGAAAAGGTAAAGCTTATTAAAAATTGTTATCTCTGTAATAGAAGCACCTTGAGTTAA
AAACTTTCTTCTTTAAATGATTCTGAATTTTAAAAGTTTCAACATGGAACTTACATTTAA
TGCTAGTAAAAATGATTACTTAAAAAATGCTGGCCCTCAACAAGAGCTGTTGTAAGGGTG
AGTAGGGTTTGGATAAAGAAAA
Sequence 3970
TGCAGAATTCGCCCTTAGCAGTGGTCGCGGCCGAGGTACGCGGGGACTTNTAGCCTNCAA
AACTGTGAGAAAATAAATGTTTTCAACCTCAGTCTGTGGTATTTTGNTGTGGCAACCCAA
GCAGACTAATACACTGGCCATGGGCAAGACGCCCTGACCACAGTGATCTTGACAGGGGTG
TGGGCGCAGGACATGCTGGGGCATCTTGAAGCTACTGCAGGCCCCACAGAATCTAGAGGG
TCCAGAATAAAGTCTTTATCCCTCCATGAGCTATCTCTTTNTGTTGCACATTTTTTTCTG
CATTAAAACAGTTTGATTATTTGCCCCATGCCCATATAG
Sequence 3971
CCCTTAGCGTGGTCGCGGCCGAGGTACCATCCTCCGCTTTCCATTTGTGGGGAGTGGGAG
ATTGATTAAGATGCCTTTTATATGAATTGACAGTATTGGCATTTTATAATATACTTTTTT
GTTCCCAGATATCTACTCTTTATGTTTCACATTTGCCTGGTTTCTAAGTTTTCTAGGTGT
ATTTCTAACCAAATCAGAAAACTTTATTATCCCAGGTTACCTTATCTTGGAACCAGTTTA
TAGAATCCTGTTGAGGGAGGATGATAATTTAAATAGCTGATACTTCATGAGTATGCCCTG
TTAGCATAAGCATGCTTCCAACA
Sequence 3972
CGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAG
GTACGCGGGGAGACCAACTTAACACTGAACCCATTACTTTTCCAAGACCAGAAAAAAATA
TTACATGAACAGGAACTACTTTCCTTCAGATAAGAATTCAAGCTTTGACATTGTAAACCA
CAGACGAATTGGAGCTTGGCATTGAAAGGAGGTGTTCTGCAATGATTTTTTTTCTTGTTT
AGAGAAGTTTACTTCTACAAGAAGAAATCTGAAAAATGACAGGAGCAAAGAGGAAAAAGA
AAAGCATGCTTTGGAGCAAGATGCATACCCCCCAGTGTGAAGACATTATACAGTGGTGTA
GAAGGCGACTGCCCATTTTGGATTGGGCACCACATTACAATCTTGAAAGAAAA
Sequence 3973
CCCTTCGAGCGGCCGCCCGGGCAGGTACAAAATGGAACCTACATTAATCATCTAAAACGG
CATTATCATAACAGACTTGCCTGAGCCATTACTTACCACAATGAATTGGTATGACACTTC
TAACAAGGTCAGAAAAATCAGATTCTGTTTTCTTAATATTGAGGATCTTTCCCACTTTCC
CTGAGCTAATGAGACACAGGTCTGTGGCAAATACATTTAGTATTTTCCTACACATGAATT
CCTAACAAAACCAAGCAAGAGCATACAAAGGGAAACATACTTTAGCTAATTTAAAGGTGT
CTTATGTTATTTTGCTTATTGAAAAAACTGAAAAGGTAGTAAGGAAAAGATGTAATGTGG
TAATAGCAAATTGCATCTGTGGTCTCTAATGAATAATCTCGCTTNCAGTAAAAAAAACTA
TCAAAAGAGCTTAAACTCAAGGTAAACAAAAGGATGAAAATATTAAAATAAGAGCAGAAA
TCAATGAAACAGAAAACAGAATNAAGAATGTCACTGAAAACAAAAGTAGGTATTTTGNAA
AGATCAATAAAATTGTCAAACCTTTGGCCCGACTGNCCAAGAAATNAGACNCAATTTCCC
ATTTAATT
Sequence 3974
CCCTTAGCGTGGTCGCGGCCGAGGNACTTCTATTTTTTTTNTTNTNNCTTTTTANANATT
CATTTNCTTTTTTTTNTTCNCTGTTTGGNCTTGCCNNTTTTTTATNCNTNCANTTTNACN
ATTGANCACATTTCANGCCTTTNTATTAAAAATGAAAAATGAAAAAACAAATTNAAAACC
TATTCAAATGGGTTCTANTTCAATTTGTCTAGNATAAANTGTCATAACTGGTTTACTGAA
AACNAACACATTTTAAAAATTGGTTTACCTGAGGATGACTTGCATAAAAAT
Sequence 3975
CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGACTAGATTGGCTTAAATATTTAAATATCC

TABLE 1A
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TTACACTTTTTTTTTAAAAGATATTTTCAAAATATATATTTTGAGATTCTTTTCTATAAG
CAGGTTGCTGCACTCTACACAAAGGTTTATTTGTTAAATAAACAGATGAGGAAACTATAG
CCCACTGTGTTTTTGTTAGTTTTATTGAAACACAGTTTTATTGGAACACACTCATTTATT
TGTATATTATCCACAGCTGCTTTCACCCTACACAGGCATAAATGAGCAGTTGTGGCANAG
ACAGTATAGCCTACACAATTTAAAATATTTACTCTTTGACCTTTAAAGAAAAGATTTGGC
AACCCCCAGATTAAAAGTTTTAATGGCGGCCGGGCATGGTGGCTCACCCCTGTAATCCCA
GCACTTTGGGAGGCCGAGGCGAGCAAATCACCTGAGGTCAGGAATTCGAGACCAGCCTGG
CCAACATGGTGAAACCCCGTCTCTACTAATATACAAAAATCAGCCNGCCATGGTGGCCGG
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AAAAAAAAAAAAAA

Sequence 3976
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAATTAGCCATTC
ATGCAACAGGCAGTGTTCAAAGAGGCTTCAAGTTCAAGGGAGCTCAGAGTTCCATTTTCC
ACCGAAAAGCTTTAAACAGACTGAATATTAGTGGACATTTTTGAATAGTTTTAAAACATA
ATTTTACACCTGATCTTAGCCAGAAGGCTGAGAAGTGATAACAAAAGTGTCAGTATTCTG
GAGAGATATTCCTCAGTTGTTATCACTTACCACAGTAACTAACATCGATGTTGGACATGC
TGTTTTTATAACAACATTCTTTTTTTATATTATTCTTTAATTTTATAAGACTTCATAGGA
CACAGGCAATACAAATCTGCTATGTTATTCCTTTTTGTCTCTCCTTGTAATTTACAACC

Sequence 3977
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATATCATGATCTTACCTGTTGTTTGAC
TATGAAAAAGAAATTTGATGCTGATCCAGTTGAATTATTTGAAATTCCAGTAAAAGAATT
AACATTTGACCAACTCCAGTTGTTAAAGCTCACTCATGTGACTGCACTGAAATCTAAGGA
TCGGAAAGAATCTGTGGTTCAGGAGGAAAATTCCTTTTCAGAAAATCAGCCATTTCCTTC
TCTTAANATGGTTTTAGAGTCTTTGCCAGAAGATGTAGGGTTTAACATTGAAATAAAATG
GATCTGCCAGCAAAGGGATGGAATGTGGGATGGTAACTTATCAACATATTTTGACATGAA
TCTGTTTTTGGATATAATTTTAAAAACTGTTTTAAA

Sequence 3978
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATTGTAATCCAAGAAGACTGATCTCTTC
TAGTGATTCAGATTGGTTTTATCTTTGATTTTTAGATTTCATCTGCATTTCTTGATTAAT
TACTCATTTTGGTTTAGTTGACAGTTGAGCAAAAAAAAAATTACTTTCTCCGGAGTAAAT
CATCTGTTTTATTTATGCTTTCTATGTTGTTCTATGTTGTAGNGCAGTAGCNCATTAGGA
GGTATCTTTGTGGAGTGAAAANATTTTTGTGGCTGGACCCGGTGGTGGTTCATGCCTGTA
ATCCCANCACTTTGGGAGGCCGAAGGCAGGTGGTTCACCTGAGGTCAGGAAGTTTGANAC
CAGCCTGGCCAAAATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTACCCGGGCCT
GGTGGCGGGCC

Sequence 3979
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AGATAAGAACCAAGAGGAAAAAGAAATAAGAAAAGATGGGGGAAAGGAAGGAGAAAATAG
GAAATGAAAGGATTAGGACTTGGGCATTTATATTAATACAAAATGGTGTAAACGGCCTGA
ATATCACTGTAGTAGTATCATGCGGGGGAAAGTGTGATGGAAAATAGGTTTAAAAATCTT
AATTTTTAAAACTTTAGTAAGCTTTATTTATATTTTTTAGGATTTTCTGAACATAGCATG
AAGGGTTTAGATTCATTTTTCTGAAAAACGATTAAAAAAACTACCAATTTTTTTTTGAGT
GCCCACACTTGCCGTTGTGCTGTATACATGATTTTACCTTA

Sequence 3980
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GCTTCCACACAGACGCAGCATTCGGGAATGTCCCCGTCACCTAGCAACAGTTATGATACT
TCCCCACAGCCTTGCACTACCAATCAAAATGGGAGGGAGAATAATGAGCGATTATCTACA
TCCAATGGAAAGATGTCACCAACTCGCTACCATGCAAACAGCATGGGTCAGAGGTCATAC
AGTTTTGAAGCCTCAGAAGAGGACCTAGATGTAGATGATAAAGTGGAAGAATTAATGAGG
AGGGACAGCAGTGTGATAAAAGAGGAAATCAAAGCCTTTCTTGCCAATCGGAGGATTTCC

TABLE 1A
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CAAGCAGTTGTTGCACAGGTAACAGGTATCAGTCAGAGCCGGATCTCTCATTGGCTGTTG
CAGCAGGGATCAGACCTGAGTGAACAGAAGAAAAGAGCATTTTACCGATGGTATCAACTT
GAGAAGACAAACCCTGGCGCTACACTAAGTATGAGACCAGCCCCCATTCCAAT
Sequence 3981
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GCTCTTCCCTGAGACTGGGTTTTCTAATTTATAAAGCAAAGAGTTTAGAGGGATGATCTT
CAAGCCTCTTGTAGTTCTAGAATTCTGTAGTTCTGGGAGTTTGTAAACTATTAAGTTTTC
TTTTAGCCCAGAACTTCCATTTTCCTGCTCTCTCGTGTCTGCTCTAGACTCAGCTCTAGC
TCGGCTAAGTGTGGAGCTCTCTGCTGGGGAGATCCCTAGAAGCTTTGAAGGAGACATTGT
GAGGCTGGAGA
Sequence 3982
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GGGCCTTTTATTACTTGATTGCAAATCATTCTTCATTGTTGCCAAATTTATGGAAGGACA
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GGCTGTTCCATTATGTGCAAATTATTGCTAAAAGCAGAGAGGCTGCAAGGGAGGTGGTGT
GTACAAAAGATCTCATTGAAAATTTAAAGTCATCATAATTTGTTTGCCATAAATATGTAA
GTGTCAATACCAAAATGTCTGAGTAACTTCTTAAATCCCTGTTCTAGCAAACTAATATTG
GTTCATGTGCTTGGTGTATATGTAAAATCTTAAATTATG
Sequence 3983
CCCTTAGCGGCCGCCCGGGCAGGTACTTAACCAGAGTTCGTGGATTTTGTGGACTTTAAT
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GAACATAGACAGGCTCTCACTATGACCTGGACAGTTTAAGTTGCTACACTGGTAACATTC
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CTTGCTTCAGGCTTACCAATCACACCTAGAACTGAAGTCTGAGTGAGTGGTATTAATAAT
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CAGCTCTTAATACAACAA
Sequence 3984
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GTTCATGAGCCCCGGTGCCAAATGCCCGGCTTCTAAGAGATACATGAAAACCCTGATTCC
TCTTTTCATGGGGAAGACGTCTCTGTCCACCCAGTGGACAGCACAAACAGCTCCCCGCGT
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TGGAACTTTAT
Sequence 3985
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TACANCTAGACTTTGGTNACGTNCCCTCTACCGAAGTCTTCACAAGAGGATNGCTGCTGG
TGTAATTTTATTTATTGAGNTGTCAGTTTGNTTCTCTGTTCTATTGCTGCCTTTTT
Sequence 3986
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CTGTCATTCATTTAAACTTTGCATATATTGCCATGATGGCTTAAACATAAAATTTCTCTT
GCACTAACAACTTTTTAAAACCGATTTCAAATCACTTCATAGTTTTATTTTTTATATTTT
GAATTCTAGCCAGTCTTAAAATCAGCTTTGGGAGGGGGGTGCATATAACATGTTTTTTGT

TABLE 1A
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TTTGTTTTGNTTTTTGNTTTTTTAAATTATTGCACTAGAATTTAGGGGTTTGGTGCCTCT
CCCGTATTTTTTTTAAAAAATAA
Sequence 3987
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CAAAAAAAATTATCAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTATCAT
CTCTAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGG
ATATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTC
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GCCTCCATGGGCAAAAAGCTGTGTAGAGAACATGGATCCTGAGGGGGTAAATGGCAGATA
ATCTAGCACAGATTGGTATGATTATCTATACTTTTCAGATGAGAACACTGAGAGTCAAAA
TTAAGTAGATTTGCCCAAGGCCATATAGCTGGTAGGAGCTATAAATAATTATCTCAAAGA
AGTCATTATTACGTGGGATCATTCAAGAAATTTCTGGATTTAGAAAATAGCCTTAAAATA
TGAAACAAATATTANCATTTGTTAATTTGAGATGTTATGTTCACAGATATTGGTAAGATA
TCATTTTAATTTATGGGGTTTAAATTTCTTTT
Sequence 3988
CCCTTAGCGTGGTCGCGGCCGANGTACTATTCTCTCTCCCAGATCAAATTTTCTCCGGTG
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CACTTTAAAAGAAAACGTGGAAAGAAGAAAGGAAAAATATTACCATAGGAACCANAGCAC
CTCATACTTGAATACACTAAAAGAGCAGCATCAGACAAAGGTTCAAGTTGNTCCAGTAGC
AGACAGAATTTGACATTATCTTTAAGTTCTACCAAAGACAAAGGATCTCAAGTTTGTAAC
TATGCTAATGGAGGACTTTTCAGTAA
Sequence 3989
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TTGGAATTTTAAGATAGAGCATGATCCCCAAATGCACAGAATCAGTATCACCTGGGAAAT
TATGAAAATGCATATTCTCAAACTCCACGTCAGACTTACAGAATCAGATTCTGGAAATGG
GACCTAACAATATGATTTTTTTAAACAGTCCTTCAAATGAGTCTTTGAGAAACCCCTGAG
GTAAAGGAATCCACCTAAAGTA
Sequence 3990
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCGCGGGAGGGAATTTCATCTCTACTGATTGT
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AAACAATGGAATAATTGAATACCCTCAACTTAATTCTAAATTAAGGGAGAATTTGTTGGT
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TAACTG
Sequence 3991
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CCACCCGGAGTGAGACTCCGTCTAAAAAAAAAAAAAAAAAA
Sequence 3992
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TABLE 1A
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AAGACTACCTTCAAAGAAATATGAATCAGGATAACCTGTGATCTAAATAATGTCATCTTA
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GACATTTTAGAGAGAAAGGACAATGAAGTGATTTTCTGAATGGGAATGACAGACCTCTGG
GAAGCCAGCTACCACTGAATCTCGGTATCAGTTTTTTTTAAAGTTTANAGTTAGAAGGGG
TGGTCGCCTNCTTTTCACCAGATGCCGGAAGCCTAGGGACCCAGCAAGGCGGGGGTGCCC
ACCGCTTGCCCCACTAGTTCATATCAAAAATTTGGGAAGTGGGAANGGCCACTGCCCTNC
CCACNTTAGCAATTCCATAACCCTAACCAAAAGGACCTTAACCACCCTATCTCACTGGCC
AGGGTTTTTT

Sequence 3993
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTAACCCTTGTTTTTAATATGAGTTACAGAT
TTTTTTTTTTCTGGTATGTCATTTGTCTTTTGACCTTGGNGTTTTGTTATGGATTTTTTT
TTTTNTNAAACTTATTTTTTNNGGCTTNNGCNTTTNAAGNCNTNCTNAAAAANGGCCTTN
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CTTTAATNGCTGCCNNCCACCCNGATAAACAAAGNNANACCNGNTNTCCACTCCCCCCAA
AAAAAANTTTNTANGGAATTNTCCTNNAANGTTAATTTTAATACTTCCGGGTTNCTTTTT
TTTNAATTAAATNNTTGGGNCGGNTTTTCCNAACGAACTGTTTGAAAAACAANCCNCTGT
TTTTTTTNTAAANAGCTCNCCANTTNNCCCAAAATTTTTTAAGNTTTTTGNACCCCCCCG
GAAGGNGGANGCCNCTTTTNAANAATAAAAANCCNATTNGGAANTGGGCCCCTTTTTCGG
GGAATTTNGGNNTCCGGCCCTTNGAACCCCCGGGNTGGNNCGGGAAACCAATAANNCCNN
TTTTTTTTTTTTNAAAAGGGGNCCCCAANNAAAACCCACCTTTTTTTNAAAAAAAANNTT
NAAAAAAAANNTNTNNNTTTTTNTCCCCAAANCCNAAAAAAAAAAAA

Sequence 3994
CCCTTAGCGTGGTCGCGGCCGAGGTACAACATCATCAAGGCAGAAACAGTTTCCCAACAG
GTTATATTTTCTTAATGGTAGTCATGAAGTCACCCCACCTGCTCTCAGTTAAAACAGAGC
TTAAGGCTTTTCCACAGGTGTAAGATATCAAACTTTTAGCCTGCCCTGATATCCTCCGGG
TCTTCTGCAGTTTTTTCTGTATCCACTAGAAAGTGAATGAATAATTCATTTTTTAAAAAT
ATTTTCTTTCCTGTCTCAGTATTCTTGCTGCTGCATCCCATTGTTAGATTGATTT

Sequence 3995
CCCTTAGCGTGGTCGCGGCCGAGGTACTTCCATTTGAAAGCTTAAAAAAGTGAGTGTAAC
AACAAGCACTCAGGAAACTTTAGAATTAAGACATTAATAGCTTATTTCTTTTAAGTTTTA
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CTAGTGCTTTTGTAATGCTCCAAGAAGAAATCCAAATATTTGAAATAAGACATTATTATT
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AGCCTCTCAGGCCTCAGGCAAATTATAGTCAAATACATCACCCCCCTCAGGCATCTGTGG
CAAGGCATCCCTCTAGAGAACAACTAATTGATTACTTGATGCTGAAAGTGGCCCACCAGC
CTNCATATACACAGCCCCATTGTTCTCCTAGACAAGGCCATGAACTGGCAAAACAAGANA
TTCGAGTGAGGGTTGAAAAGGATCCAGA

Sequence 3996
CCCTTAGCGTGGTCGCGGCCGAGGTACTCTCCTTCTAGTGAAGGATTGTCACAGAGTTTC
ACTGGATGAAACTATGACCCAGTATTCTTACTGTATTTTACATATGCCTGTAAATTATTT
GCAAAAAAGAAGAAGAAGAGGAAGAAAGAAAAGAAAGAAAAGAAAGAAAGAAAGAAGAA
AGAAAGAANGAAAGAAAGAAAGAAAGAAAGAAAAAGAAAGAAAGAATAAAAAAAAATGAT
AACATGGCAACCACCAAACTCCCTTAAAAACAAACATTGGTGACATGGCCAATTAAGTAT
CAGTGAGCCTCCTATCTGGGACTTATCTGTTCCTATTGTTTCAAAACCATTTCATGTACC
TGCCCGGCGGCCGCTCGAAAGG

Sequence 3997
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGTGGAAATCAGTGGTAAGGAAAAAAATGGA
CAGGTCATCTAATATGTAAACAATTTAACTTTGATGTAATCTCTTGTTTGCTGGATTTGG
TCCTGGGGAAAGTCAAAGGACTTTCTTAGTTACTTAGTTGAATCTCTCACCTTTTCTCTG

TABLE 1A
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TCTTCTCATTTAACTTCTCTTCTCTTACCTTGCAGAGCATTTTGATGATGAGTCCAGCTG
AAAATAGTGTTGTGTCAGGAATTCAGACTTACGGCCTAACCCTTTTTCTTGTGGGGAAAT
CTTTAGGTGTATAGGACTGTGCTAATGGTGATTTAAAGTAGAACCAGCAGAGGTTTGGTC
TGAGGGAAGGTGAAAGCACCGTATTTTATCAAAGTTGAGAACCTGTAGAGAATTTGGTGG
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AAAACACAATTTCCTGGTTCAAAAGAAAATAAGCCCATAAAAAAAGGGCCCCCCANGCTT
CTTGGACATCAAAGCTTACNAAGAATCCTCTTTATAAAAACAGTATTTGGGATGAA
Sequence 3998
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCCTGCAAGATCA
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CTAAAATACGTAGAATGTATGAAGTCTGAATTTCAAGATACATGGGGTATAGCACTACAA
ACTACAATCCACTGGACATGACCTCCAATGAACTTTGGAGATTTTGGAAGCAGTCAAAAG
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TCTCTACTTTGTTTTTCTGTACCT
Sequence 3999
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNNNNNAC
CTCNGGGAAGACAATGCAATAGCCTAGGCAAGGCCATAGGACAATAAAAGAAGGTGTCAT
CATGACAATTACTTCACTATTGTATATCCACCCCAGAGGCTTTATCATTCTTCCATTTTC
TTATGATTTTCATCTCATCTGGCATATTTGGGAGTAGATGATGAATAGTTTTGAAATAAT
TATGTGGAATAACAAATAGCAAAACGTTCAAAA
Sequence 4000
CCCTTAGCGTGGTCGCGGCCGAGGAGCAAGAGCAAGTCTAGTGTGAGAAGCACTTTTCAG
GCATCATGTTTGCTGACCACCCTTTGGCCCAAACACTCACCTNACTAAGCCTAGACTCAA
AATATGAGGGCACTGCAAAGATTCACAGCAAAGATTCATGGCACAGGGCCTAGACACAGG
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GATCTCTGCTTCCATCAACATTATTCATCTTTGTTTCAGGGGTCCCTGTGATTTTAGTTG
GCCAAGATGTAACTGGCATAATGAATACAACCAAATGAGAAATATTACCTTTTTTTGTTG
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GCATTCATTCTGGTCCCTAGTACCTGCCCCG
Sequence 4001
CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAATTAGAAGAGACAAGCATAGACTTGTATC
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CTATAGAGATCTAAAATATTATCTCTAGAAATGTCCTGCCCGGG
Sequence 4002
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TTGGAATTACTCTTTCTTGGTCATATCCATCTGCTTGCATAGGACGAGACTGAAAATCTT
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CAAACTGTCTAGCAAGTAGAATGTTCATATATGAATCTAATATAGCAAATTTATCCCTCA
TAATACTGTTTTTGAAACATCAAGTTTATTCTCAATGTGTGGCTCTAATGACAATTTCTT
GGGGAACGTAATAGAACTGCAATAATGACTAATGGAAAAGACTCTAAAGCTGTATCTGAT
GGGAAATGATTTACTTTTTAAACTCTTTCTATTTAAGGAATTAGCTTACCC
Sequence 4003
TATCTGCATAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTAGAACAACCCCTNTCT

TABLE 1A
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GAAAAGCTTGAGCCAAAACAGTCCCAAAGACAACAAGACCCCTCTCCCAGCCTCCACAGA
ATGGAAGATCTAAAGGTTCTCTTGAGATGATCCAGCTAGTATGGAAGATCTAAAGGTTCT
CTTGAGATGATCCAGCTAGTGTCCTATTCTCCTGCAGTCCCTGTTCCTAGGTTTCCTCAA
CGAAGTTTGACAAAAATCTAAACCAACATAGCCAACGAACTTGCCTTGTTACACAAGAGT
GGCTAAAATAGCATCTCAAATATTCTTTCAGTTCACTGTAAAAATTTTTCCCATGTACCT
GCCCG

Sequence 4004
CCCTTAGCGTGGTCGCGGCCGAGGTACTATAGGAATGGTAAGTTAAGAGACAAAAGAGCA
GCTACACAGATGAAGAGGAACTGCAAAGGAGAATGTTTTGAAGGAGAAGACAAATAGAAT
TTGGCAAAAGTAGCTGGAAAGGTTGTTGCAGAAAAGGACAAATGGTGTCACTGTGAGAAC
ACACAATAAATAAAACTGAATGGAAGAGTCAACAGCAGAAACTGGGATCAGGGAGTAAAA
AGCATATTATGGGACAAAACAGATACATGATGTGCAAAACACTGTCTGCAATTTAAATGT
GATATGATGGAATTTGG

Sequence 4005
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTTACCTGCAGCATTTGTTGAAGAAGCA
GAATGCTACTGGGAGAGAGCCACTTGGGAACATCATATTTTCCTCTCTACAAAAACAAAG
CATTTAAGAGATTCAGGTTCAATCAGCCTTGACACAAATTCCTTAGGTAATAACATGCTG
GAGGTTTACTTTTAAGCTTGAANACTTCACCCAACTACAATACTTGGTAAACATTATTAA
CTAAAAAAAATCAATTTCTTGGCTGGGCGTGGTGGCTCACACCTNAAGTCCCAGCACTTT
GGGAGGTCA

Sequence 4006
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAATATTTGGCAAAGGAATGAAAAAAGTTAG
AAAGTTGTCTGTCTGTGGGCTAGGCTCTGCCTGCAAGATACTTACAATCTAGGTCAGAGG
TTCCTAAATCCTTCTCAATGCCGTTTGCACTGGCCCTGAGGAAAGTGTGAAAATGAACAC
TATTGTAGAGTCTTACATGAAGCTAAATTTGTTCATTTATATCACTTCTCTTTTATTATG
AGATTATGTCCTCTGCAGTTTTTTGGTATTAAAATGTCTTTTATGAAAGGATAGTAAGAG
TTAGATAGTAGTCTTTTTTGTGCAAAANAAAAA

Sequence 4007
ACCAAACATCTGAAAATAAGAAGACAGCGCTGCAGAGCCCTACACAGTCAATGGGGCACT
TTGGCCGAGCCTGTCTCACCTCATCTTTACAACTCTTGGAGGCAGGTCCTATTACCTCCA
ATGAACACAGGAGAATATGAGCGTTAGAAAGGAGAGTGACTTGGGCAGGGCCACAGGGCC
CCCAAACTGGAGAGCTGATCCTTATCCTCTGCTTCTCAACTCTTTCACTATGCCATGCTG
CCTTTCTGACCCTGTCTTANTCTTGATTGTCTGCTGAAAACTGCTGTGAGTAAGAACATT
CACCTTCCCCAGGTCGAGCAACGGTTGCACCTCAATCCATTCTCTGCAGGCAGCATCTGC
TTGGTGTTATACAAAGAGCGACACATTTTCAAAACTTTATTCCC

Sequence 4008
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AGAGCTTAATGTCTTAGAAAAGGCCTTTTGCACTTTTTGAATCTTCTGTATCCTTCTGGG
TCTTAGGCCATTANTAAAGNGGGCACAATCATCCCATAATGGCTCCTTCAAACTAGGGAC
ACAGGGCCCGTGNNTTTTAGAAGTTTCAGTGANAAAGGTAGAAATCAAGTGCATTTATGG
GCTGTCACCACTTACTGCTNCTATGGCCCTGNTATGGGGNGACTGTGTCAAGTCAAAGAC
TAATTGGCCACTCCTNTATGGTTACACAGGNAATGAAAAAATCCATTTA

Sequence 4009
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GCACTTTCTCAAGACATGTTCATTGGTCTGAGCAAAGTTCTGTCTCTTGGAAGGAGACAG
TAGCTTGGTGGTGCTATTAGGCAGATGAGGGCTTGTTAGATCAAGATGTAAACTCTCTTT
CTTCAGTCTGATTTTAAAATGAACTGTCATTTGTAGTAATTATTAAATGAGAAGCATAAA

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TTAAGTATTTTACTTTTTTTATTTGNAGGAAATACAACTGGAGCACGCAAAGCAAGCCTT
TGTGCAACGGG
Sequence 4010
CCCTTAGCGTGGTCGCGGCCGAGGTACTCCATGTTGATGGGTCTATGTTTCTTTCCATTT
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CCCAGAATGCTACTCTCTGGCCATTCCTGTCATCCCCAAACATTTTTGTTTTTAATTCCA
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TCAACAAAAANGGGNNNGGGGGCTNTTTTTTACCCTTNNAAAAAAGGGAAANGGCCTNTA
NTNAAAACTTGCTTTNAAAAAANTTTTTTTTTTTTT
Sequence 4011
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AATTTTCATAGACAATTGCAACA
Sequence 4012
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GGGCCGGCCCGNTCCGAAAGGGGCG
Sequence 4013
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Sequence 4014
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CAAA
Sequence 4015
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Sequence 4016

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CTCGGTCGAACCTTCCCGCACGTCTCAAAGCAGGGTCTAACGAGTCT

Sequence 4017

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Sequence 4018

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CATTTTACCTTGAAATCACGAATGTAATACAGATAAAGCAAGACATCAAACAGGAAAGAC
TAAGGCTTGTGATAAGCAATAACAGCTTATAATCAAGACCCCATTCAATCTGTCCTAGTC
CACTGATAAAATAAATGTGCAGTGCTGTGCTGCACAGAAGATAAAGCACATGGCCCGTCA
TGCAGACTTTAATTTCAATAAAATCGTTACTCTCTGCAGGAGTGTACAAATGTCAAGCCT
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AGCTGACTACCTTGG

Sequence 4019

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AAAGTTGGAAAATTTAGAAATGTCCACTGTAGGACGTGGAATATGGCAAGAAAACTGAAA
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Sequence 4020

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AAATTACTGTCACACAAATACTTAC

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Sequence 4021
CCCTTAGCGTGGTCGCGGCCGAGGTACCCCCTGTAGTAGTAGGCAAATGCTTCCCCTCCT
GCACCCCCAACAAAGATGTCCTCATCCTAATCCCAGAGATCTTTGAATGCGCTATCTTGC
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AGAGAGAGGCTTCTAGGAGAAAAGTCCAGCCTCTGGTTCACAGTCAGCAACAAATCTGAA
CGTTTAGTCTTACAACTGTGAGGAAGTGAATTCAGCCAACAACCCAAAGGAGCAAGGAAA
TGAATTCTTCCCCAGAGT
Sequence 4022
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Sequence 4023
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Sequence 4024
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Sequence 4026
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Sequence 4027
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Sequence 4028
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Sequence 4029
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Sequence 4030
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Sequence 4031
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Sequence 4032
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Sequence 4033
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Sequence 4034
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Sequence 4036
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Sequence 4037
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CTTTTGCCACTT
Sequence 4038
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Sequence 4039
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Sequence 4041
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CATTTGGTTTATTTGGTTTTTATTTTAAA
Sequence 4042
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AACATCATGATACACAAGACTAATCATGCAAACAACTGTAAGNGGGATGTGTTACTTAAA
CACTAAGCTCATGACTGACATTCTCAATATATACCACTGATTTTTTTAAGCCATGGNGGG
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ATACTATTACTTTTTGGG
Sequence 4043
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GAAAATAGGAAATGAAAGGATTAGGACTTGGGCATTTATATTAATACAAAATGGTGTAAA
CGGCCTGAATATCACTGTAGTAGTATCATGCGGGGGAAAGTGTGATGGAAAATAGGTTTA
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ATAG
Sequence 4044
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CCTNCCCCTTTTTTATTCTCAAGGATT
Sequence 4045
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Sequence 4046
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CTANAAAAAAACTTTGATCGGAACGTGCCCAAAAAGCCTGCTGTGCCATTGAAGACTGAT
CATCCTGTCATGGGAATACAGAGTGGAAAAAATTTTATAAATACAAATGCAGCTGATATT
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Sequence 4047
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTCACAAACAAAGGCTTAGAATTCCACATG
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GAAGATAAACAGCAAGGAAGAGCAGTTGTTTTGTGAAAAATAATCATCTGTTAGCTGTAA
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GCTGGGGGGAAATAAGACTGAGTTTGTGTGATTTCAGGT
Sequence 4048
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AACTGCACAGACAGCTTCAAAATGACATTTTAGAAAGTATAAAATTCTTCAAGAANAAAA
GAAGTCTTCATATAAGAAAAGGCAAGAGAAGCCTACAAAAGTAATATAAAGCATTACTNT
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GCTGAAAAAAAATACAACTTCTGACAAGATATTTTATTTGGCTT
Sequence 4049
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GGGG
Sequence 4050
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ATTAAACCCTTAATTTTT
Sequence 4051
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GTTGGATCATTTGTGGCCAGGAGTTCGAGACCATCCTGGCCAACATGGTGAAACACCATC

TABLE 1A
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Sequence 4052
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CGCACATTCTGTGCTTCGGTCATCATCTATTAAGGCGGGTTCTTCTGTAATCAAGGTATG
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CCACACTCATGTCNATCTTTCANAATCCTTAACAAAACGCATGGATAACTCCCTGGTATT
TTCNCAAGNTGNTGAAACACTTAAAANTAAACCACCTAGGC
Sequence 4053
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Sequence 4054
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AAC
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TABLE 1A
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Sequence 4058
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Sequence 4059
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Sequence 4062
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GACCTTTTGGGGAAATCNAATCATTTACCAAATCAGTATNTTTCTTTCTTTCTTTCTTTT
G
Sequence 4063
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Sequence 4064
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Sequence 4065
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Sequence 4066
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GTAGTGCAGCTACTTGGGAGGCTGAGGCAGGAGGATCACTTGAACCC
Sequence 4067
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Sequence 4068
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Sequence 4069
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Sequence 4071
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CCTCTTTTCTTCTCCCT
Sequence 4072
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TABLE 1A
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CATTCTGGGACGGAGAGGAAAGACAGGTGCCTGAGAGCGGAGCCCGCGTACCTCAGCTGC
GCAGCCTGTATCCAGTTTTTTTAATGTAAAAGTAAGAATGCCACCTTAACCTACCCTGCA
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Sequence 4075
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Sequence 4076
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Sequence 4077
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TABLE 1A
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Sequence 4078
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Sequence 4079
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Sequence 4083
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TABLE 1A
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Sequence 4085
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GCGGCCGC
Sequence 4086
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Sequence 4089
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Sequence 4092
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Sequence 4093
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Sequence 4094
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Sequence 4095
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CTGGATAA

Sequence 4096
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TABLE 1A
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Sequence 4097
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TTAA

Sequence 4098
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ACCACTTAAGATGGATATGAGTGACCCTTCCTTATCTCACTCTTCTCCTCCTTTCACAGA
AGCAGGATTTGAGGCCCAGAGAGGGAAAGCTA

Sequence 4099
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Sequence 4100
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Sequence 4101
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Sequence 4102
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Sequence 4103
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Sequence 4104
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Sequence 4105
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Sequence 4108
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Sequence 4109
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AACGGTATCCATTATGGTAATGTGGAAATCATAATTGGCTTGTGAGGTTAGGAGAGAGAA
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TGGAGCAGTATTTTGATTTATCCTTTTTATCTGATTACAGGGAAAGGCAAGACTACAAGT
TACTGAGCACCTCCCTGAGAAAAT
Sequence 4110
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GGTTAAATTGCTTGTGTCTATTAATTCTTTAAATATGATTTT
Sequence 4111
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Sequence 4112
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CTGACTTTCATATGTGTGTGGCTGCATTCTGAAATAGTTGTCTAGTTGATACATAAAGCC
AGTGAGTGCTATTTGGTAAGGATATATTTATATTTAAAGGTCTTCATACCGGTTATTAAC
TAGCTCCCAATATTACTGGAAATGGATTTTCTCCCAAAATATCCTATTATTTAAATTATC
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Sequence 4113
CCCTTTGAGCGGCCGCCCGGGCAGGTACATGATTGTTTTGGTTATAATTTATTTATAGAA
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AACTTCTTAATGTGGCATATTTCAACTCTCCTTTCCCACAAACAGCTTCATCTGTCTCCA
AGGTTAACATTCTGAAGCTGGAGAGTCCTTGGAGAAACTCTGCTCAGCTTTTTTGTGACA
TTTAGAAAAATGCATTTGGTATTCTCCAAACCAGAATGATACATTGTCTCAAAATCTGTT
AGACAGCTGATGGGTGTTTTTGAGCAAC
Sequence 4114
CCCTTAGCGTGGTCGCGGCCGAGGTACAATACATCATATGAAATAGAGAAANCTAACTAT
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AATACTAGGTCTTGTATGACCCTCACATATATTTAAGTTGCCATCTAAAACTTTATCATA
AGCTTCCTAGTTATAAAACATGGAGTTTCCTGTGTACAAAGCAGACTGCCCGCAAATCGA
CCGGTGGTAAAGCACCCAGGAAGCAACTGGCTACAAAAGCCGCTCGCAAGAGTGCGCCCT
CTACTGNGAGGGGTGAAGAAACCTTATCGTTACAGGCCTGGTACCTTGCCCGGGCGGCCG
CTCGAA
Sequence 4115

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CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATAAAGGATAATTTATATCTTATTAC
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GCCTAAAACTTAACATATACCATACATATATATTAAGGTGTCAAATAGCTATTCTCACTC
ATCTTACAAATATTGTAAGAGCAATAAAAATTAATTGAGGAATTATAAGCCTACAGGTCA
TCAGCCTTGAGGTGATTACTGATGATTTGGGCTTACACACATGTCANCAAGATAGGGAGT
GTGGATAGGGGAGGGCTGGTAGCTAACAAGGGGCCTCACAGAGAAATATTAGTGACTTTA
ACCAGGTTTCAGAATCTGGGCCTTACCTTTACAGGTTCAACAAAAGAATGGCATCAATAG
AG

Sequence 4116
CCCTTTCGAGCGGCCGCCCGGGCAGGTACACCTTCACTAACCTATAATAAATCCTTAGAA
GCTATCAAAAAGAGATTACTCTTTTAAAGGTCCCATCTGGAGTAAAATTCCATGACTACA
ATAGTCATTCTCGCTACGCTTTCTTATAATTTCTAAAGTAAATCTAGTAGTTACTCAAAT
AACATTTTTCCTCTTTGAGTTTTTTTTTTTT

Sequence 4117
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTGTTCGAGAATAAAGACTATACAA
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CAATAAGCCTCGCTGTTTTTGATCTCAATGAAAAATTCTAGGGCCAGGCGCAGTGGCTCA
CGCCTGTAATCCCAGCATTTTGGGAAGCTGAGGGAGGCGGATCACAAGGTCAGGAGTTCG
AGACCAGCCTGGCTAACACAGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTAGCCA
GGTATGGTGGCGGGCGCCCGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAANAATGGC
GTGAACCCGGGGAGGTGGAAGGTTTGCAA

Sequence 4118
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CTCTAGGAGCCGTGGTGCAGGTGCATGGTGCCCAGCACGGCACTGTCGTACCACCTCAAG
TGCCTCCCCAGCTCAATCTCCTTGTTACAGTAACCAGTCAGATGACGGCTCAGATACAGA
GATGGCTTCTGGTTCTAACAGAACACCAGTTTTTTCCTTTTTAGATCTCACTTACTGGAA
AAGA

Sequence 4119
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CTGTTTTGCTCCCTTGTTTTGATGTTAAACAGTAGCTTAAAGGCTTTCCCCCCCATACCA
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TTTTTCCCTTT

Sequence 4120
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AATAAGATTAGGATAGACTAGGACACCAGAATTTTTGAGCAACAGTTACAATTCCTATTT
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AAATACATGGATGATCTAGGACAAAAGGAAAATATTAACGAGAGGGTTTAAAAGTAAAGC
AAAGGCTGGGCCGCGGTGGCTCACGCCTGTTATCCTAGCACTTTGAGAAGCTGAGGCGGG
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Sequence 4121
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGGGCGCGGGCCTGTGAGCCAGTTG
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CAGGTAGCATCTAAAGGAACTGGTTTAAATCCTAATGCCAAAAGTATGGCAAGAAATTTG
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TAGCAGCTACATCAGGTGCTCATCCTGAGGGTAATGCAGAGCTNTCAGAAGATATATGTA
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TTTCC
Sequence 4122
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CGGAGAAAGGAAGAGCCCCGCGTACGCGGGCAGAAAGAGCTGAACACTCTGTGCAGCGAG
TTACATGTTGAGCCATTTCAGGAAGAAGGAGAGACGACCATCTTGCAACTAGAAAAAGAT
TTGCGCACCCAAGTGGAATTGATGCGAAAACAGAAAAAGGAGAGAAAACAGGAACTGAA
Sequence 4123
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CAGAGAGGTAGAAGTATCCTGAGAGAAGAAAATAGCGTCAAAGAGGGAGAAAGCAGCAGC
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Sequence 4124
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GTATATTTGAAGCATGGTGCTAAGCATTTAATACATATTTTGTCATTTAATTCTCATTAA
ACCAAATGAGATAGGGATAATTATTTTGGCC
Sequence 4125
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TTTTTAATTTTTAACTTTTGTG
Sequence 4126
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CACCTGGAGAAGGCTTGTGTCCAAATATACCATTGAAGAAAGCAGGCATTCGAATGCTAC
CACCAATATCAGAGCCCACACCAATAACTGAGCAGGCAGCTGCCAGTGTGCAGCCCTCAC
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Sequence 4127
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GGGGATATCTTTGCATCCCAAGCCAGAGGGAACCCCAATGACTAGTAAAAACCGGNGGGC
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ATAAAACCGGGGAANA

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Sequence 4128
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TCCAACCAGTTTTCATTCTCTGCAGACCCGGGCTTTCTTTTTATAAAAACTGCTTTCAAA
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AGTGGTAAACACACAAAAAAATACATTTTTTTGGACTAAAAATCTGGTCACGGATAAAAG
CATGTGCCTTTTCATTCTTCTCTGGGATGTTACAACAGCAACACGCTCTAAAACAATTAA
GTTACATGCATAATGCTAAAAGAATGTGAGCAATCCTATAACCAGCTTTAAGCCATCTGC
TTGATTTCTTTTTTT
Sequence 4129
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GTGTCCATAGTTTAGCTAAAATGATCTTTCTAGAATGTATGTGTGATCTGTCTAGAGCAC
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TCAATACATGCCCCTTTGGCTCTTCTTTAAACCTCNCCTACTTGTTTTNCTGNTATCTCA
NGTGGTATTAAATGANANGAAGGAAATAAAATTGNAAA
Sequence 4130
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CTTTTCATGGCCC
Sequence 4131
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Sequence 4132
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TCAGGGGGAGAGGGAAAGGGAAGGTCACCTCAATCTGTCCCACTTAACTAGGGAAAAATT
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Sequence 4133
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AAAGTGAGGCCCCTCCAACACCAGGGGGTTAATTCCTGTGATTGTGAAAGGGGCTACTTC
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ATTAGGGATGTGAGCCTCGTGGTTACTGAGTAAGGTAAAATTGCATCCACCATTGTTTGT
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Sequence 4134
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GATGTCCCTGAAGAGAAACCCAGTNACAGAAACTTA
Sequence 4135
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AAAAATTT
Sequence 4136
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Sequence 4137
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Sequence 4138
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AATTC
Sequence 4139
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CATCGTTCATTTGTAGCTGCATTTATCTCTGGTTTTCAAGCATTTCTATAAAATAACAAT
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AATATT
Sequence 4140
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GAGGCCCTGGCCTCTACTACGTGGACAGTGAAGGGAACCGGATTTCAGGGGCCACCTTCT
CTGTAGGTTCTGGCTCTGTGTATGCATATGGGGTCATGGATCGGGGCTATTCCTATGACC
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Sequence 4141
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GTATTTACATAATAAATACATAGTATACACACTAATATATAATGTATGTAATACTAAAGT
ATTACA

Sequence 4142
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TAAAACTGGAAGTGGAGAT

Sequence 4143
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CTGTAGTTTATTCTCATCATTGTCATCCTATATTAGTGATTTTCTTTAGCTTTTGAAATT
AAATTCATAATATTACAATTCTGAATTCCT

Sequence 4144
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAAGAAACTGAATGCTCATGTTTCCACCTGC
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GAAAGCCATAAAAGGTGTAAAAAGCCCTTG

Sequence 4145
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CAAATAGAAGGCTCAACTTTGACAACAGACTGTGGGTGGGGCTGCACATTGAGAACTGGC
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ACAAATTTCTTCTGAAGGAAACAATTTGGG

Sequence 4146
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTT
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ATNCTGTTTTGGTNGTNNGGGAATGGAAAAAAAACAGTGCCACAAANAAAATCTTTGCTC
TTTTTAATGACCTCCG
Sequence 4147
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Sequence 4148
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Sequence 4149
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Sequence 4150
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Sequence 4151
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Sequence 4152
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TCCGGCTTGATGTGGGGAGGGGTGTT
Sequence 4153

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TGGCAGTCTTGGTTTTCTGCTAGTGCTGCTGCGCTGGGGGGACGACGGACGGCAGCGGCC
AAGCAAGAAGAAAGACGTGGCANCAAGCGGGAGTCGGGGATAGTGTCATCGGTTCGGTAA
AGTTTCTGTTCTCTGATTTGGGGATATTCCCTGCCCAAAAAATTNCTGGAAAATTGACTA
GTATTAAGTGTGAGTAAAAGGNGTCCACTTTTTTTTAAAGTTTTGATTTTAGNTTTGNCT
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AAATGCTTTGGTACTGGGCTGGGTTCAAAAGTTTANAACTCATTTNTATGTATTAAAAAN
NGGTTTTTTTGGGTTTGAATTTTTTTTTTTAAAATN

Sequence 4154
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGTGCACAATGTGCAGGTTAGTTACATATG
TATACATGTNCCATTTTATATTTTTTGTANAGACCTNATTTCATCATGTTCCCCANNCTA
NTCTCAAACTTCTAAACTTTAAACAATCCTCCTATCTCAACCTCCAATTACAAAACATAA
ACCACCTTACCTAATCACATCTATTTTATTTCNATTTTTACTTTTTNAAAAAATTTTCCA
NAACATAATNCACTNCATTTTTCCAAACATCCAATATCAAAATAAAAAAATTTTTATAAT
ATAATCTAAATCAATACCAAAAACCATTCCATTAACATTTATTAAATNAAATTTCTTTCT
TTAACCTTCCCTAAAAACCTTTNAAAATTTCNATTTTTAAAAAAATCTTNAAAATTCCTA
AAAAAATANTTTTTTTCCCATATAAAATAACCCCAAACCTTTNATTTCATTTTTTCTTTT

Sequence 4155
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCACACTACTAGATGTTAAAACTATATGAT
TATTGGCATATACTGACTGACTGCAATATTTGTAGTAAATAGGGAAAATAAGTATTTAGT
TGGAGGGGATAATTTTGAATCNAATCACCTTGAAATGTTNNTATGGNAAATGGTAAAAAN
TATTTTCCTTTTTTCNTTNGCTTTTTCCTTTGGNGGNTAAAAAGGGNTAATAATAAATTT
NCCTAATTTTNNCTNANTGGGAAAATTTCCTTTAATTTTCCAAAANTTAACCNAGGTTTC
CTTATTTTAAAAAANGNAGGGTTNATTNACCCTTCCCTTTATTTTTGGNNAATGGGAAAA
AAAAAAAACAACCCCTTNATTTTTTTTTTTGGNAAAANTAAGGGTCNANGTTNTTNGNCCA
NNNCCTTTTGGATCTTTTGGTGAANTAAAAAAATTANCTTTAAAAAAANANAAANTAATT
TCTCTTTAAATCCANGNNAATNTTTTTTTTTTTCCCCCCCCCTTTTAAAAAAAANTTGGA
AAAATTTTAAATTCCTT

Sequence 4156
CCCTTTCGAGCGGCCCGCCCGGGCAAATTCCCATGATGTCAGACCACTGGAGTTTCCAGG
GGCAACACCCCATAACCGTCCCGCTGCAGAAGAGCATCAGAAGTTCAGAAGAATGCAAAG
GATCTCAGTGGGAACGCGGACAGGAGAGCCCCAAACCAACACATGCTAGGGCTCTCTAGG
CCCTTTCAGGCTAGATCTTGACGAGAGAAGAGTAAAGATCTTTCTGAGGTTGGTGCAACT
GAGGAAACGAAAGTTTCGGCCTCTGCTGTCAGATCTATGAAAGGAAAGAACTGTGACCTT
GTCCCCTTTTGTTTTCTTTGACTTAAAACAAAAAGAAAATCAC

Sequence 4157
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GACTTTTCATATTAAGTCCTGTCTTAGCCAAGGGAGAAGAATGTAAGGATAGGACCACCA
ATATCACAGGGGCTGTCTGAGCCTTTACCTGTGATTTTCTACCACTCTGTGGCCTTCTGG
AGCAATGGACAACCAAGTCAGCTATGCAGTTNATAAAAAGTGGGACCTGGTTATATGTCA
TCCAACAGCATATGGGCCCTGCAAGCCTGT

Sequence 4158
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACCTAGCTTTTATTCAT
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TTCTAATAAATAAGCATATCCAGGTTTTTCATAAATAAATGAGGAGTCTATAAATTCTTA
CTAGTTTTAATAGAAACATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGA
AAATGTTTTCATTTCCTTTATGTTTGAATGTTCCTTCCAGGTCTTTGAAAATATACATTC
TGAGTTGAAAAGCTTTATAATAGGTAAAACTCATTAACCCATATACTTTNCATGCTGGGC
ACAGCAAGGTGTGGGTAGGTAGAAAATATAAGATGACTCCCAAGATTTTTGCACCCTGGC

TABLE 1A
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ATACACATATGCCTTTCCAGTTGTTGAAACACTAATTTAGGTGCTGCTGTGAAGGGATTT
TGTAGATGTGAATAATGTTCCAAATCAAGTGGGCCTTAAGATAGAAAGATGATCCTGGAT
GGGCCAAGAATCTTATCAANTTGAGTCCTTAAAGGGAA
Sequence 4159
CCCTTTCGAGCGCCGCCCGGGCAGGTACGCGGGTGATAAAAAAAAAAAAAAAAAAAATGA
CTGCATTTTTAAGGCCTANCGCTTCAAAGGCTATATTGTCTTATGTGTCTGACTTTGGCA
TCTGCCCTTTCTGACTTTTGACCCTGCAGCCTTCAGCATGCCGGAAGTGAATGTGGACTA
TAATGCCAGCTCAAANACCTTGCGGTGTGAGGCTCCCCGATGGTTCCCCCAGCCCACAGT
GGTNTGGGCATCCCAAGTTGACCAGGGAGCCAACTTNTCGGAAGTNTNCAATACCAGNTT
TGAGCTGAACTCTGANAATGTGACCATGAAGGTTGTGTCTGTGCTCTACAATGTTACGAT
CAAC
Sequence 4160
CCCTTAGCGTGGTCGCCGGCCGAGGTACATACAATATAATGAAAACATGAAGAGATTCAA
AAGCTTCAATCATATCTCAATATATAAAATATCTTCAGAACGTAAAATATTAAAGCAAAA
AAGTNGGAGAAAATAATTNTATAAATGATCCAAAAATAGGAAAGCATGAATAACCATCTC
AACCACCATTTTTAAAAAAAAANCATGNTTCCAANAAAATTACNAGCCATAAACCCCTTT
CCAATACTTTACTTTTGGTGGAACCTTAAACCTTCCAAAAAACCTTGGNTTTAATTAANT
CCCCAAATTAATTTTCCTTNCATTTAAGTTGGCCCTTTAAATTTGGGTTTNAATTTTTTA
CNTNGGAATTAAAGATAATTAANCTTTCCCCCAAAGGCCGGTTTAATTTCAANCAAAAAT
TGGCCTTTAAATTTTCCAACCAACCCTTTTAAGGCCTTCCCTTCCTTTTCTCCAACCTTA
AAAAANCCTTGGGTTAAAAANGTNTTCNTTTTNTTGGGAGGGGNTCCAAANGGGGAACCN
CAAT
Sequence 4161
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTCGAGCGGCCCGCCCGGGCAGGTAC
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TTGTGAATTAATCAAAACCAAGTTTGATATGAAAATAAGAATAACACACTAAAATGATAT
GCAGCAGACAGGTCGCAAACTTGGAGTGATATTTACAATTCAAAAACCTAAATGATTAAT
GTCAAAATACATAAAAGACTCCTACAAATCAGTGAAAGAAAGCAATCCAGTGGTGAGGTG
GAAATGAACAAGAGATGCACATACATTTCACTGATGATCAACAATCAATAAACATGAAAT
AATACTAAACTTATTAATCAGCAGAGTGAAAAGTAAAA
Sequence 4162
CCCTTAGCGTGGTCGCGGCCGAGGTACCATTCATAAAATGCCCAAAAGAGAGTTGGAATG
GTTATACTATATGATGTGTTTTGTTTTTGTTTTCAATGAAATTATAAATGAAAATGAAAA
CAAATTATGCAAAAATTTATAGAATGCAGCTGAAGCAGTGCTCAGAAGGAGATTTTACAG
GCCTATTTTTAAAAAGAAGAAAGATGGCAAATCAATAATGCAGCCTTCAATCTTATGAAT
TTTTTTAAATAAAAAAACATACTAAACCTGGAGCATGTATTAGTAATAATACATACTAAT
ACATATTAATACACAAGGAACAAGC
Sequence 4163
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTCTGTTCCCC
AGCANAAGAAAAGAAAATCTAATAAAGGATTTCACAACCTACCATCGGGATGATCTTGGT
CACGCACAGAATGATCTGTCACTTCACCGCCTTTTGTAATATTTTCATCCTTTGCAAAAT
CTAACAACAAACAAGCAAAACCTTTGGTCAGCATTTTTAACTTGGAAACAGAGCAGCTTT
CAGCACTAACATGATANATTTATGTTTGAGGAAAAATANAATTTATTCGTTTTAAAAATA
ACCACTCAAATACATATGTTTGCCAAT
Sequence 4164
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATAAGAAATAAATTCAAGCAGAAGAGCATAA
TATTTTTATTCTTCATGAATACAGTGTATATGTAAACTACTTTTGTTTGGTCTCCTAGTT
TTAAAAAAGCACTTTTGGCTTTCACTCAGTAACACTCCAAGTACAAGACTCAAGTAAATA
GAAAGGCAGCTTTCAATCGCAAATCAGTTTTTCAGATTTTACTGTGGAAGCATATTTAAT
GCACACATTTGAATGTTACACATAAATAATTTTAACGATGGAGTCCAAGTTCTGGATTTT
ACATTAGATCTGCATATATAAGACACTTGTGGTCAAATTTCAAGATTGGTAAAGCCAGTT

TABLE 1A
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TCAAGCTGCTTATATT
Sequence 4165
CCCTTAGCGTGGTCGCGGCCGAGGTACTTCCACTCTTGTTTCCAATTCACCCCAGGTCAT
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CTTGGCAACTGCAGGAAATGAAAGCATTTGTCCAGATCTCTGGCAAAGATGGCACTGTGG
TGTTTTCTCTGGGGCCAGGTTGTGCAAAACCTTATAGAAGAGAAGGCTGATCTCATTGCT
TCAGACTTGGGCCAAAATTCCACAGAAGGAAGACCCACTACATTATCTGAGACAATGGGG
GAAAGCTGACGTATGGGCTTATTCGAAACTCCTGGAATTTTCAAGTTTCCATATCCACTT
CTTACCAAATGTTTGGATTTTGGTTGGAGGGACTTCCACTGGCAAACCTGCCAAACCCCT
GCC
Sequence 4166
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AGAAATTAGACAGAGGACCAGTTTTCCAACAGAGTGCTATGTAGCTTCCACTAAGACCAA
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TAAGGAAGCTGTTAAGCTGGATATATATAAACTAAAGTAAAACTCCTGGTAATTATCTAA
TGAAAATAAGATTCTCAACATAAATATGTTTTGAACTTCGGGGCTGAAAAATTATAAACA
TAATCTNAACCTGCATTATTTTTTCCATTTCCTTTAAAATATAACCCA
Sequence 4167
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TCCTTCTTATCACAAATGCTATGCAGTGGCTTGGCAGCAGGATGCTAGCTGACCTTTAT
Sequence 4168
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GACTATATCGTAATAGGCAGAAGGTGGCAGCGCAGGTATGGGTCGTAAGAAGAACCTTAT
AGGAAAGGAGGTCAACTTGCCCCAGTGCCATGAGCTCAGCACTACAACCTGGTGCAGGAC
TTCGAAGTAATAGAAAGCGAGGCTGCAAAGGTGGACAGGGACCTGAAGACAGAGGGCCAG
GTTAGTGAGAGCAGACTTACCACGGGCATA
Sequence 4169
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TTAATGGGGGACTTGACTTTCATATGGTGTGTTGGCTGCATTCTG
Sequence 4170
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GCTTCTAACAATCTCCTTATCAGAATTTCTAACATATGTAATGATNAGAGAGAGAAAAAC
TGCCACCACAGGATCAAATTTCATTTCTTAATCTGGAGAAACAGGAGTCTAGTTTTTCCA
Sequence 4171
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TABLE 1A
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GGTCCAGCCCTGACACCTACTTTTGCTTTTTTTCTTTCTTTCTTTTAATTTGTTGAACTA
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AACCATTACCACTTTCAATATGTAATTAACATCCTCATTCATCAGAAAGCTGGTAAGTCC
ACACAGCATTTGTGCAGTATNCCTTCTGTGTNAAATGGTAAAGGCTTTAAGATGAAAGAA
AAAAAGAACTTTCTGCAAAAGACAAAAGCATCATACTAAATAAAATGGATGACATATGGC
CTTGATTTTTTCTTAATGGAGGTCACANTGGCATTTAAGAAGGTAAAAAAAT
Sequence 4172
GCTCNAGCGGCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGC
CCGGGCAGGTACATTTTATTGTGGCCGGTGGCCAGGGGGGAGTGGGGGCGGTAGTCTTTT
GCATTTACTAACTCCTTATTTAGACATTACTCCTCCAGGTTTAGAAAAAAAAAGCCATAA
TTTTTTATGTCAGCAACTGCTATTGATAACAACAACAGTAATAATAGTAGTAGCTATCTT
TTATAAGATGCCAACTACATGTCAGTCACTATATTGGGTGTTTTTGGCTGCCCGGATTCC
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CAAACCAGCTTGTCTACTTCTTAAACTATGCCTTCAGTATTTATTANGAACCTCGATATG
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CCCAAGTGAATTATAATTAACTGCGTCACATTTATCATTATACTGACCTTTGAGCATTCC
CCCAACTCACANTATTTTGTTTCTTAANTATGGGATATTCGCTTGCTTTGTGAAAAACAT
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TCCAGTTAATATTGCNCCATTTACATTAAANAAAAATGGGCCCAAAATTTCCGGAATCCG
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ANCCGGAAAANGGGNTNAAAAAAAATCCNT
Sequence 4173
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AGGGGACACATTTCAAACCATAGCAGAGACCACTAAGTATAGGGAAGACTAAACCCGAGA
ACCAAGTGGCCAGAAGCCTGCACTAGCTCAGCTGATTCTGCTATTACACTTAGATAAAGT
ATGAGCCTTTTGCTACTGAATCAACAGAAAGGCTGCCCGAAAGCAGTGAGTCTCAGATGC
CTCCCATGAAGTTCACACATCACACCAGGGACTTCTACTCATACGTGGAAAAGCTAGAGA
ATCATGGTTTTAGGTAGGCAAGGG
Sequence 4174
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CTCTGAAATCAATGTGAATTTAACTTCAGTTCCATACAGAAACTTTTTTTCCACAGGAGT
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GTTCAAGCTATTTTCCTGGCTTAGCCTCCCGGAGTAGCTNGAATTACAGGATGTGCCGCC
CCCAT
Sequence 4175
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GACAACTCTATCAGAAGCCATCATTTCTAGGGATGACATTATCATTATANTTCAATAACA
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TCCNAAATTGAANTGGAGGGCTGGTAGTTAGCCCTGTTATTTTAATGATGTGAGGCTTTC
CATATCAGGTNTATTGTCAGAGAACCATCTGCGAAGGCATCATAGAAATGTAGGTGCATC
TTACTGAAGTATTTTCTCCATGATTTTT
Sequence 4176
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTGCACAAT

TABLE 1A
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GAAATACATTACCTCTTCAAAAAAATTTTTGTGAATTAATCAAAACCAAGTTTGATATGA
AAATAAGAATAACACACTAAAATGATATGCAGCAGACAGGTCGCAAACTTGGAGTGATAT
TTACAATTCAAAAACCTAAATGATTAATGTCAAAATACATAAAAGACTCCTACAAATCAG
TGAAAGAAAGCAATCCAGTGGTGAGGTGGAAATGAACAAGAGATGCACATACATTTCACT
GATGATCAACAATCAATAAACATGAAATAATACTAAACTTATTAATCAGCAGAGTGAAAA
GTAA

Sequence 4177
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTTCACATGGGGCCAATCTGTCTTTG
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TTTAAATACATATCTCATGTAAAACGGGAAAGATAAAAAATATTGAAAAGTGAAGTTTTA
AAACCTTATACTAAAGATCTTTATACTGCAGTCTGTCTCACACAATATATCATTGTCTGG
CTTTCAACAACAAAAAATTACTAGGCGTTCTAAAAGACAAATAAGTCACAGTTTGAAGAA
ACAGAGCAAGCATTAGAACCAG

Sequence 4178
CCCTTTGAGCGGCCGCCCGGGCAGGTACAGACCGTTCATTTAGCAAACTCAAATCCAGCC
CACCCTTACCGTTTCCACCGCAGCCAGCTGGAGCTCTGTGACAGCAGCATACAATTCTTT
CTTTGAAAGCCGATTCTGGTGATAAATGTCACAAAGGAAATCTGCACTAGGCTGCTGAGA
ATACTTCTCTAACCGGTTGTCGATACAAGCTTTGACTATTAGAGCAGAGAAGAAAGAGAG
GAAGTCAGCTGAAAATTGGGATGAGGAAAATCACAGAAGAAAACCTCAGTCCAAACTCCT
TCTTGCAATATCTAAATAGTCTTTTCAGGAACACTGACAATTTGCTACACACACTAATTA
TATTATTGCCTTCTTGTCAAGTCGGCAAGGATTTTTCAATACCGACATGAGCAAGGCTTC
TCAAACTTTAATGTGGATAGGAGTCACCTAGGCATCTTCTCAAAATGCAGAATCTGAATC
ANGGCTTGGGTAGGCCTGGAACTCTGCATTCCTAATAAAGCTTCTAGGTGATGCTTGATG
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TGTAAAAGAAGGTAGGANTTG

Sequence 4179
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATATTGGTTTTATTTATGGAATTGTTT
TATAGTGCATACAAATCAGCGATCAGCCAGCAAATATTTTTCTTTGAGCTTGTGAAAGCT
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CGCCTTTCCCTCCCCTGTTTTCTTCCTTTTTCTTTTTGCTTGCATGCACAAGGTAGGACT
TACTTCGTAAGAAACAAAATGCCAGTATTTTCTTAAGCCATGATGTGAAACCAATGACCC
TGTGACCACATGGCACAGAACA

Sequence 4180
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATAACCATG
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GAAGTATACTTAAAGGATATGCTCTTTCCATGTTTTGCTTATTAGAATCCACTGATGTTT
TACCAAATGAGAAGAAGCATAGCATTCTTAANAAATATGAGAATCCNTNAAAAACAACAT
TTCCAGGATTTTATCTGGTATT

Sequence 4181
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ACATAAAAGATTCCNGTTGACAATGCATTTTTTCATCTGTTCGGCACAATGCTTTTGTCA
TAATGGAGATGTGACAGCAAACTTTCCAGGACATTCAGTCTTCGGCGGCAGCACTTAGGG
CAGATGACTNGCCGCTCANATTCTCTATCTTTGTTTCAGGACAGTGGAA

Sequence 4182

TABLE 1A
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GTCCAGTATAGAAATGGCTTCCAGAGACACTGCAATCTCTACTGTGCTGATTCACACTGC
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TACTAAATTACTAAATAACCTTAGAGACTAAAGACAATACAGCATTGTGAGATAATTAGG
GGGTATTGTCTTTAGCCTCTAGGGTTGTGGTAAATCTGGGCATCGTCTCACTGGATTCTC
GACTCAGGATCTCATAAGGCTAAACTCAAGGTGTTGGCTTGGTTGCATCCTCATCTGGCA
TTCAAAAGTTCCTTT

Sequence 4183

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCGTCCTGAGTGAGTTGGAATTTAAAACCTT
GGTCTCAGGTTCGTAACCTTGGTGCTCCAGGATTAGATTAGGCTTTTCTGAGTGGAATAC
TACCATTTCAACCATTCTAAGGAGTCAACGTTCTTATATGATTAACTACAGAAATGACTT
TCAAGAGCTGGTGTGATCAGTCTAACCCTCTTGCTTAATGACCAAATCACTTTTACTATT
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GAACAAATATTATCTTGGCAAAACATTTGTCACAAATAGGTGAGTTTATCCTGGCTTCTT
AGGGAAAGGAGGCTTGGAATATATTTAATNGTGTTAAGATAAGCTATTTGCTTCTTTTCC
CTTTCTACTGNATTCCCATTTGNAAATTTGGTCCCCAAACCATGCCAGCTTTTACATTCA
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ATTCGCTNTCATTCTGATCTATAAAAAAAA

Sequence 4184

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTATTCAGACTTAAGAAACATCAGGC
CTTAGACTTTTGAAAAACCACATCTTTAAATTCTGTAGCAGTGAAAGTCCAGAGCTCTCA
CACAAGCTCTGCTCTTGTCTTAAAGAAGGGAAAGAAAAATATATCTCACTTTTACCAGTG
AGCTTACAACTGAGGAAACAAGACAAAACTTATTCCTCAGTCAGATTACTCGGCCCCACA
AATGTTGAGTAGAAATTGGTAAAGTATCAAAGATCAATAAGATGAAAGAAGGCAACACAC
ACACACACACACACACACACACACAC

Sequence 4185

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAACTTGTGGATCCATCAATGAGGCATCTG
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AGGAGAATTAGAAAATAAAAGGCAGAGTCTAGAGCCATGTCAATATCCTCCCACAGAATG
TGTATGGAGAATATTCCACTGGGAACCATGATAGATAAAAACTTACCAGGAAGAGCAAAA
CATCAAGAGAGTCTGACAAAAGCTCTGCCCTCCTCTGTAACCCAGCAGCCTCTGCAGAAT
CATCCTTTCTTCATTGTT

Sequence 4186

CCCTTTCGAGCGGNCGCCCGGGCAGGTNCAAGTGCATACAAGGGGATGATAACCNACTGN
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ATATATTNTCCTTATAAAAAACCCTAAANTCTTTATTAAACATCCAAACCTNNCTNTATA
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AAATTCTTCANCTATTTAACACATTCCNTAACCANNAATATACTCCTCTTNTTNNCACCN
CTTACAAAAGTTTAAAANAACTTTNTAATATTTCCTCCAAAAAATTNACCCCACTNTTTT
TTTTNAAATTAAACATTTTTTATTGCAAATTTTTTTTTTT

Sequence 4187

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGGGGACCGGCAAGATGGCGGCGCGGACAGCG
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CCATGTCTTCTTGGAGAATTTATAATGTGTCCTGTTGGTTCGCAATAATACTTCTTATTC
TGAAGTCTCCTTTATCTGAAATTAATATAGCCACTCTAGCTTTCCACACTCACCTAAATT

TABLE 1A
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CAGCCTTTATTAGTTCATTAAAAATTATTATTTTAATCTTCCTACTGATTTGTATGGCAT
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TCTCCCTACAGATTTCAA
Sequence 4188
CCCTTAGCGTGGTCGCGGCCGAGGTACTCATTTCTACTTGGTATATGAAAATAATATATG
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GTGGCATTATTAGTCTCTACCTCCAGTGCCTCACACAATTCCTGGGCACAGAAAGAGACA
TACAATTCATGTTGGGTCAATCAAAGAATGATTGATCATTGGCACCTCCTGATTCTATTT
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TTGGAGAGGATGTTTTGATGGCTTGAGATCTTTTAATTTCTTTGAGTTACTTTCATTGTC
CTTCCCACCCCCCAATTAAAGGCAAACAATGGGCACTTTGCTCTTGCTTAACCTAGATTG
TCTTCAAAAAACTATTAAAAATGTTAAAAGGCTTAACANAAAAAACAAAAAAGACGTTTA
ACAGATGTCAAAAAAGCTTCCTTANTGTTTGAAAAATAAATGCTTAAAACCAAAAGA
Sequence 4189
CGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGG
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AGGGGGGCAAGGTATAAAAAACCACATATTGGGTACGCGGACTTGTGGCAATTCTCTTGT
CTTGCTGCAACTGTTATTGAAGCCTTACTTCCAATTTCACTTTGAAAAGCACATAATAAT
GGCATTAATTTTGCTTTGATCTGAGGCTTTCTCTGATGACTGAATACTATAATTTGCCCA
ATGCGCTGACTTTGATATGTTTTTCTTGATTAAGCTTACATAGGTATTGCATGTCACAAC
TGGTGGGCTATAATAATTTTATAGTTGACTGAATGTCAAATTAAAAATGTGTATGAGATA
AGTTAAGGATCCTATCCCAGTTAATTATTCACATGGGATTCCTAAAATTTTGTGTTAATG
AGCTGAAACATTCTGAAAGACCAAATGCCTGNAATGTTTTAAAAGGGAGAA
Sequence 4190
CCCTTAGCGTGGTCGCGGCCGAGGTACAAATAATATCCAAAGTCTGAAGGCTTAAGCTGT
CATCACAGAGTTACTAGAGGACACTTATCTTTGACATGATCTGATATCAGAAACGAGTGT
AGACTTGTAGTCATTTAGAACTCAAAAGAGATCTTAGAGTCTTCTAGATCAGTGGCTCCT
AAAAGCTACTCAAGAATAGGGCTCATGTTTTTAATGGGGAACTTT
Sequence 4191
CCCTTCGGCCGCCCGGGCAGGTACCCCTTCACATACTCAAGGNCAAGATGGGTTTGCAGA
AATCATATCTGACCATCTGGCCTCTGCTAGTAGATATGGCCCCATCCCAGCATTTTTAAG
AAGATGTTTTNTGTTTGTATTTATTTTCCCCCAATGGGGGGTATAAAAATCTACCAAATA
AGGGAATTATTAAATTGAAATTCCAANGANATTAAAAAATACANTCTTCTACCTTCCACC
AANAGNAAAAACCGNTTTCCTTTAGGGNGTTTAAAATGGNGTNTTTTTTTAAGATTTNGG
CCTGGGAANCCCTTTAATTTTCCNAGTCCANCAATTTTNATNTTTTAAAAAAAAGGNTNG
GGCCAAAAAAAAATNTTCCAAGNGGGNNCAAANTTCCTTGNAANNAAAATTTCCAAAAAA
AAGGATNGGGGCCGGGGCCCCAACCAAGGGTTTTTTTGGGGGTATNGGGAACCAACCTAC
CAATTNCCAATTACCAAAANCCCCCCCCATTT
Sequence 4192
CCCTTAGCGTGGTCGCGGCCCGAGGTACAAAGAACTATTGGGAAGGTCACACAAGAGATA
TGACCCAGGCTTAAAAGGAAACATGCATCAAGGATACATTAATATAAAACTTGGAATCTA
GTAAGAAAGGAAAAAGGAAAGTGGTATATTCTTAAAGTAATGACAGATTGTTGGAAGAGA
TGATACAAACTTTTTAAAAAAAAATGCCTTTTAACAAATATTAAAACCTGCAAAATGGCA
CTTGTGGTGATTATTCTGGAGAATAAACAGATTACATAAGATTTTGTCAGGTGACAAATG
TACAACTCGGACTAAATCTGGTGAAAAGTGTTTAATTGGACAAATAACTGATAAGCTTAA
AGATAACCCAGCACAATTTCACAAGAGAACCAGCTCACCCAACTAAAAATTTCTTAATAG
CAATTGACACTGAAGTTGTATTAAGTGTATAAATTAGTTGATGAAACTGAACAAATAGAA
AACCCATTCCTCCNTTTCCT
Sequence 4193
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATG
CTGTTTTTCTAAAAGATTTCTCACATTGGCAAACTGAGAGATTTTCTTTGGAACACAGGA

TABLE 1A
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AAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAG
AACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATTC
AGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGA
CCGCTGTTTTGGATTTCATTGAAGATTACTTGAAAAGAGTATGTAAACTTTACTCAGAAC
AGAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAG
AACCAAATCAAAGACAAGAGAATCCACATCTTCTGAGAAAGTTTCACAGAGTCCTTCAAA
AGACTTTGAAGAAAACCCTGCCACTGAAGAACGTNCAGAAAAAATTTTGGCTGAAACCCA
ACCTGAATTGGGAACCGTGGGGAGAATGGCAAAAGGCGA

Sequence 4194

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTAAAAAAATTTTAACCTGGGAATATTTTA
ACTCTCAGCATTGAGATGTATAAGGAAAAGCTCTCTGTGATATTTACACAGGTCCATTTA
CATTTTTAATGTTGACTTTGGAGTTGGCACACTGGAAAAGAATTAGAGGTAAGATGACTT
GATAAAGAAGCTTTTTTGCTGCTTACAGAACTAAATCCCTTCATATTGAGCCTAGAGTTG
GTCCTTCTTATCACAAATGCTATGCAGTGGCTTGGCAGCAGGATGCTAGCTGACCTTTAT
GCAAATTGTTCAAACA

Sequence 4195

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTCTTTTTTTTTTTTTTGTGG
TATATGTATATAATTCCGTGGGCATGAATATAGGCATATGTTAATAACAAAACAGTATAT
TCCATCAGTAATGCTGTGTCATTCTTCTTCCTTTCCCCACTATTCACAAGTAACAGTAAC
AACTACCATTTATCAATCATAGGTAGATGCTAAGGGGCTTTTATGCATTATCTGATTAAT
AACTCTATGAGGACAGTTCTATTATCCGGATAAGGA

Sequence 4196

CCCTTAGCGTGGTCGCGGCCGANGTACCTGCTGCCTATCCGCTGCATCTGAAAGGGTAGC
TTATCTAAGAAGTTGAATGAAACAGACTTCAAATGATAAACAGAAAGTTATTTCATCAGT
CTTTAACACTTCCACCTAAAGGTTCACAGAAGAAATAAAAGTCATAGAGACTAGCCTCAA
GTTTTCCTCTTTTCTTGTTAAAGGTCTGTGGGAGAGAAGGTAAAAATAATCAAAACATTT
TTCTTTTAATTCAGTTATTCATGTTCTTTCTATTTTAAATTGTTGAAGATNAGCTAGCTG
TAGGTTTATTGTTTTAAATCACAGCTCTGACTTGACATACTGTTTTTAAAACTTGNGGAT
GTGTGTGNGTTTTTTTTTTATAAAGAAANGAGAAGTCATTACTTTGATTTTATATTCATCA
TAGTCATTGAAACTCCTGACCTCANGGTGATCNGCCCACNCTTGGCCTNCCANAGTGCTG
GGATTAATAGGCATAAGCCATTGCACCCTGGCCCCA

Sequence 4197

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GGTCGTAACATTGGTAGGGATGAGAAACAGTAGAATGCTGGAATACTTTGAGGGTTGAGC
CAAAGAGATTTGCTGCTGGATTGGATGTCATATGTGACAAGTGGAATAGTCAAGGGTGAC
TCCAAGGTTTTTGACCTGAGCTTCTAGAAA

Sequence 4198

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GCCATCTGCAATGTCAAATGTAGCCCACAGTTGAATGAATATGAGGACAGGGAAGTGTCC
CTTGATTTTGGTGTTAAGCAGCTGATTGCCACCTTCTGTAGAACAGCTTCAGTGGAGTCT
CCATAATAGAAATAAATGCCAGGTTGCTGAGGACTAAGCGTGGATATTTGTTGAGAGTGG
AGACAGTAAGTGCAAACATTCTTTTCAGAAAGCTTTGCTCTTTTTGAAGCTTTGCTCATA
GGGAGATACAAGATAGTAG

Sequence 4199

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CTACTTGGATGTGGCCTCTGTCATGTCTGCTTTTGTTCCTTTGGTCAAAGCCAAAAGCCG
ATGGGACAGGGATGCATGGGCCTCCCACTGGGGACATAGAAAGCTGCATGGCAGTGGGCA
GGAATGCACTCCTCTTACAGGGAGAGGGGTGGTGTCAGGTTTTAACTGGGGTCCGAGGGG

TABLE 1A

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AGTTGGTGGGGTGAGTGGCGGGTAGCTGGAGAAACACTCAAGGAATCGTANACAGTTTTG
ACA

Sequence 4200

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTAAAGAAAGCGCTTTAAAGTAT
GGAAGGCCCACAGACTGTGCATTTAATTACTGTTCATATTTCATGCAGTCAAACTGAATT
TCATTTGAAAAGAAAATGATTTACCTATCTTTAAAAAGCCTTAATGTTCTGCTTTGTTTT
GTTTTGTTTTTTTCTTCCAGGGTTATATATTTACAAATAGAAAAACTAAATTTATCTCTA
GAATTTGGAAAATCACAGGACATATATGTTAAATAAAGATTCTGAATATTACAGTGATTG
AAAAGACATTTACCCCCACTTAATGCAATAATTTGAACCAGAAAAGCCTTGCATTTTGAA
AAAGTTTAGAAATCTTTCTTTTAGGTTTACAAAGAAAAAGCGGCCTTCATTTTATCCCTT
AGACTTCTGTGTCCTCCACCTGCTACATTACACTTCAAGAAATTTAACTTATATCAATCA
AAATT

Sequence 4201

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GGGGAAGACTTTNAAGGTAAGACATCCAAGCTGNCTCTTGAANNANGAAAGATTCATCAG
TTAAAATGTTGTGGAAGAAGGACATCCAAAAGGGAGAGCTTGCACTGAANCANGGAGGCA
TAAGAAATCCTGATGAGTCAAGGAAATGGGGTTTTAGGATGAATGGACTTNTGAGTGTGA
GATAGANAAAGGCTAGAGACTGGNGTGTTGGA

Sequence 4202

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGG
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TCAAGTTGCCANACCATCAGTTTCTCTACTCCTTCAAAGCTCTTCTGAGAATGAACTACT
ACCAGAAGATTTTAAGGGCAGACAGGCAGTCTGCCCAGGAGACAGTAATATTCCTACCTT
GACATCTAGCTTGGCCAAGTGCTGTAAAACCCAGATGCGATGGGACCAAGCATTATAGTT
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TTCCTGAATTANCTGTTGTAGCACCCATCGCCTGTGAATCCATGTTTCTGGACTCTTTGG
AAACTTGGTTAAGGCGAGTTTTCCAGATGTAAATCCTTAATT

Sequence 4203

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GCTTACAATGAAAAATCAGAGACTGGTGCTCTTGGAGAAAACTATAGTTGGCAAATTCCN
ATTAACCACAATGACTTCAAAATTTTAAAAAATAATGAGCGTNAGCTGTGTGAAGTCCTC
CAGAATAAGTTAGGCTGTATCTCTACCCTGGCTCTCCAGTTCAGGAAGGCAACAGCAAAT
CTCTGCAAGTGTTCAGAAAAATGCTGACTCCTAGGATAGAGTTATCAAGTCTGGAAAGAT
GACCTCACCACACATGCTGTTGATGCTGTGGTGAATGCANCCAATGAAGATCTTNTGCAT
GGGGGAGGCCTGGCCCTGGCCCTGGTAAAAAGCTTGGTGGATTTG

Sequence 4204

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GAAAGGGAGCCTGGCACAGGATGTGGCCCAGACCACACAAGACTTTGTAGCCATGATAAT
GATTTTTACTTTTAGCTTAAGAGCAAAGGGAAGCCACAAGTCAAGAGAATGACATGATGA
ACTTTGATTTTGATTCTGACTTCTGCGTGCAGAATGAATTGTAGAGGAGCAAGAGTGGAA
GCAGGAACAGCT

Sequence 4205

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGATTGCAGAGGATAATACTCAAGATGTTCT
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TTTGAACTATTTCAACAAGCTTCTTCATGTAACTAATCTGCGGAAGGTAGAAAGGGGAAA
ACTGTTGGGTGCTAAAATGACAACTGGTTCAAGACCCAAGTAGGTGTTCACAGTCAGTCC
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TABLE 1A
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AGGGAAACAAACAAGGAGGAGCACG
Sequence 4206
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GATTGACCTGAGTGAGAACACTGCTTCTCTTTTGAAATAACTCATCAATTCGGGATGCTG
TATCTTCTAACAATGGCACTGCCCCACTCTCCAAAGTCAGATAACTTTGTTTCAACTCAT
CTAGTGCTTTGGATTTAATTGCAAGTTGATTTTCTATATCCTGACAGTCCAGGAGCAGCT
TCTGCACTGAGATCACACTTTCAAGTTTTTGTAAAGTTTTCAAGTCTCTCTTCTTGNGCT
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GAAGAGGTCTGGGGAAACAGCTTTCACAATTGGTATTTTACTCATCAACCACTTATTTCC
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CACAAACACCCCCCCAGGTCTTGGGTCAACCGGTGAAAAAAANCCTTCCAGCATCANNGG
GCTTTTNTCTTCNACCTTTCNTTTGANGCGGCCAACTTGCTTTGGGTGGGACCAAGCCCC
GATAGNCCCCCTTCCNTGATGGGGCGG
Sequence 4207
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CAATGCCTTGTGCCAGCCACAGAAACTCAGTAACAGACTATTTGACAGAATGGTGTCAAT
TTAATCATGACATTGCAATGGACTAT AGGAAGAGTCAATAAAACACTGATAGTGGAGCAA
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TCTATGTTGTCTATAGCGGCTTTCACACAGAAACTGCACAGTTGAGTCATTGTGACAAAA
GACTGTATATCCCACAAAGCTTAAAATATTTACAATTTGGGCCTTTTAGAGAAAAAGTTT
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TAATATTTAATTTCTGATTGNGGGATTGANATTAGATTTCTCCAACT
Sequence 4208
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CTACTGAAAGGCAAA
Sequence 4209
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Sequence 4210
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GGTGGGAGGAGGCCCTGCTAAAAGGAATCCCCCGAGGGCAGGTGAGCAGAGCTNTGGACT
ACCAAAATCAACAGCATGCAGACAGACACAAATCAGCGTCCAGGGCATTCCCTGGACTTG
GGCTAGCCTAGGTTCACTGAGGCAAGGTCTTNCTTGGCGGTCAAAAGCCACCTANTTTCC

TABLE 1A
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AAGGAAAATGAGAATCAGATNCGCACGTGATAATCCTGGACTCTGGAAGTGGGCTCAAAC
CTNTGCGTTCTTACCTGTTTTTGTTTTCCANTTTTGCAATAAACCTGNCTTTTGTNGTTT
GTNGGCANCAAAAGTTAAAGCTCAAGTCAGTGGGGAGGANCAANTTTAAAAGTGGGGAAN
GTGGGGGANAAAAGTTTTTTTTTTTT
Sequence 4211
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCAGATGTGAATAATACCACATTTGTAAGTT
GACTTAAAATTCTGAAATGATGCTTCATCAGACAGGGTTCTTGTATAAAAGAGAGTTTAA
CCTCGAGTTATGAGCCTGGGAGGGAAAAAAATAAGGGACAGTGAAGAAGGATTAGTAGCG
TTGGTGAGTCATTACCACCCTTCAGGCTGACCAGTCCAAGGAGAGTTGAAATCATGAAGG
AGAGTCTATCTGGAGAGAGCTGTAGTTTTGAGGGTTGCAAAGACTTAGGATGGAGTTGGT
GGGTGTGGGTTAGTCTCTAAGGTTG
Sequence 4212
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTGAGTAGATGCATTGAGCCTCTCAGTAA
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TTGCCAACAGCCACATTTCCCAGCATCTTGGATGCAAAAGGGGGTTTACTGACAAAGCAA
AGCTTTTACATTGGGCCTTACAGGCACAGGAAAATCACCAGCTACCTCAATGCACAGTCC
CACGGTAGCATTCCTCCGGTCACTCTTAGAAAAGGCCCAAGTCATCTGGGCGCCTGGACT
CACCCGCCCCAAGCAGAGTGGCCCTCATCCTTCAGAATGTGGATCTGCCGAATTGAAGAG
GCCTGATTTCAGCTCCACCAGATGCAGATTTGTGTTTTGTTTTCTTGTTATCACTGTCAC
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TGAAATTCAATATTGGTTTATGCAAATACAGCAAACTTTTATTTAAGTAGATAGGAAAAT
ATGTTTAAAATATTANGAATNCTAAACCATATTTTCAAGTCATTTTAACAGCTAGGATTC
TTAAAATGGAAGTGTTATATATAATATGTTAAAAAACANTTTGCNTTCCTGGCTNAATAN
TTGANCCCTTTAAAAT
Sequence 4213
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAGCTTTTATTCATTTTATTATTCATCTTT
ATTGCTTTCATTGCACATGCTGTTAACTTCTTATGAACTCTTTGTTCTAATAAATAAGCA
TATCCAGGTTTTTCATAAATAAATGAGGAGTCTATAAATTCTTACTAGTTTTAATAGAAA
CATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCATTTCC
TTTATGTTTGAATGTTCCTTCCAGGTCTTTGAAAATATACATTCTGAGTTGAAAAGCTTT
ATAATAGGTAAAACTCATTAACCCATA
Sequence 4214
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGGGAATATCTTTACAGCAGCAGTGG
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CATTAAAGTATTAANATTAAATGTGTTA
Sequence 4215
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TTCGAAAGAATATATTTGATCTTTTTTTCTAGTTACAGATATCATCATTGTTCACAGGAG
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CTNATCACTTAGTAAATGTTCAGCC
Sequence 4216
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TABLE 1A
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GTGGCGTCTTTGCCTGGACGATTTCTAAAAACTAGCTGACTCGTCATCTTTAAAACAACA
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GAGCAAAGAATTCCAAAATTTAGGAAGTCACTATTTCTGTATTTCCTTCTAAGGAAAACC
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GTGATTTTATTTGGGGTGATGGGATTGGGACTTAATTTTCTCTTTTGCTTTTTGCTGTGT
ANTTCCAGATTTTANNTAGTGAAACTTAATTTTAAAAACNCAACCAANTTTNATGTTTGA
TGTATAAATTTATAT

Sequence 4217

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTAATATTTTTTTCAAGTTTTGGTAAAGT
ATGAAATAACTCTGGATTAAGAGGAGAAGAACTAGAACTTAATAACCATGACATTTGGGC
AAATTGTTTGAAGCCTCAGTTTCCTCAACCTAAAAATAGGAATTATAACTTTTTGAATTG
TTCTGTTGTATGAGATAATGACAGTGAAATATTTTGGAGCCAAAAAGCAATGCATACTAT
TGGGGGTTATTATTATTTTTTGATCTTTCAGCAAGCCAGCTATAGTAGCTTTTCCTATAT
AAACACAGTATGAATTCAGTGCCCTCGCTTTACTGACCCTCACAGCATTCAAGCCCTGTA
TGGACCGCTGAGCTCTCCCTTGAAGCACCCCTTAGTCCAGTATTCTTTACTATTTTCCCC
TTTAACAATTTAAACTTCTTTCAAAACAACTGGCAGTAGTTTTTTAAAAAAGAAAACAGG
CTACTCTTCAAATTAAAAAAAATTGTCTTGCTTTAGGAAAAATGTTCTTCTGTCTTTTCC
AATTATCTTATTTCTTCTGC

Sequence 4218

CCCTTAGCGTGGTCGCGGCCGAGGTACGTTTATATGAAGGCAAACGTTTCCAGGAGCCAT
CTTCACATTTCTTCATAAACTGGTCAAAGAGCAGTCTTAGGTCCTTGTTCCAGCTGGGGT
TGGGGACAGAACAGTCCTTAAGAATGACTTCCTCAGAAGAAAATGACCTTTAGCAGCAAG
AATCCAAAGTATCTTTGGTGTCTGTTGTCTTCCCATGTTGTGCGTGCAGATGGAGGCACG
AGCATAACGTAAATCTCTTCCATTTATAAGAAAACTGAATGTCAGCGTGATGCTAGCTGC
TTTAATATTTCTTGCTGAATTTTTCTTGGATTTGTTGTCCGTAGGTCTCACTCTTGGAAA
GGATGTATTCTTGAATTGNTATCCATGGGGGCAAG

Sequence 4219

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TAAATTTTCTGATGCATATGAACTTTCAAAGTTAATTAAAATGCTATGAACTTATATTTT
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TGACAGTATGGTGNTTAGTTTAACCTACTAATTCAATCAGGCATTTTTTTGATTCCCCGG
GAAAAGGGGATACAACCAGAACATTTTTAAGAAGGNCANTTTTANCAGTTTTANTTCACC
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Sequence 4220

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTCCAAACACAGATCAGCCTTATC
TAGCGAACCATCACTCTGCTCTTGAATTTTCTTTTGGCCTCAAACTCTAGAGCTATAACA
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TTTCTATTTTTCAGACTCCTGAAACAGACTACTCTTTGCCTTTTTGCTGCAGTTGGAGAA
GAAGCTGAATTTGAAAAATGTNTGTTATGCAATGCTGGAGACATGGTGAAATAGGCCAAA
GATTTCTTCTTCGTTCAAGATGAATTCTGTTCACAGNNGGAGTATGGTGTTCGGCAAAAG
GACCTCCACCAAGACTGAAAGAAACTAATTTATTTCTGTTTCTGGGGAGTTTCCATTATT
TCTACTGCTTACACTTTAGANTGTTATTTTATGGGGACTAANGGATTAGGAGTGTGAACT
AAAAGGGAACATTTCCACTCTCAAGTNTTCTACTTTGCCTTTGACNGAAAATA

Sequence 4221

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATGTTAAATATTAAGAAAAAAAGACT
AAATAATGGACACCTATGTATCTGCAAATACGCATTCAGTTGTCTTTAATAATCCTTTGC

TABLE 1A
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TAATCTTGCTTCAGATGGATTAAGTGTGCGTGCCTGTGTGTGGTGTGTGTTTTACATTAC
AGATTAGAACTTAGGTCCTCTGGATTCACAACCCCGAATCCCATTTGTTTTTCTTCCTTT
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TGCTATAACATATGTAGTTATAAAATAGCATTGGTTTGTATGCTTTAAAACTTTATTTAA
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GATTTATCTGTGATGGTTCCATATAGGTCAAATTCTTTCATTTTNATTGCTTTTATAATA
TTTCATCATATGAAAAANAATCANGGATTTATTTATCTATTTCCCCTATTGCTAGAAATG
CATGTCATTTTAAAACCTTTTTA

Sequence 4222
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGTTTTGCAAAATTTAGATGGCTTTATA
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TTGAAGATCATTTCGAAACATTACCAGCCCAAACATTTTTACTGCTCCTCAGAATACATA
ACACCTGTTTTTTGATACTACTTTTGTAATCATGGTAATAACAGAGTATGGATATGTATC
ATTCTTGTGCAATTTACAATGTATTGGACTGATTTTCTTTCTGACTTTGGGCTTGGGGTA
ACATATAGCTTT

Sequence 4223
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTGTGTATGTTCCAGCAAAACAAGGGTTCC
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TTCACTGGAGAGAAAAAAAGAAAAAAATATCAACAGAGATATAACCTCCAGGAAAGATTT
GCCCTCAAGAACCTCAAATGTAGAGAGAAAAGCATCTCAGCAACAATGGGGTCGGGGCAA
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CTATACCTTTGGAAGAATATTGGGAAAAGGGAGCTTTGGAATAGTCATTGAAGCGACAGA
CAAGGAAACAGAAACCAAAGTGGGCAATTAAAAAAGTGAACAAAGAAAAG

Sequence 4224
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CCTACTGTTGCTGCCTTTAAAGCTGCTTCAGAATTCATCCTAGGGAAGAGTGAGCTGGGA
CAAGAAACCACCCCTTCTTTCAATGCAATGGTCGTGAACAACCTGACCCTTCAGATTGTC
CAGGGCCACATTGAATGGCAGACGGCAGATGTAATTGTTAATTCTGTAAACCCACATGAT
ATTACAGGTTGGACCTGTGGCAAAAGTCAATTCTACAACAAGCAGGAGTTGAAAATGAA

Sequence 4225
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TATCCAGGTTTTTCATAAATAAATGAGGAGTCTATAAATTCTTACTAGTTTTAATAGAAA
CATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCATTTCC
TTTATGTTTGAATGTTCCTTCCAGGTCTTTGAAAATATACATTCTGAGTTGAAAAGCTTT
ATAATAGGTAAAACTCATTAACCCATATACTTTCCATGCTGGGCACAGCAGGTGTGGTAG
GTAGAAATATAAGATGACTCCCAAGATTTTTGCACCCTGGCATACACATATGCTTTTCCA
GTTGTTGAAACACTAATTTAGGTGCTGCTGGGAAGGGATTTTGTAGATGTGAATAATGTT
CCAAATCAGTTGGCCTTAAGAAAGAAAGATGAACCTGGATGGGCCAGATCTTATCAGNTG
AGTCCCTTAA

Sequence 4226
CCCTTAGCGTGGTCGCGGCCGAGGTACCACCCTGAGCCATCAACCTTGCTCTCCAGTCCC
TTCTTAGTATCCCTTTCTGGCTCTTTTTACTACTCCTGACACACAGACATTTTCTAAGAT
TCTGCCCTTGGTCATCTTCTCTTCTGACTTTCCAATTCCCGTAGTTATGTTCTGATCACT
TGATTTTGATCTCCAAATCTTCTAGCACAATATTTTTTCTGAGATCTGAACTTTTATTTC
TAACCTCTTGTAGTTACTGNCACATATCTATTCTACTGCCACCTCAAATGTAAATTTCCA
AATGGCTATCTCTTACTCTGCCT

Sequence 4227
CCCTTAGCGTGGTCGCGGCCGAGGTACACAAACCAAGACAATATCAGGGTGACAGGTGAA
TGAACTTAAATTCTCAGTTCTTGTCTATTCACCAAAAAAGTATACCTGCCTGTTTTTTCT

TABLE 1A
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TTAATNTATTCAAAGGGTTNAATNGAACTTTTTTAANGGGAAACAATTGGTTTCTTATTA
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TNGTTTAAATTTTTCCCNANTTGGNTTAANAAAATTTCAAATTTTNGGCTTTTTAAAACC
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ATTTTTAANANTTGGTTAAATTTTTGGGCCAATGGTCCCCCTTAAACNTNTGGGNNAAAA
AAAAGGGGTNAGNTGGGGGGNGGNAAAGGNTTTTTGGGGGNTTTTAANAATTAANGNTCC
CAANGTAANTTAANCCTTTTTTNTTCCTTTTTNCNTAAAGAAAAAAAAGGCCCTTTTT
Sequence 4228
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GCCAGTTGTTAAATTGGTTTGGAAGNCAAAGTTTTACCTTANCCCTTAAGGGNCCCTTTT
TAACNTTTTTTTTTTCAAAGGGGAAGGGCCTTGGGGAATTTNCTTGGAATNCCTAATTNG
AAGGTTTTAATTTTTTTCCCCACCCCAAGGAAAANACCCCTTTTTTCNAANCCGANTTAG
GGGGGGAAGTTTTTTNGGGCCTTGGCCCANCAAGGTTCCAACNTTGGNTTTTNCCCAAAA
AAATTAACCAAGGAAAAACNTGNTTGGGGGGGGTTTT
Sequence 4229
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ACAGAAAACAGCCATGGGGCCTTGTCAAATCTTTAATTGAAAAGAATTCCTGGAGTTCTT
TGGAGGACTATTTCAAACAGCTTGAATCACATTTGTTNAATGAAGAATCTGTATTAAATC
AGGCCGTTGAATGACCCTGNAAAACTTACTGGCCTACGAANGAGAANGCCGAACCCTTCA
NCCCGNACAGNAGAAACAGTTNCTAAACTTTTCCTTTCAGCATTCCTCTGGAGATGTGGG
CTTAGGTGCCAAAGGGGATNTTACAAGGAAAAGA
Sequence 4230
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GGTTATATCTGCTCGGTTATATAGAGTTTTTTCTGTCTTTATTATCTCTTAAGTGCATTG
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Sequence 4231
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AATTGTTCANCAATGCACANAATTTGAAAATACACTTGAAAAATAGAACTTTGATATAAA
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TACTGAATACAAAATTTA
Sequence 4232
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GCTTCTGTTATTGATAAGTAGAAAGATGAATGGAAAACAAAAATACGTATAATCAATAGG
CAACAGCTAGTTTTTTGAAAAGACCAATATGATACAGAAAACTCAGGAAAAAGGAGTAAT
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GAGTTCGAGACTAGCCTGGGCAACATGGTGAAGATCCTGTCCCTAATACAAAATAAAA
Sequence 4233
ATNTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGACCACATTGTATT

TABLE 1A
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GCATGTGAGCAGATGAGTTTTCTCCTTGAGCTGGATGTCTCTTTGAAAACTATCAGTCAC
CTAGAAAATATATTTGTCCTCATATGGGAAACTAGGTCTAGGAAAGCAGGGTGTAGGGAG
AGGTCTTAGATTCTTGGGTTAACAATTTAACAAAGGAGATTTGGCTATCACAGTCATCTA
GTGAAAGTAGAATAGGACAGAAAAGACCTTGTAACTTGGG
Sequence 4234
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CCAANGCCCAAAAATT
Sequence 4235
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GATTTCGTGGCTCAATTAAAAACTGTGGGGTTACCATACATAGTATCTGACTGCTTATTT
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ACTT
Sequence 4236
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AGTNGTTACTTTAAAAATT
Sequence 4237
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TTTTGGTTTTATTTCAGGCTAATGATGGCTACTTAGAATGAGTTGGGAAGTATTCTCTTT
TCTGTTTTCTGGAACTGTTTGTGTAGACTTATTCCTTACATGTTTGGTTGAAGTTCACTA

TABLE 1A
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GGACTGGNTTTNACATCTTCCTCTTNTCGNTNCCTGANACTGGATAANTTNGGGGGCTTT
TTTTTTTCCTTTTTTCTTGACNANCNTGGCCTAGGANNTTANTAATGGNNGNNGACCTTT
GCAAAAAAAAAAAAAAAA
Sequence 4238
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ACCCTATGAGCTATGCTTATTATCCTCATTTTACAAATTAGGACCCTGAAGCTGTGGAAG
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AAATTGTATTTTATTTCTATAAGTGATGTTTTGAAAGATATAAAAAAATTTTATGCCTAT
CATGAATAACCATTAAATGGTGCAATAAACATAACATTGTATACAGTAATTGTTTAAATG
AAAGAACTTCT
Sequence 4239
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Sequence 4240
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CCTGCCTTTGTTAAAACATAGATGCATTTTTTTTTCTTTGGGGATGTTCAGAGCCTTCCA
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Sequence 4241
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A
Sequence 4242
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TABLE 1A
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AATCTTGCTTCAGATGGATTAAGTGTGCGTGCCTGTGTGTGGTGTGTGTTTTACATTACA
GATTANAACTTAGGTCCTCTGGATTCACAACCCCGAATCCCATTTGTTTTTCTTCCTTTC
CAAAGTTGTCATTATCGTGAATTTGGTGTTTAGCTATCCCATGCATATTTTTACACTACT
GCTATAACATATGTAGTTATAAAATAGCATTGTTTTGTATGCTTTAAAACTTTATTTAAA
TGGGACCAACTGTTTATATTATCCTGATCTTCTTTCCCTTATCAACAGTATGCTTTTGTG
ATTTATCTGTGATGTTCCATATAGGTCAAATTCTTTCATTTTTATTGCTTTATAATATTT
CATCATATGAAAATATCATGATTTATTTATCTATTTCCCTATTGCTAGAAAATGCATGGT
CATTTTAAACCTTTTTTACTATTAT

Sequence 4243
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TGCCAAAATTATATGTAAGTATTTTATTGTTGGTGAGGATATAAGAAATTTACCATCAAA
AGAGAGACGATAATCTATGCTTGCAGACTCCGGAAAGCTGCCTCTCACATAAGAATTTGC
AATTTCTGGGGGAAAAGAAAAAGTTGATTGTGCAAATAAACATTACCATGGAGTCTTCTC
TATGGCAACATCAAAAATGA

Sequence 4244
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAGCTTTTATTCATTTTATTATTCATCTTT
ATTGCTTTCATTGCACATGCTGTTAACTTCTTATGAACTCTTTGTTCTAATAAATAAGCA
TATCCAGGTTTTTCATAAATAAATGAGGAGTCTATAAATTCTTACTAGTTTTAATAGAAA
CATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCATTTCC
TTTATGTTTGAATGTTCCTTCCAGGTCTTTGAAAATATACATTCT

Sequence 4245
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATTGTGCATTTTCCTCAGAAAATTACTG
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TTGCCACCTCTACAAACCTTTTTTACCTTCCCTATGAAGGGGAAATATCACCAACTAATA
CTAATGTTTGGAAACAGAACTTGCCTAGAGATGAAATTAAACTAATTGAAAACATCTGCT
GGACTCTGATGGATCGCCTAGGATATCCAAAGTTTATGGACTAAATGCTGCAGGTCAGCA
GAAATTTGCACTAATAATACTTACCAACCCACTTTGTGGATATGAATCAGAAGAGTTTGT
TTATTCTTTAGTGTGTGTGTGTGTGTGTGCACGCGTGTATGTGTTCAAGTGTTGTTTGCA
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GGTAGAATGAAAGTTATATCATGGGGGGCAGGGGGAGAAGGGAAAAATT

Sequence 4246
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GTCTTTGGCATATAATCCTTACCAAGATAAGTGGAAAGATTCAAAACCTCACTAATCTAT
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TGCACTAAGCTTCTACCATAATTTATACACAATGGACTTTACCTAANGGTAATAT

Sequence 4247
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CATGAGAGTGTGTGCCTGTGTGTGTGTATAATTCCAATATTAATAAAAATGTTATCTTCT
TTGAAACCATCAGTGCTGACTCTATCCAGCCTCTCTCCACACAGTATAAAATGTGGAAAA
TGTAAGTATTATGGTATGGAATTGACTCTTGCTCATATGTTGCACACCTAGGTGCTATTT
CTATTATGGAGAACTAGAATTATATAATTTAAGTTTAATTGTGCCCCCTTTTCCCCAAAG
TTCATGTGTATTTATGCCATCTGTTTGGCCTTGTTTATTTTGGTATCACAGATAAAATAG

TABLE 1A

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AAGTTAAAAATCTGAATTAACCGTGCTGATATGTTTCATGGNGATAAAATATAATTGCTT
ATATACATATGCAGGTATTTAAGTCTATAGCCTGNGTGGGTGTGTGTGGGNGAAAACCTA
TGACCCTGTGCACATTGGTCTGGGGGTATTTTTTGGAATATGGAANTGGAGTTGGGACAN
ANATNCNGCTCACAGCTTATGAATTACTTANCCCNTNCNTGTNTTGGTCTTAAAACATTA
AAA

Sequence 4248

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TAGGCTGACTTAGTCTCCCAGCCTACATCTTTCTCCCATGCTGGACGCTGCCTGCCCTCA
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AGTTTTGGGACTCAGACTGGCTTCCTGGCTCTTCAGCTTGCAGATGGCCTATTGTGGGAC
TTCACCTTGTGATCATGTGAAGTCAATACTCCTAAATAAACTCCCCTTCATGTATACATC
TATCCTATTAAGTTCTGGCCCCCTAGAAAAACNCCGACTAATNCAAAAAGGATTGNATTA
AAGTTTTACCGGTGGTATTTTTTNCNANAAGGTTTANAAAATAGCNCCCATAATTTGNCT
TTANCCGCAAGTTCCAAGT

Sequence 4249

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GATTGTGAATCATCTCAAGGTTCAACAGGTGGGAATGGTTAAGAATAGTATAGATGCAAG
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GCTTACAAAAAATAAAAGTAACATGCTCAGCATGCTACCTAGAATTTAGTAAGCATTCAG
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GAAGGCAGGCAGGTAAGAAGAANGAATGCAGGAAGAAAGGGAAAGAAGGGAGAAAGGGAA
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A

Sequence 4250

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Sequence 4251

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TTAATCCTGAGTGTGTCTGTGAGGGTGTTGCCAAAGGAGATAAACATTTGAGTCAGTGTG
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Sequence 4252

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TABLE 1A
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AAAAA

Sequence 4253
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ATTAACCTAAAACAAGATGTTACTATTATATCGATAGACTATGAATGCTATTTCTAGAAA
AAGTCTAGTGCCAAATTTGTCTTATTAAATAAAAACCAATGTAGGAGCAGCTTTTCTTCT
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Sequence 4254
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AGTCTTAATTGTAATATTGAGCCCACATGGAACTGTCCCTAATATAGAATCTACATTCCT
ATATTGCATATTGCATGTGGTTTGAATCTATTGTAAGTTTCAATATGGTCACAAAAAACT
CATTAACACCCTAATAATGAGAAATCAGGCATTGCAATGGACTGTTTGTGTCTCTCACAA
ATTTATATGTTGAAGCCTTAATTCTCAAGGTGATAGTATTAGGAAGTGGGGTCTTTGGGA
GCTAGTTATATCATGAGGATGGAGCCCTCACAATTAGGATTAGCACCTTTATAAGAAGAG
AAGTTTGTTCCCCTCTCTCTGCTCTCCATCATGTGAGGATATGAGAAGCAGACCATTTGC
AAAAGANGAAGCTGATCCTCACCACCCCATTGAGTTTGCCGGCCCTTGGTCTCGGATTTA
CCAGTTTTCAGACTAAGAGAAATAAA

Sequence 4255
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTAATATTTTTTTCAAGTTTTGGTAAAGT
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Sequence 4256
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCTCTGTTCATTTCCCTATTTATTTATATCA
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ACCCTGGGATACCTTCAGAGAAAACAGAAAAGACACTGCAGACTTTTT

Sequence 4257
CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTTCTGCCCTTGATATTCTAATAAAAAACTA
TAGNGACAGCTTGACAGCTGCCATGATTGATGCAGTTCTAGATGAGCTCCCACCTCTTAT
CAGCCGAAAANGGTGNATATNGCCANTTGNTTTTCCAACAAAAATGGGCCCAATCCNAGT
TTTTTTNTTTTAACCCAACTTTTTTGGGCCAAANAAAGGTTAATTATTCCCCCTTTCCCT
TCCCNCTTTTTTCCAAAAAAGGAATTAAAAGNNTGGGGAATNCCCAATTTTTCCTTTCAA
AATTGGGAAAACCTTTTAANTTTTGGGGAACCTTTTGGGTTGGGAAGGAAATTNCAANCC
CCCCCTTTTAATTTTNGGCCAAGGGGGGGGGGGGGGGAAGGNCCCTTCCTTTTAAGNTTN
GGGCCCCAANTTGGCCCTTAAGGGAAACCTTTTTTTTTTTTCCCCAAAAGGCCTTTCCTT
GGGGGTTTTTTGGTTTCNAACCCNTTGGGGGAAAACCCAAANAATTTAAAATTTTTTTAA
NGGGGAAATTAACCAATTTGGGGGAANTTTTT

Sequence 4258
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTCATTGGTGGCGGAGGCAATGGCCG

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GCAACCAGCTGTAAGCGGGGCACGGAAGACATATGCTTGTGAGACAAAGGTGTCTCTGAA
ACTATGGATGGGNACACATTNACATNGGTATTTGNAATAAAAGAATTGGAAAATTGGGAT
AAAGTTTTTTCATGGCCAAATCTNATTGCACAANATACNACNCATTCTTTTAGNAGTATA
ATGGTCAGTTTATCATTTCGTTAACAGCTGTGTTTAGACAGNTGGCTCTTGCTTTG

Sequence 4259

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTTAAGNAAAGACGGAGTTTCACCATGTTGGCCAGCTGGTCTTGAACTCCTGACCTT
AAGTGATCTGCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCATAC
CTAGCTGACCTTTTGTTTAAAAGCATTTGTTTCTAAGATCATAATTCAATTGACAGGAAA
ATACCAGGTAATGATTGCCTCTAAGAAAATCAAGTCCCTAAACTTGTCCCATCTCTAGCT
CACTGAGGGCATAATCCCCAGTGTAGACCCAATATGAGATCACTGACCTTCCCTTCATTT
TACTCTTGAAAAGAAAGACAGAAGTTATGAAGAAATAGTCATTCCCTGAGGGACACGCAG
AGGAATAACTAGCCCAAAACTCTTTANGGGAATTCTATGTGGAAAGTGTTTACTTGGATT
AATAAGCGCCTTTGGTAAAAAGGCAATTATNTGAAAGTAATGGAAATATATTGGGGCTGN
CAGTCATTCACACTTTAATATGAATTANATCAAATCATAATGTTTTCCTCTAACCAACTA
NAATGAGCTCAGTGTCTCTTCAGGAAATGAAGACTATCGATGGCAAAAAANGGGAGCCAN
AGGGCATTTACGTANCAAAAGGTTTCANGNGGGGACAANGCCAGGAAGAANGTTTTTGGN
AAA

Sequence 4260

CCCTTAGCGTGGTCGCGGCCGAGGTACATCACCCTGCTGAGGGACATCCAGGACAAGGTC
ACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAAC
TTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCC
AGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGC
TCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCA
ACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACCATAT
TCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGAG
GATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTTTTCTGACTGTCAA
GTTTCAACATTCAGGTCTGTCCCCAACAGGCACCACACCGGGGTGGACTCCCTGTGTAAC
TTCTCGCCACTGGCTTCGGAAAGTANACAGAGTTGCCATCTATGAGGAATTTCTGCGGAT
GACCCGGAATGGTA

Sequence 4261

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGAATAGTCAATTATGTGTTCTTCTCATGCTC
AGTAAATCAGAACTTTACATAAGTTCAGGTGAACATAGAGTAGCTACCTGGGGAGATATT
TCACCTTTTTATCTGTAGTGCTCTGCTTAAGAACAAAGGAAAAAACAGCTTCTTGCATGA
TTCAGCTTTTAGCTTAATTTTTTTCCTTTAGGCATAGTGAATTGGGGTCCCAGGTTTTTA
TTTTTCTTTCACAAATTAAAACTGATATTTAGACTATTTCTCGGTCCACTAAATTTCTCT
CATCCTAAACTCCTGCTAACCACATGTAGTCTCTCTGTTCATTTCCCTATTTATATCAGC
ATTTCCTTCTTGTTGCCAACTTCAGTGCCACATAAGGGAAAAACAACAGAAATCTAACAC
CCTGGGATACCTTCAGAGAAAACAGAAAAGACACTGCAGACTTCTTTTTGGGAGAAACTC
CTGTGTTTATTTTTGTTTGTTTGNTTGGACGGTTGGGTTTTTTTGNGGGTTTTTTTTGGG
GTTTTTT

Sequence 4262

CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGTTGTGACAAAGACTGTATATCCCACAA
AGCTTAAAATATTTACAATTTGGCCTTTTAGAGAAAAAGTTTTATGACCCTTGCAATATA
AACACAGAAATCTCAGAGATGCTGTCTTCTTCCTAAACTTTAATATTTAATTCTGATTGT
GGATGAGATTAGATTCTCCAACTTTCCATGTTTAAGACTCATTCAAAAAATTCATAAATC
TCAAAATATTAGAAATGCAGGATATTGCCTGATGACTTGTCAATTACATGATAAATTATC
TTAACTATAGAATTAATATGCTGGATTAAGAAATGACCCTTGTTTATGCCTAAGCTTCTA
GGGCAAGAAAAAAATGATCAGAAGGAGGAAGGTAGTTCCCCTCCACCTCAAGAGAAACCC
TATTGTCATCTACATGTCTCTGGAAAACATTTTTTGAACAAATATGCCANCTAACCAAAA
GGATGAACATAAGAAAAGACCCAGA

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Sequence 4263

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGTAGAGAT
GAGTTCTTGCTATGTTGCCCAGAATGGTCTTCAACTCCTGGCCTCAAGCGATCTTCCTAC
CTCAGCCTCCTGAAGTGCTGGGATTATAGGCATGAGCTACCAAGCCTAGCCTATATGGTG
TATTTCATCAAACCTAAGACACTGTTGATCCTAAGATGCACCCAGGTTTTAGAGATGTTA
AAATGCACCTCCACCTCCACAAAAAAGTATGCTTTTTAGAAATGAAAATAACCACTACCT
ACTCAGAATCTTTAGATAAAAAATGTTGTCAGGCCACAAGCAGAGGGGCTTCCCTGCCTC
TGACCTTCTTCACACGGGGGTTTGTTGAAGGTGCTGGTGAGACCCGCTTACAGAGCCATC
CTTTTGGGAGGCTACCCACACCCCAGATTTCTAGTCAAGGGGGAACCANAGACCATNCCC
TTGAGGCAAAACTAAAATGAACCGCTGGTTAACTCTGGCAGTCACAGCATTTACAGGGCT
NTGAAAGNGGCAGAAAAGCTAGTGATGGGTGGAAA

Sequence 4264

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGACCTGCTGTGCTCTTGCTTGCACAGTG
TCCTGGAGCTGGGCCTGGCTCTGGGTTTCAGGAAGCAGTTTGACTAAAGGCAGCAAGCTG
CTTCCTCTGCTGCCTGAGATACCAGAACCATACAGAAAGACATGCAAAGCACACCAAATT
GTCTACAGCTTAAGATCAACAAAAATCCTTTTTCATTAATTATAAATTCACAGAGAATAT
AAACAATGATCCTTATTATCCCCTTTACTGGCTCACACAGGGAGAGAGAAGCCAAAAGCC
CAACTGATTCCCAATGGTGAAGATTGAGAAAAACGCTCCCACGATGGAAAAAAAAGCCAG
AACTGGTTAACATCATGGAAAGTAGATGGAAGTCCCTACCTTGGATATTATCAAAAAGAA
TGGNG

Sequence 4265

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTCTGTGGCCTTGAG
TATTTTTTAAAAGGCTCAACTGTAAGCCTCTTAGCCAGTTGGATAAATATTTGGGGTCAC
CTACCATTGAAAGCAGAAAGCAGTAGTGACACAGCTTTCCCTTCAAAGAGCCATTGAGAA
ACATTTCTCAAACAGGAAATCCTTCTTTTACTAATGTGGACATATAGATTATTCGTATTA
TAGTTTGTAGAACTACCTAGTTCAGAATCTTGACTGCCAGTTTTCTTGGTTTCTTAGGCT
TGAATTTTCATAGACAATTGCAACAGTTTAGATGCCTTTTGAAAGGAATGCAATGAAGAT
TCAGCATCTGACTATATGTGTGTCTATCCTGAAATAATAATGGAGAGTATACTGTAGATT
ACATGTTTACCCATCAAATCTGACTTAAAAGGGTAAATGGAAGGTTTTATAGGTAANGTA
ATTGAT

Sequence 4266

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGACCTGAAGTAAGTCAGTATTCTTTG
GAACTGGAGGTGCTGTATGATGGATCACTTGAGTGATTTCCTCAGTCTTTTTCACATAAT
CATAAATATTATCTGGTAAACTTGGTTCCTTGAGATTTTGTCAGATGTAGTGAGTTCACC
TGGCACTTATTTGGCACCATAAACCACGCTGGACTAGAGACTGAGATATCCTTACATAGT
GGTCCATGGACATGGCCCCTTCCTGGCACTGCCAGGCATTTGGAAACTATTACTTTCCTT
GAGTATATTTGCCTCCTCAGCTGGGGTTTCTCGTCTGAAATCACAGAACATAGAAAATGA
TTTGAGGGACTCTTCTGGAGGGCACCTGACTTTTCTCTATACATATTTCTTGAATGATAC
TAGGTAATTTATTACATACAAGAGATGCCTAAGGAATTAGGGGGTTAATTCTTTCCATGA
AACCTTGGTTTAGAAGGCCCAGTGTCCATACTATGTCCAGCCAAATAGATGCACAAAATT
CCAATCCCAGTAAAAGACCTTTTAGTTATACAGTTTTTTTAAAAACTATAGTTTAAGTTA
TAGGTTTTTTAAAACTATGTAGAAAAATGATTCATTTATNGGCTGGCNAATTGCCCCAGA
CTTTGTCTTTTTCA

Sequence 4267

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCATGAGTGTCAACTGCAAAATCTATGCA
TTATGTAGTGATTTGAATCAATTAGTCTTTCTTGATACTCCAAAATTCCCTTTTTCGAGT
GTCTTTATCAGAAATTTGATAAATCGGAACTTTCCTGTCTATTCATAAACAAGAGTGGTG
ACTTAGAAAGACACGCACTCCAGAGTGGGGCTTCTGCGTCTCCCTTGTCGTGCCCCTTTG
TGAGTAATGCTTTCCCCAGAGAACTGCAGAAAATGATCCTGCTGAGCTACAGGGTTTCCC
ATTCATTGGGTTCCATTCCAGTCCTTGCAAGTTCAACAGCATCTCAGAACATTCTAGTAA
GCTTGCTAAACGGCGTGTGAAAGGTTGATCTTCTCATCTAAAGCTTTTAAATTTTTAAAA

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TCGACCATGTGCAGTGGGCTCACACATGTAAATCCCAGCACTTTTGGGAGGCTGAGGTGG
GTGGATCACCTGAGGTCAGGAGTTCAAGATCAGCCTGGTCACATGGTGAAACCCTGGCTC
TACTAAAAATTCAAAAAAATTTACCTGGGTGTGGNGGTGTGCACCTATAATCCCAACTGC
TTGGGAGGCTGAGGTAGGGAGAATCTTTTGAACCTAGGTGGGTGGAANGTTNNCAATTGA
GCCCCNAAATGGNACCACTTTTACCTNCAGCCCTGGATTGACANAGNGGNGATTNCCTCT
TAAAAAAAATAAATAAA

Sequence 4268

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATGTGCCCCCTCCTGGCTGCTGCTTCCTGA
CGCAGCTGGTCAAATGTAATTTCAGAAGTTTTGCTAAAACCTTCTCTGAAGGTGTTTTTA
GCTACAGGTGAAAGGATGAAACATCAGGAACTTTGGCAGGGTTGTGCAGAGACAAAGGAA
GGGAAGGATTGGCCCTAGTGTGTGAGCTGTGAGCTGCTATTAGCCCAGAGTTTTGTTTAG
TGGATACTTAACCTGTGTGAGGATAAATAATGCACAGTTTGACAGGATAAACTGAAGTCA
ACATGGTAGCTTCTTCTTTTAGGGTTCTCCTTTAAAAATTTTCTTCTATTCCCCATTTTC
TTTAACCACTCTGCGTTCATTTTCCCGTTTTTCCCCATCTCCCTCTTTTTCCTCTGTTCC
TGTCCTTTTGTGTTTTTGGACCCCAACCCATGTTGCCCTCTTTTTTATTTGGTTTATTTC
TTCTTTCTACATTAATTCTCTTTTTTCCTTTCTTTAATTTAAGTCCTTTCTTTCT

Sequence 4269

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC
TTGCGCTCTGCACGGTCCAGGAGCTGTGATGTGGCTGTGGTCTAGGGGAATCCTGCCTGC
CCCATGGAGTTGCGCAGCACAACCCCGGCTCCAATTGCCAGAAGGCTCTTTTTAATGCTG
AACCAAAATGTGCCTTTTTTTTTTTGAGATGGAGTTTCACTCTTGTTGCCCAGGCTGGAG
TGCAATGGCGCGATCTCAGCTCACTGCAGCCACTGCCTCCCAGGTTCAAGTGATTCTCCT
GCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGCGCTAACACACCCAGCTAATTTTG
TATTTTTAGTAGAGACGAGGTTTCTCCATGTTCGACAGGCTGGTCTCGAACTCCCACCTC
AGCCTCCCAAACTGCTGGGATTACAGGTGTGAGCCACCCGTGACCAGCCAATGTGCCTTC
TTATAGTGTCTACTCATTGGTCTTTGTTCTGCCCAGTGATAACAATGGGATAACGCCTGC
TACACATCTTCATTGTGAAACCCTTNCCCTGTGCTGAGATTAAATGAACTCTAAGATTAT
TAAATAGTATATTTTCCTTTGACAGCCTANCCGTTGATGAATTTTNAAAGCCTTATGTNT
TAAATAAAACCAAAGGAAGGTAAGCNNGTCATATTGCTTAAATTTGCTAACTCCTATTTA
TTGGAATGGNGAAATTTTTAAAAANTTT

Sequence 4270

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTATTTTTTTTTTTTTTTTTTTAACAG
AAGGNAACAGCCACAGTTAGGCACTTTGGGGTAACATGTGCAACTGAACAAAATACTTCC
AATTTTGAAAAATNTGGATTCTGTNTNTTGCCAGGGCANAAAACTTTACTGCTCCTGAAC
TCCCGTAACAGTTTGCATGGACATNATGGCACTCATCANATCCTACTCTGGCTTTTTGNN
ACTGGGGCACATAAAGTCTCCTCCTACCCAAAGTTTAANCACAGAANCCCCGTGCATGGA
GGC

Sequence 4271

CCCTTAGCGTGGTCGCGGCCCGAGGTACTCAGTTTATTGAATTGATGAATTGATTTTTTT
TTAGTAATCACATAAATTTCTGTAAGATTTGTTATCATTGTTTACTGTCACAGAATCATG
TTTTATATCTTCAAGCTCAAAGCAAGCTTTCAAACTTGAATTTAGTTCTTGCATAAATAT
GGATGATTGTTTCTCCATTGCTGAAGCAGTGTATTATTTCCATAATGATCTGTAAAGTAG
GTGGGTTTCATGACCTAAGTGTTATTGNTGATCTTTATATATACAAGGAAAACGCAGAGT
CATCGTTCATTTGTAGCTGCATTTATCTCTGGTTTTCAAAGCATTTCTATAAAATAACAA
TTAAGCTTAAGTGTGATGGTTAATACTGAGTGTCAACTTGATTGG

Sequence 4272

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGACCTGACAGGGACGGAGGCCAACGCCGGGA
TCGGAGGGCAATGAGGCTTGCCAGGAACAGTGGCGTCGGCTTCAATCCAGAGCCGAAGAG
TTCTGATTTGATCTGATGTGATAGGCAAATGGGAAACTGCTTTGTAAACAGGGCCATGAT
GTGAGGAAATGGTATTCTCAGAAAGACTGACCTGGCCACAGTGGTGTGCAAGACAGGCTG
CAAGGGAGAGAAAGAATAGTCTGGAAGGCTGGCTGGGGAGGCCAACCCAAGCTAGGTTGC

TABLE 1A
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CAAGGAGTAATGAGGGTGGCCTGGATGTTAATGCANAGGGAGGGAGAGGAGCGGAAGGTG
GCCCANGGGATGAGTCTAAGAAAACCCCCGGCTGGCAGTGCTGAGGGAGGCAGAAGCCCG
CGCTGGTCAGGTGGCAGGTGTGGGGGCCAATGTACCT

Sequence 4273
CCCTTTCGAGCGGCCGCCGGGCAGGTACTCACAAAATTTTTTTAAGTAAAAATTAGGGTA
GTGGGAAAAAAAAAAAATTCTTCCCGTTGGCTTCATGGGGTAAGATCCTTCTCATTATTC
AGGTCTCAGCTTAAATATCACTTCCTCAAAGGAATCTTCCTGGTCACTTTATCTAATGTG
CTTATAGCCTCAGATGGCAATAACTTTCCACTTTCTTCCCCTAATTTTCTTTATAGCACT
TACCAGTTGTGAAATGCTCTTGCCTATTTAGAATTTAAGCTCTACAGTAGCAAAGATGTA
TGTTNGCCACCATATTTCTGGAGACTGAAATGGGTTA

Sequence 4274
CCCTTAGCGTGGTCGCGGCCGAGGTGCTATCAGAACAAATACATAAAATAACTTCCCATA
GAGAACAGGATATAGCAATAATAGCTCCTTAGATACTCAGTGGTTCTGACTCCAATCAAG
GTCTTGTTGATATTATATAGTAAAAATAAAACCAAAAATAAATATTATTCAAGTGGCTCT
TCTAAGCATGTGAATCATGAAGCACTGAAATATGTATTTTAATGATGATCTTATTTATTC
CCATTTTTGCCCTTAGTTAACATTTACTGGTGCTCACCTAGGATTGGCTATTCTGAGGGA
TTGCATAGAAACCAAGCTCCACTTGCTGTCCTTGGGGAGGTTATAACTGAATGCAGCTCT
TTATTTGGACTAAAGTGTCAGGATATGCATTAGATTCTCTCCTGAACCAAAAACACAACA
GTCATTATCTGTGAACCATAATTTAAAAATCTTTCTAGAATAACAACAGCAGACTCCACT
CTTGTTTGTCTAAAAGAGCCCTACTGGGTATGGATCATTCTGATGACAGATTTATACAAA
ATGATTCAAACCAGTAACTTANTAAAATTG

Sequence 4275
CCCTTAGCGTGGTCGCGGCCGAGGTACTAGGACCACAGGCATAAGCCAGCACAACCGGCC
TAAAATTTTCTAGAAAAGTAGATCTTATGTTACTTCTTACCACAAATAGTAACAGTGGGG
GNNGGAAGAAAANCTTTNGGGGAGGGNGAAAAAGANATGGTNTATGGGCNCTTGATGNGT
GGTGGATGGTTTCACAGGTGTATACTTAACACCAAATTTCATCAAAT

Sequence 4276
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATCTCTCTGTTGCTAAACAGAGAATAATA
TAATTAATAAATGGTAAAAGGAATTTTTTTAATTTTACTTTTTTCTATTATGAATTTCCA
CTTCTAATGATAGTGCATTGTCAAGTCAGGAGGATAAGGGTATCTTTGAGTCACGAAACT
CAACATCAATTAAAAAGAATTTATTTCTTAATCTTCTCTGAAGTCAGGAGGTTCTATTTA
GTGAAGTTCATGTCCTATCACATTTCAAAGAAATAAGTCTTACATGTGGAAAATATTCAA
GCATATATGTATATATTCAGCTTTGAACTCCCAAAGAGCTGGCTGGAAATTATATTAATA
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AAATGCGCAGTCCTACCTGCCCTAGCTTTGCTTGATGTGGGTGCAAATAAAGTCTAGTTT
CAAACTAACATATCACCATAGGAAATTGGCTTGNGGGTCTACTGATTGCTCAGAAAAAAA
AAATTCTCTGAAACTTGCTTGATTAAAAATTCTGTCTCTGGAAATGGACTCCTGCATTAA
CTGGATTCACTTTAGGGATNGGTGGAAAGGAGAAGTCTTCANATATTTATTAGAATCCCT
TTTGCCAAAATACCCCGAATGGTTTTGGTTTCTAGAANAATNCAGCCTCAAACCTTTTAA
ACACCCGGGGTCAGGCAAAAAAAAAAAAAAAAAAAGTC

Sequence 4277
CCCTTAGCGTGGTCGCGGCCGAGGTACTGTCTCCGGCTGGGGCACTACCACGAGCCCAGA
TGTGACCTTTCCCTCTGACCTCATGTGCGTGGATGTCAAGCTCATCTCCCCCCAGGACTG
CACGAAGGTTTACAAGGACTTACTGGAAAATTCCATGCTGTGCGCTGGCATCCCCGACTC
CAAGAAAAACGCCTGCGATGGTGACTCAGGGGGACCGTTGGTGTGCAGAGGTACACTTGG
AAGAGGGCCAAGTGGGCAACTTGAGAGGTTAAACTGCATGGTTTGAGTTTTGATTTGAGG
TTTTACGTGTTGGCATGCATTCAGGGGCTTGTGTCCCTTCTCCCCTGATTCTTCCCTCCG
GGTAGGAGGGAAGAATCCACCTGAGCAGTGGCCTGCCAGCACTTGAGAGGCTCCGCAAGC
ACAAGTGTGTTTATGGGAAGTTGTGCACATGCTCAGTTGAGGCATTCTTCCCTTACCAGT
CGAGTGTTTCTAGAGGAAGGTCATAGACTAATAGTCTAATAAGTCTATGACCTTTANTCA
TACTAGTGCACATGCCTGAGCCCACTCCCTGTGAACCCCCAAAATTTGAGACAGGTCTTA

TABLE 1A
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AATTAATTTAA
Sequence 4278
CCCTTTGGTCGCGGCCGAGGTACAATGTTTAATAAAAGTGATGAGAGTAGATATCTTTAC
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CTCTTCATTTTATCCCTGGTTTTGTGAGGGCTTTTAATCATGACTCAATGTTGGGTTTTA
CTAAGTGCTTTTTCTATTAAGATGATCATATGCATTTTTCTTTTTAGTCCACTAATATGG
TAAAGTTCATTTATTGATTTTTGAATGTTAAATCAACTTTATCTTCCTGCAATAAAGTAC
AACTTTAATGCTATATGAATTTTGCCATTTTGCTAACACTGGTATGCTCCGGGCATCCAC
CATCCCACTGGAATTATTTATTCCGTTCATATTAATTTTTGTTACAAAATCTAACTGACG
GAGGAGCTTCTGGGTATTTAGGTCCCATTCTACTTTCAGGCTATATATTCTGTTTTCAAT
AATTNGTCCTTGGGTGGCCCAATAATCGTGCCTGTCCACCTTNGAAGGTGTCATAATCTT
CAATCATCTTTCAAGGCCCCAGCTAACTGGNCCTGATTGNAATCTTTTCAAAATATCTTG
TTGAAAATAAATTTCCTNCTTTTAAAAATTACCAGGAAAAAA
Sequence 4279
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGTGTCAACAGTGAACCTTATTAGATTCAGG
GTGTCATCGAACTTATAGCANGNTTAAANTCAATCAGTAGGAATGTCATTTTAAAAAGTA
AAATAGTGGGACGGTTGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGACTGAGG
TGGGTGGATCATTTGAGGTCAGGATTTCGAAACCCGCCTGGCCAACATGGTGAAACCTCA
CCTCAACTAAAAATACAAAAATCAGCCAGGCATGCTGGAGGGCACCTTGTAGTCCCAGCT
ATTTGGGAGGCTGAGGTAGGAGAATCGCTTGATCCCAGGGGGCGGAGGTTGCACTGAGCT
GAGATCACACCACTGCACTCCAGCCTGGGCAACACAGCAAGACGCTATCTCAAACAAAAA
AAGGAAGTCAAATAGAGCTTTAAACCTGAATCATTTACATCTTTACTTTATAAAATGTAA
AACTACTTTTTTACCCAAGACTTAAAATATAGAATTATGTAACTTCTACTTTAAACAAAA
TGAAAAATGTTTTGAGTTTCAAACCAGTATATTATCTACCTTGGTAGACAGCATTTTTAT
TTAACACTGCCACTGGGTTAGTA
Sequence 4280
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTTTTTTATGAAGGGGCTTTCTCGTGT
GGATAGCTGTTCAATTTGGCATTCCTGTTGGGGGGTGGACAGTGATTGCTGGAGGGTTTT
ATTTGGTCGTCTTGCTCCACCTCATTTCCTGACATAGAATTTTTGGTTGGAGATACTTTT
CAACTGGAATTTTGAATGGGCTACTTCATTGATTGTTTATGTTCATTGCAGCTGTTAAGA
TATCTGATGCCTGTTTATCTTAATTTGGGTTTCACCAAAAGCTATGCTTAGTANATGACG
AGCTGAGAAAAGGACTTGGGTGCAAGTAATTCATTTGGGAATTGACCTCGGAAATTAGGG
GCAGGTAAGACATAAGGATGAGAAAAGTCAATAAGGAAGGATATTATTGAAAAAGTTACT
CCTGTGGGCAACTGCACTCAGTCCTGCTGGGACCCTTTCAGACCNATGAAACACACCTTA
AAATTGTTCNCATGCANGATCAAGGGAAACTGGGATGTCTGTCTNCCAATTACTGCCCTT
TTGTTGCTTGAGGGT
Sequence 4281
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAGTCTACACAGGTAGAATGGCCTTA
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CTTCATAGACTGAAACAAATAATACAGCTTTCCTTTTAGTCCTTGTTCAGCCACACAACA
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TGCAGTCGCTTTCAATCTGAAATCAAA
Sequence 4282
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAATATTAGCATGTGGCAATGATGATTGCAG
AATTCACATATTTGCTCAACAAAATGATCAGTTTCAGAAAGTCTTTCTCTCTGTGGACAT
GAGGATTGGATTAGAGGAATGGAATGGGCAGCCTTTGGTAGAGATCTTTTCCTAGCAAGC
TGTTCACAAGATTGCCTGATAAGAATATGGAAGCTGTATATAAAGTCAACATCTTTAGAA
ACTCAGGATGACGATAACATAAGACTGAAAGAAAATACTTTTACCATAGAAAATGAAAGT
GTTAAAATAGCATTTGCTGTTACTCTGGAGACAGTGCTAGCCGGTCATGAAAACTGGGTA

TABLE 1A
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AATGCAGTTCACTGGCAACCTGTGTTTTACAAAGATGGTGTCCTACAGCAGCCAGTGAGA
TTATTATCTGCTTCCATGGATAAAACCATGATTCTCTGGGCTCCAGATGAAGAGTCAGGA
GTTTGGCTAGAACAGGTTCGAGTAGGTGAAAGTAGGTGGGAATACTTTGGGATTT
Sequence 4283
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTTTTTTATGAAGGGGCTTTCTCGTGT
GGATAGCTGTTCAATTTGGCATTCCTGTTGGGGGGTGGACAGTGATTGCTGGAGGGTTTT
ATTTGGTCGTCTTGCTCCACCTCATTTCCTGACATAGAATTTTTGGTTGGAGATACTTTT
CAACTGGAATTTTGAATGGGCTACTTCATTGATTGTTTATGTTCATTGCAGCTGTTAAGA
TATCTGATGCCTGTTTATCTTAATTTGGGTTTCACCAAAAGCTATGCTTAGTAGAT
Sequence 4284
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGAATAAGGCTGTCAAATGATTTAGT
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CTTTCTAGGGCACTTCTGGCCCTGGGGCTTGGGGATGGCCTTTAGGCCACAGTAGTGTCT
GTGTTAAGTTCACTAAATGTGTATTTAATGAGAAACATTCCTATGTAAAAATGTGTGTAT
GTGAACGTATGCATACATTTTTATTGTGCACCTGTACACTAGGTAATAAAACTGATTCAT
ACAGTCTAATGATATCACCGCTGTTAGGGTTTTATAAAACTGCATTTAAAAAAAGATCTA
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CAANAGGGAATGGGCCAAGGTATGANGGGAAGGAAATTAAAAAATTAAATTAATTAAAAT
TGAATGGCCCCAAT
Sequence 4285
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CCAATNGCCTGCTTTNGATGATGNNTACAGGAANATGCTGNCTGAGCTGAACACATTTGC
CCAATNTCANGNGTGCACAGAAAACCGAGAATATNNANAATTCCAAATTTNTTTCTTAGG
AGCNNGAATATAATGCGGACCTAAAGGNGGNNAGTNGNNGGGNAAGGGGTNNTGNGCTGT
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TGCACTATTCTTCTCCGGGCATTAATAAACCAATTGTTCACTTGAAGGATGGTGAGTCCC
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GGAACAGCCACGCCCTCATGATATTTTGGGGCTACTT
Sequence 4286
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CCACCATGCCGGCTACGTTTTTGTAGAGATGGGGTCTTGCCTTGTTGCCCAGGGTTTCAT
CAGCTGTTGAGTGCGTCGGGGTGAGAGGCGCCTGCTGTTCTCGTTGTAAGAGGGAAGTAG
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ATTGCACCTTTGTCATAGAAGCGTTGAAGTCTTTGCCATCAGATGTGGAAGAGCCGAGAC
CGCCAGGCCCGATGCATATGGTTTCTGGATACCCTCATCAAATTTCGAGCTCATAGGGTA
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TTATTTGTCTGTAATTCTTAGATGAAGTTCTGATGAAAAGAAGAAAATGGATATGTCTTG
TCCAAAGTCTTTACTGTCAACTGGGAAGAATTCATTCTTGGTACAAAAATGATGTCCGTT
TTTGANGGAATTTAAAGTATTTTAAAATTGCTTCTAGGCTAAAATTATTNAANTTTCTTA
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AACAACCCCGAAAAAAAAAAAAAAAAAAA
Sequence 4287
CCCTTAGCGTGGTCGCGGCCCGAGGTACCTATTGTGTTCCAGGAATCCTTCTTGGCACTG
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GAGAGACAGACAATAACAGTAAGTAAATGCTAGACCTTTATAATTAATAATAAATGTTGT
TTGCAGTGAAGAAAACTGAGAGAGAGGGTTAACATAGATCAAATATTAGAGAAAATTTTA
TTGAGGAGGGGACATTTCAGTTAAGACAGGAATTCTAAAAGGGAGCAACTAAAAAGATGT
TGGGATACACTTTTATATGGCTGCATAGTTCTAGGCAGATGGAACAGTAATTGCTAAGGA

TABLE 1A
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TCTCACGCAGCAGATTTATTAGTTTTTGCCACATTGTTCCAGCTACTAGGTACACTGCCA
TGTTATAGTAAATTATCAATAACTAAAGGTGTCAACATTGTATTTAAGCCATCTTTCTAT
CTCTCANGGCCCCCAGTGGAGTCTCTTACATAGTAGTATGTGCTCAGACTGTAATCAATT
TCAAATGAAATT

Sequence 4288

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAAAGCAATTATGTAA
GAGTGTTCAAATAGTTAAATAGTGAATCAGATTGCATTTGAACATTAAGAGTGTGGTAGC
TAGCTAAATAGAGGAATAGCTGGGTCCTTTCTTGTGAAAAGTGAGTTTTTGATAATCCGT
GAGTCCTAGTCGTAGGTAATGCAAAATGAGGTAGCGAGGAGCCTTATTTAGATGAGTTAT
AAAATCCACAAATTATTTTGAATATAACACACTTGGTTTCAGTGCCCAATATTTCACTTG
TTCAAGAANGGAAAAAGTATCTCTATGAATCTAAGAAGCAGATNGACTGACACCAAACTC
TTCAATGTGATCCAAAATNGACACTTAAAATACAGAATCTTCTCAGGTCCCAACGTAGTA
TACCTGCAGTGCCTGAATATGGCCCTGTAGTACCTGCCCG

Sequence 4289

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGAACTTAG
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CATTTTAAACGTGTATTCAAAGGCAAGATGTAGAAGGTAAAGGAATGAAAACAAATTTGG
AGGCCTGCCTACTAGGCCATCTTAAATAAGAATCGATTCCAGCCTAGCACCCAGCTAGTA
ACTTACGGACGGTCTTTTGTCCATATTTTGGCCAGTTATTCACAGCACTGTTGAGGGCAA
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GCTTACACCTGTAAACCCTGCACTTTGGGAGGCTTAGGTNGGCAAAACACCTGAGGTCAG
GAGTTTGAGACCAACCTGGCCAACATTGANGAAACCCCATCTTTNCTTAAAATACNAAAA
ATTTGCTGGGTGTGGNGGCACCTGCCCTGTAATNCCAACTTCCCCGGAGTCTTANGGANG
ANAAATTCTTGNACCCTGAAGCAAAAGGCTTTCATNAACCCCAAAAAACCCCACTTGGAC
TTCAACCTNGGGGACAAAAGGGGGAACTCCCTNTTAAAAAAAA

Sequence 4290

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC
CATCTGTTAAACTGACAATGCCACTGTAAATTAATTGTAACCTATTTTCAAAGAAGATTT
CAGAGAGCCCTTTTAAAAATATTAAGACATAGTTGCTAAACAAAAGCACTTATTGGATTC
AAGTANGCTATTTAATGACACCAATATTTGATCTTTGTGTCCAGGGTCCCATGAGCCTAC
GTGGCATATTGCAAATATAATAAAACCCTCCTTTTCTCTCCCCAGCCATTACAACACAAG
CTAGCATGGAGTTTCGACGGAAAGGGGCACCAAATGTNCACAGACACCATGGTTTCCAAT
CCTATGTTTGATGCAAGTGAATTTNCTGATAACTATGAAGCAGGAAGAGCTGAGGCTTGT
GGGACACTGTGTANGGATTTTTTGTAGCAAGAAGACTGGAGAAGAGATTCTGCCAGCTTA
TTTATCCAGGTCTTGGAATTTTTGTTTGTTTTTTNCATTTATATAGCTTTGATAGTGAAA
GCCATTGGNTGGNTGGGCCGACTGAACCCGATGAGTGATGTTTGGT

Sequence 4291

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GTTGCCTAACACACTGAGTATAAAACTTTCAACTGGCCATCATGGGTCCACACAGTAGAA
TCCCAACTACACTTAACAGTCTTCTCTCTCACTCGCTACCATTTTTCTACTCCTGCTGNG
AGCAATAAACTATTCACAATGCCCTGAACATTGACTCCATCTACTTGCCTTANAAGTTTC
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TCTTTATTTATCCT

Sequence 4292

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AATGAAGAAAAGGGAAACAAGATGAGTGGGGTGGGTTGAGGATACTTCANCATTCAGCTC
CTCTGAGCTTTTGCCAAAGACGATTAGGACAGACAGCTGTGCCACCTGGGCTGNGCCTTC

TABLE 1A
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CCTTTCTCCTCCATAGCTGGGAAGTGATGGGGACAAGTGACAAGACTTGACCCCAGAAGC
CTTGCCC
Sequence 4293
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GAAGCACATTTTGGCTGTTTTGGTGTCAGCATCTTAATTAAGTAGAAAATATTATGGACC
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AANGTGGNGTTTTTCCCCCNTAGGGGCTTTTGAAGTACCAGTGGAACTTTTTTGCTTACC
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GAATTTNNAATATTCNGGAACNAGGAANGGCCANTAACTTCCACCNNGNTTGAAATCCNC
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Sequence 4294
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GTATACTTTCGGAGAAGCTCATGGTGGGGGAAACCTGGAATTTATCTAAATATTTCATTT
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CACCGTGACCAAATGAGAAATTTAGTGAAAGATTTAAAATCATTTTTTCTGACTTTTTTC
CACATTAGTTTGGGGAAG
Sequence 4295
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GGTATTCAATATACTTTATTTTAAAGTGGTAATTCCCAGCCTTGAATGAGTAATGTAAAT
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TCCAGGCTTGCTTGGATTGCCCGACACTTTACTTGAGTGTTTTGATGTGTGTAGTAAGAG
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NGCATGTGATTGCATGGGTGTGGGGGTTGGAATATNAAANTATTAACCCANTCATGGTTT
TATTTGGGTTTTTAACCNGGAAAAAAACCCCANAAAAAAAA
Sequence 4296
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TGCTACTATATCAAACCGACANTGAATTGGAATTGAAAAACCAAAGAGTGCTACATTACC
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ACCACAACATCTCAGAGTTCTTTCAGCTATCCTGGAAGTAACCAAGAAGCATGCATGTAT
CCCGGTA
Sequence 4297
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TGTCTTCGTTGCCTTCCTTGATATTTTCAGTTGCCCCCACAACTAACTGGTGAATGCTGT
CAATCTCAGCTTCCTGTTGCAAAACCTTTTCCGTGAATATCTCTTGGGGTCTGGAAATCT
CAACCACTCTCCCTTCGATTTGCCTCACTTCATCAAACAAGCTGTTCATTTCACCAATTA
GTCGCTGATTTTCCTGTTCAAACATTTGTATTTCTTCTGGGGATAACTCATCTTCGCCTT

TABLE 1A
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TGCCATCTCCCCACGTTCCCAATTCAGGTTGTGTTTCAACCAAAATTTTTTTCTGGACGT
TCTTCAGTGGCAGGGTTTTCTTCAGAGTCTTTTTGAAGGACTCTGTGAAACTTTCTCANA
AGAAGGGGGATTCTCTTGGCCTTTGGTATTTGGGTTCTGGTTCCAAGCTTAAAATAAATC
TTT

Sequence 4298
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AAGACAATCTTCACACAGGAAATTTTTACTGAGCAGGTTGTCACAGCATGGTGGCTGGGC
CCAGGCAATTTCCTGCAACCAGAGGTCCAAGAGACCAGCACAGATGTTATCAGGCATCTT
CCGACCTGGGGAAGGGGACCTGAGTGTTTGCACCTGTTTTGTTATCCATGGGAAGTATCT
ATCAGCACACCCATCCCAGGGCTGTTAGAATGAAATGAGGAAATGCTTGTAAGGCACTCA
GCACTTTCTTAACACATTATACATCCCCAGTCACTGACTATTTGTTATTTATTAATGAAG
CATGTGGGGAGGCTGTGACCTTGTGCTTGGCCTTC

Sequence 4299
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GCATATATAAATACGTATAAAGCAGACTTGCTTTAAAATGTTCTGAATCTGAAAATTTTA
GTATGTTTGTATTATAAAACTTTGAGTATAAAATATTGAAGGATACACACCTGAGATTTT
TCTCATAGGTATATCCTTGTAAGGTCAGGTCTATGAGATCTTTTTAATGAAAGTTAATAG
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TAGTTCAAAGCTTTTTTTTTTNGATTACTNGTTNNAATAAATCCACTATTTTTGCAAATTA
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AATTTATTNANGGCCTNANAANGNTNNNTNGCCGGCCTAAAATTNAAAANAATNTNTTGG
GNTTGGNAAGNTCCACTTNCNTAANATTATTTCNTTAAAAAAANAAAAAGGAAATTNTTC
TTTTGGNTCCCCCGAAGATCCCATGAANTTTTAAACCTTTTTTTTA

Sequence 4300
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AAATATTACAAGCAACCCAAAAAAAACTCTAGGCCTCTACCTTTAGAATGCGTTTGCAGT
ATTTAAGACTATTGTAGNTCCAAAATTACTAAAA

Sequence 4301
CCCTTAGCGTGGTCGCGGCCGAGGTACTCTCAGGAAGCTGTTCGTGAAGGATCTCCAGCA
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Sequence 4302
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CCCACATGACCCTTTAAAGTTCAACTCCCAAGCAGCCACAAATCTCTTTTCTGTTCCCCA
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TABLE 1A
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GGGCTCTT
Sequence 4303
CCCTTAGCGTGGTCGCGGCCGAGGTACGTGAAGAGCTCAAGTTCACATAACGAGGTTTTC
CTGCCGGGATCACGTGGCCCTCGGCGAAGGAAATCCAAACAACATTTTGTGGAAAAAAAC
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GGATTCAAAACCTTTTGGAGCCAGTAAACTTAGTTCCATTTCACAGGTGCACATAAAGAC
CTTCCTGCCCACCTCCTATGGACATGTCCAGGGATACAGGACAAGAGTGGGGTTAGAATG
GGTAGAGTCCACCACTCTTACTGGAAAGAGCTTGAGATTTATCACCTGCTAATGTGAGGN
CATTTTCAAATCCAAAGGAGAGGGTTTTATGTTAAATGNTGGNTGCCCTTAGACCTATTN
CAAATNCCAACTGGNATTTTTTTT
Sequence 4304
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AGCAAAGCACTTCCTAGTATGTTCAACTGGAACATGGCCCACACTGATCCATGGTCACAG
TTTGGAATGTGCTGAGAAGCTTCCATCTACAATCAAGTTTCTCAGTAAGAAGTCCCCGCA
GAGGGAGGGAGTCCACTGTGTACCTGCCCGGGCGGNCGCTCGAAAGGGCNAATTCCAGCA
CACTGGCGG
Sequence 4305
CCCTTAGCGTGGTCGCGGCCGAGGTACTAATGACTTAGGAACTTCCTTCTCCATCAATCT
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GTCTTAGAAATTCCACTCTTCCGGTGTTTACAACACCATTTTGAATGGTGTTTCTCCATC
TTTTTCAAATATACTCCAGTATTACTGAGCTCTATTTATTATACGTATAGGATCATGAAT
TATAAATGAGTATGTGTTAAATGAATGAGAAGGAAGTGGCTTAATGGTCTATAGGAGAAC
CGTAAGTTTTCTTTTGAGGTAACCGGGTAAATCATGCAGTTAAATGACAATGCTGTGTGA
ATGCACTGCTAGCTAACTGGCCTTCATCAACTCATGAGGGTATTTCTCTTCCTGGCATCT
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Sequence 4306
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Sequence 4307
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TGAGAAAATGTTGAAATGATA
Sequence 4308
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CCAGTGGGATGCCCAGTGGGAATGGAGTGGGAACAGGGGTCAAGCAAGCACCCAGGCCAT
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CGCCGCCACCCTTGCCACCCAGACCTACACACCCACGAAGAAAACCTTTACCACCAAATA

TABLE 1A
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CCCTGAGGTCAACACCCAGGCCTACTGGAACTCCCTTGGAGAGAATAGAGACAGATNTAA
AACAACCAACAGTTCCTGCCTCTGGAGAAGAACTGGAAAATATAACTGACTTTAGCTCA
Sequence 4309
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGATGAGGAAACTGAGGCACAGAAAGAGATT
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AGGAGCCCGGCCAAAAGAGTGCAGAGTCTTTAAGAGGGAAAGTGAGAGCTATTCAGAAAT
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AAAGTATTCATGAGTCAAGAAGGCTTACTAGAAGTGTGGAATTATAATTGGATTTTAAAT
AATGTTATATTTAAATATGTGAATGGTATATTTAA
Sequence 4310
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTAGAATATAAGATT
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CAATNTATGCTTACACATAGTTACAGCTCTGACAAATTANATATCTAATNGGGGTCATAT
CTCTGAAAAGCATTTTAAAACCAGGGGCAAATAGCCTGTGTATCAACATGGCAAGCACCC
TTTGTCCCAAGATAGGTAAGTCAGTTGGTAAAT
Sequence 4311
CCCTTAGCGTGGTCGCGGCCGAGGTACCTATTTAATTGTCCTCCATCTGAGTGGACTGAA
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CCTAAGGTGGAAAAATTTGGGTCAAAATTAATGATAAATGAAAAAAAAAGAGATAATACC
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CCAAATTNCAAACCCCNTTTTTAAAAAAAA
Sequence 4312
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Sequence 4313
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GAAATTCATGCTGTTGTTGACATAATTTTAAAGGAAACTTTTAACAAGAAAATTCATGAG
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TABLE 1A
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GGAAGTTTTATGAGGTTGAAAACTTTACTTTGAAATATTTAATTGGGAGACTAGACCATT
TCTTTTTCCAAAGTCATTCTGATTTATTGNCCTANTAAATGTATGTGTATGCATATATAC
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GAACATACATTGGATGGCTCCCANTCTATTTTATACTAAAACCTAA
Sequence 4314
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GGNNCANATGCTGGCATGTNCTGCCTGGGGCCANCTGAGTGTACCCTGTCACGGNCTTGC
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GCACNAATGTATCCCAGAAAGCCAAGGATTNTGTTAATGTTTACAGGCCTTTGTAGATCC
NCACAGGANAGCTNAAATAGTAATCCTGAAAATGACAGTAGGGGTGACCCCTTACCCACT
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Sequence 4315
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AGGCAGAAACTGAAGCTGAAGTGAAAAAAAAAAAAAAAAAAA
Sequence 4316
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Sequence 4317
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Sequence 4318
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TANACCTCCTTAGNGGGGAAATCACAATTGAAATTTGTATATATTGACACACTGACAANA
GTCTGGCGCCTGAGGAAAGAGATTCATGGATGGCATGTGCTGATTACAANAAGAAAAATA
ATGACCTCTGACTTGCTGTTCGTCTCCAAATATTCTACATAATAAATGATTAGCAGCCTT
AGAAATAATCTCAGCCTTTTCTTTAAAATGTCTAA
Sequence 4319
CCCTTANCAGCGGCCGNNCCGACGGGCNCAGANCTCCNATGGGTGAAACCANTGACATAG
AGACTGTCCCTGTCCAGTGAGTANGGGCCCANCTCAGNGATGCTGAGGGTCAGCTGGCTC

TABLE 1A
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AANTCCAAATNCANCTGCTCTNTGTCCANCCCACGGCCTGNGGGGTCATGGCNGCGGGTG
CAGATNGCACTNCACTCCNGAGGCTTNCCCATCTTTATNTGGCCTGAGCAANGTCAAGCC
TGCNACCAGGAATACAGANGGCCAACACTGGTGCTCTTGAACAAAGGCTTGAGCACACCC
TGCAGAACACTCTNCGTGATGTTGAACTTCCTGGAGCCAGNGTGACCCATGTTCTCCTCA
TACTGTAAGNTANTGATGNTGAAGTTTATTGTGAATGGNATCACGAGAGGGCCGGTGGCT
TGTAGTTTCAGGGAGGGAAGGTGGGATCCCAGAGGTTCCCAGGTTCAACTATGGAGGTCC
CAGGAGTGCTGGNGGTTGGTATGGN

Sequence 4320
CCCTTAGCGTGGTCGCGGCCGAGGTACTGATACTGTAGAACTCCAGTCAAACTTCAGTGC
ACTGCTTTCTTACAGGAAGACAACTCAGAACACACAGCCATAATCTGCTTTGGTGTCAGT
CACATCACAGTGGTTATACATTTGTCCTGAATGGTGATTCATTCCTTTCCATCTAACTTC
CTTGTGACAAATAGCATTTACTATTGAAATAGTCTTAAAATAGGGAAAAGAGTGAAAGTT
ACTCTTATGCATGGGAGTGGGCTTAAAGGGTTGACTTCCACCAGCTGAGTACCTGCCC

Sequence 4321
CCCTTAGCGTGGTCGCGGCCGAGGTACTGAACATGGTTGTCTCTTAAAGATGTGAAGATT
TTCTTTTTGTCGATTCTGCTTTGCTTTTGTTCTCTTCCTTTAGAGAGTGCTGAACTTTGT
TTTGGCAAGTAGGAACTTGTGCATCACCTTGACATAAATTAACTGAGTAGCTCACGGGTG
GGTGGATTTTTATAGGGGACATATTTGAAAACAAAGGTTGCAGCTGCTTTTCATAGCTAC
AAAGAATTTATCATCTCATTGAAAAAAATTCTACTTCTACACTAATTTATCTATTCTGTA
ATTTATTCATTAATTCATTCATTACCTACTAAATACCTTTTTTTTTGTTCAAGGAACTAT
GCTGGACACACGATGATATATCTTATTTTCCTTCTCATCCTACCAAACCTGGAGATGGAA
CGCTTAAAGCTTCTAGCTGACAACACAATCCTTTTATTAGGAACTTAACTTTGCTCCCTA
ACTCTTTGATACACTGAAACTGGAAGGAGTTCCTTTGTTTATTACCAGGGTTTATTATTA
TGGGAGTCTGGGTATGACTCTGGACTTTTAATTACCACCTGTCCTGTGTCTCAAAAAAAA
TTAACC

Sequence 4322
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTNGTTAG
ATTCTACCATATTGGTCTTGAACATTAAGACCCAGTAACGAAGGACACAGAACATCCAGT
CTTTCCACAACCTNTANAGAGTTAAGGGTTAAGCATGTGTGATGCCCTCGAAGCAGTTTT
CCTGAACCTGCTGANAGTGAAATGTGAGGAGGAAGCACCCTGTCCCTTTGGTATTAAAAC
TCTGTAGGGGAAGGGAGAAGGTGGAAACTGCTAANAGAATTTGGGGGACTGCCTAAGCAN
AAGTGATTCTTGTCTCAAATCCTAATGTCCAGCTCAAANAAAGGGCACATTTCTAGGANA
AGCAGGGTCTTGAAGTGAGGGAGGCGATGGTGAATG

Sequence 4323
CCCTTAGCGTGTCGCGGCCGAGGTACTGCATGCCTCCTTGCAGAGTGTTGTGCACAAGGA
AGAAAGCCTGGGGCCCAAGAGACAGAAAGTTGGATTCCTGGGATGATTTGCACATCAACT
GCTCAACTGTGGATTGTTTTTTACTTTTCCTTTTAAACCGGTTCGTATATATTTTTCTTC
GCTGTTACGAATTTACAGCAGCATTTGTACCTTCTCAGAAAAGAATGTTTGCAATGTTGG
CCCTCTGTCCAGCCACAGTAGTAGTGGGTCTAAGGTTGTAATTCAGCCTGATGACTCCTG
TTGTTAGGAGTTTCACAAGTGTGTGGTTTTTCTTATAGTAGGTATTTAGAAATTTGCTGT
GGTAACCAGGCCCTGAGCCCTCAACCAAAGGGTAACTTTGTTTTATTAACCTTAGGGCCT
ATCTTAACTGTAAAAGGGCATCTACTTTTGGTGTCCCAAGATCACATTTTNCTGCCNCAA
AGCATTTGTANGGGGGACTTAAAAAAAAAAA

Sequence 4324
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCACTTAATGGGCAAGTTTATGAACTTTTAA
CTGTCTTCATGGACTGGATTTCGGATCATCATCTTAGCAAAGTGAAACATGAAGAACCTG
GAATGGATGGTAAAAAACCACAACTCAAATTTGCTTCCCAGAGAAATGATATTCAGGAGA
AGTGTGTAAAGCTTTTGCCTCTAATGACAGAGCAGCTACAGTGGATGCCATTTGTGAATA
TCAAACTTCACGAGCCTTTTGTAAAATTTATATATTGGTCCCTAAGGCAGCTAGATGCTG
GAGCACAGCACTCGACTATGACATCAACATTGAGGAGATTGGGTGAAGACATTTTTAAAG
GAGTGGTAACTAAAGGAATTCAGGATAATTCTCCACAGCATTCTGTGGAGAATAAACCAA

TABLE 1A
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AGACAGCTGCTTTCTTTAAGAGCTCCAATTTGCCATTGAGATTTTTATCAACCNTAATTG
TTCTCAAACAGTCACTCAAAGCTGATTACCTGGCTCAAGCATTTGATTCTNTTTGGTTGG
ACTTGAAGGNCNGAANAANGGAAAAACCC

Sequence 4325
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGAAGCTTGGACCGCATCCTATCTCGC
CGACTCACACAAGGCAGGTGGGTGAGGAAATCCAAGAGTTTGCCATAGGAGAAANATTCC
AGNTGTAAANCNAATTCTNTGNCTNCATTNNNGGGGCNCTTNTTTATTNAACNATTTTNT
TGGACCCNATTAGAATANCCNAACAAGNTTTNAATANACTCTTTGGGTAGGCCTCAANAA
ATAAAGTNGGATCNAACCATAATANGTGTAACNTTNCTTTTCNNNNANCNCCCCAAAAAA
ACTATTGGNCNCCTACCCNAANATAANCTCNCCCTTTCTTTANTCTAAAGATAAGTGGTT
TTTTTGTGTNGTGGATTGNTAACCNCNAAAAACCNTTTCTAATTNTCNTTGGTGGTAACC
CTTTCTAAGGAAACCNATTTAAATTTGTAAATAAGNAAANAAAGNGCCCTTCCTTTAAAT
TT

Sequence 4326
CCCTTAGCGTGGTCGCGGCCGAGGTACCATTCATTTAAAGGCATAAATGTCCAATGGGGC
CATCTTGTGATACATGCACTGTCACAGGAAAAGTTTCCAGGAAAAGTCAAGCCAGGGCTT
CACAGAANNATNAAATNAAANGNANAACCGAGGGAGGAAGCTTAATTGTATTANTTCAAG
GATTCTNTAANGGACATGAACTAATTAGAATATTATATNCACACACAAACACACACACAC
ACACATATATATNCATAAATTTAAAGGGAGTTTATTAAGGAGTATTAACTNACACAATCA
CAAGGTCCCACAACAGGCCCGGG

Sequence 4327
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGNGCTAAGTA
NTANCCATTTTAAGCCAAAATAAAGTCCAAATTTCTTGTANACTGATNTGCATACCTGAT
CATTATATCATTTTTTTTCCCANAGTTTTCTTAAAACTCAAATATTGAATACCTAATCTT
TCTAAGCTAAAAGGTTGGAATTNTGGGGAACCCGTTTATAAAAATGAAAAGGGGTNTTAA
TNACATCAACATGCTGGCCATAAGGNAAAAAACATTCACAATTTTCCCCCTCATAATTTA
TGAACNTTTTATNCACANGGATNGAAAACCT

Sequence 4328
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGCAGCAGGCCCAGAGGCCACCAGAGGGCA
GAGGGCTTNTGTAACANNTCAAGCCTCTGGCTGACCCAGGGACTGGCTGCTTCACACTTG
CCCCCATGGCTCCGAAGTGGTAGGAGACAGGTTCCCTCACACCGGAGGCAGATTCCAGCT
CCAGCTATGCCCGCACACCTGGGTCTGAGCCACAGTCTCCACCTCTCTCCTCCAACCTCT
GCATCATTAATACTGCTCTGGGGTCTGAGAAAATACCTGCTTTTTCAGGCAGAGGTCACA
CACAGCCACATGACACACACGCCAAACCCTGACAGTGTTGCCCACGCAACCACTTCAAAT
CCCGTGGCACATACACCACAGTTCACTTGACTCTGATATGACAGCATAATACACA

Sequence 4329
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAATATAAAATAATACATATGAAGCCACAAT
ATTCAATTACAGTTCAAACTAGAAATTACTAACTACATGTAGCTGCTTCATTTTTCGTTT
TGCATTTTGGCCCCTAATTCATTATTTACAACTGATACCTGCTGAGAAAAAGATCCAAAC
TTTTAAACTTTGTATGTTTTGTGGAGGGTGCACAATTTCTTCTAATATATCTTCAGGTGT
TTTAAAATTTAATTTGTTTTTAATCATAAGATATCATCATGGCCAAGAGACTGGGAAAAT
AACAATTTTATTCTTTCTCCTAAAGATTGTGATTTTATTATTCCAAGATCTTATGCTTGA
ATTACTTANCAAGAAGGCATGATTATGCANAATACAGGGAAATGAAGAAGAAAAGAGCGG
GAATATACGAAAATGAAGCTTCCTTAACAGAGTTCATGGTGGAGATGGTAGACACTGGTG
GAGTTTTTATCCAAGACTTAAAACTTAGGAAACGCCTATGATGCCCACTTTAACTGGAAG
TAATGGAGACATCTGGATTCCAAATTCACATTTTAA

Sequence 4330
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATTTTCCTTGTAGTTCTTTTCCTTCAGAGA
TGAGTAGGGAAATGGAGATCAGCACATACCATTTGTAATTATACATGTTATAAAACATTA
TTTCCAAAGCCATATGTTACAATAACTTATGTCAGATTTCTTACATTTCTATTCACTTTT
GATGAGCCCATCTTTATCCAAATCCTTATATTTTCTAAAGAGAATAAATAAGTGGTTACT

TABLE 1A
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GAAAATTAATATCACAATAAGTCTTTAATAACATTTTATTAATAAGTGCTTAATTACATT
TCAGAGTATTCTTAGGTTATTGGCAAGTATCCCTCTTCTTGCATATATGTCTTCAAAATA
ATTTCAAACCATTATTCATATATATCTGNTTTATGCTTTTGGGGGCTTTCTCCCTAATTT
TATCTGNGCCTATTTATTGAACTACTTATTATACAGATTGAGCATCCCTAATTAGAAAAT
NCAAAATGCTCCA

Sequence 4331
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTAGTATACTTAAA
AAAATAGTAGTTTCATTACTTCCTTTAGACTTTTCCAACCTTTCCTCTTTCTAAATGTGT
CCAATATAGTTACAGTATTTTTTTTAAGTTTTAATATGTAAAAATTTCAAACACACAGAG
AGAAATAATAGCGCAATGAACTACCATATACCAACTACCTAGATTGAAGTTATTATTATC
TCATATTTACTTAATTGCTTTCTTTTCTTCTGTGTCCTTATTTTTTCTCTCTCTCCCTTT
CTGTTTCTCCCCTTTTCTCCTTTTTCTCTCTTTATATTTTGGTGNTGGTGGTG

Sequence 4332
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGTCTGAACATCAACACATACCCAATGAAGA
AAACTTGTAATGTTTTCATCAACATAAAATGGGTGACATTTGTATGTGAGGCTGCATCCT
ATTAAGAGTTCAGAGACTCCAGATCCATAGCAATGAAGTCGCCTCTAGGGACAGGTTCTT
CCATTAAGTGGTAAGAAAAAAGTAGCTTTTGTTGCTTTTAAAAGGTTATTTAACACTTGG
ATATTTCTAGCACCGTCAATTCTGAGGAACTCTACATATTTCAAAGCAAGTGGCTTTTGA
TCCTATGAATAGGTTCACTTCTAATTCAGCATCCTTCAGAAGAGCCCATTACTGGCTCTA
GAAAGCTGTCAATGTCCAGAGCAACACATTATTACTCTGTAAACTCAGTGATTTAGGTGG
AGAAATAATATCCACATTTTAAGTAACAAAAACCCCGAGGCAGCTTAAATGACTTNTTCA
AGCGACCTGGTGACTCTAGGACATTTATCTTCACTGCTGGTGCTTAAAATCCATCANAAA
ATAGCTCTNGACAGTGGAATAAACATCCCCACCATGGAATGAGCCCAGGAGACCTGCANA
GCCCCCTTTTAATTTTAAGAACCCCATGTGTNCCCCACCCCCCCCCNCTTCCTTCCCC

Sequence 4333
CCCTTCGAGCGGCCGCCCGGGCAGGTACAATCCCCTCGGAATGGTAGGCAGCTGCCATTT
AGAACTCTGTGATGAATAAAGAAAAATCTATATGGAAACAGAAATACTATAGAAATATTA
TACCTCTTCNAGGCNAAAAAAAAAAAAGGTGGGGGGTNGAATTTGGATGGGCCAAAAATG
GCCACCCCGTATTAAAATTTTTGGGGGGGTTCCAAGGGGGAAGGAAAACCACCTTTTGGT
TTCTTGGAAAATTTTANCCAACCAAGGGAAANAAAATTGGTNTTTNTTCCAATTAAAACC
NCCTTTTCCAAAACCTTTTTTTTTTTAAAANTTCCANCCAAGGGAANAAACCCAATTGGG
CCAACCTTAAATTTAATTGGGCCAAAAANAAAACCNAAAANGGTTGGTTTGGAACCCANG
GNAAANTTCCAATTTGGGGGGGAATTNANAAAAAAAGNTTNANTTTTTTTAANCCTTTTG
GGAAAAAAAAGGGGGTTNCCTTAAAAAAAAATTTANTTTNCAATTTCCAAAAAAAGGGTT
NCCTTAACCCCCAATTTCCTTTAACCTCCCCAAAATTAAATTTTNTTTTAA

Sequence 4334
CCCTTTCGACGGCCGCCCGGGCAGGTACTTAGTGCTAACAGAAGCAGTGAAAAACCCCGG
TGGGCAAGCAGGAAGAGTGAAGCTGAGCAGCCTAAGAGGATCTTTCATGGGCAATGATGT
GTCAAATTTAGGATCAAATACCTATAAACATAAGTAAAATGTTTACTTCTTAAGTTTTAT
TAAAAATTACAACTTGGCTGGGTGCGGTAGCTCACGATTTTTTTTTTTTTTTTAGCTCAT
CAGCTATTGTTAGTGTTAGTGTATTTTATGTGTGGTCCAAGACAATTCTTCTTNCATTGG
GGACCAGGGAAGCCAAAAGATTGGACACCCCTGTCTAGGGCAAGGATTCCAAAAGTATGT
TCTGTATAAAACTTGCATAGAGATTCCAGGAACACTTGTTCAAATGCAAATTNCTGGTCC
AGATNTCAAAGATCAAGCTCTGCACGTTTGGGACATTTTTAACAAGCAACCCTCATGATT
TTTATGATNCTTAAGTTTGACAATTTCTAGGGCCTTNGNCTTCAAAATNGCACATGCATA
CCCTTTGAGAACCACACCAACATTTTCCCATGGGGGGTAAGGGATACATGCCTNAGCTTT
ATTGGAAACCCANTTAAAGANNGCCCATTTCCTTATNNGTTGGCCTAAAAAATGTGCCTT
GNNTGAGGCCCCTTNANAANTACCCATTNCTTTTTACCCTCCTTTAAAAAACANGCTTAC
TCCTTATTCTTCCAAAAAAAAAA

Sequence 4335
CCCTTTCGAGCGGCCGCCGGCAGGTACAAAAAAAACCTAAAAATTGTTTCAGGAATGTAG

TABLE 1A
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AGAAATATCCAACTTAAATAGCGAAAAAGTGCACCATACCCGCGTACGCGGGAATGAAAC
AGATTTATATACAGAGAAGTGTTATTTATAATCACAAAAAGAAAATAGAAAATATGCCAA
GTGTTATGGGAGTGTTTAATTATAATTTGTAGAGACAATGAAATATTTGACTACCAATTA
AAATGATATTTAAGGATTTTTATGATATGGGAAATATTTGTGACATATGCTAAGCCAAAT
GCAGGATACAAA
Sequence 4336
CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTGCAAAAAGTCGACTGTGACTGTGTAGCA
TTATGTTCTGTAGAATTTTTTTCAAGTAGCATAATTTATTTATTGGTGTGAAAACAGCCA
AAGGTTCCGATATCCTCACAAATCATTTATGCCAAACATCTGAGGGCAAAATTTAGCCGG
TGTTATTTACTAGATTCTTCCCTTTGAACTCACAGACTCAAGAGACAGACCAAGAGTTCT
TATATACTCACCACAGCGGACCAATCCAAGTGGCATTTTTAGGAAAGGTTGCAGCATTTA
ATGCCATGTGGTACCGTCTGTTCGTCAAGTGGGTGGCAAGGGAATATCCAAGCTGGCATT
TTGGATATGATGGGCCTTTTACTTTCCTGAGTGACATGCCACATGTCAAGAAATACTGCT
CCCCCCCCCCCACTCCCATCACATTTACGTGAACAATTTTCATTTAGTTATTTCCCGTTC
CATATGGTGTTAAAACAGTCGTATTAAATAAAGATTATTTCTAGTTTTCAAGTGGTA
Sequence 4337
CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGTNTAAAATTCTAAGTNTCTANGATTAAAA
GTCCAAAAATAATCATTCAATTTTTAAAAAGTAATTTTATGACCTTCATAAGGGAGAGAC
CTCTAACCTCCCGCAGTTGAGCAAATACACTCTGAGAGACATTANGGACTGTGGCAAAAA
GCAGGCAATCCATGTGTGTCACTTAAGCCTTGAGCACAGTTCANTAGGCAACAAACCAGN
AACTGTCCTGGCAGATAAAACAGACTGTGCANGGCATNGTCATCGGGATGGGAAGGGCAT
TATTA
Sequence 4338
CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGCAGATT
CCTTGTCATGAAATAGTTTTGTATTTTAATTAGATTCATGGCATTTTTATTACTTATGAA
AGTAAGTTGTGGTTCATGTGTTCAGCACTATTCTGTTTTGTTTTTCAGCGTTCCAACATT
CCAGAGCCTTCCTGAAGAGATCCTCAGCAAGCTTGCTGATGTCCTTGAAGAGGTAATTGT
TTTTAGCCTTTGAACTTTTTGAGATGGGATCCAGCCTGCTTGGCTGGCTTCTTTCACAGC
TGTGTGATGAGGAATCACAAACTGCAGAGATCTTTAAAAAATTTCTAAGCTCTGGGATGA
GCTATATATTTGGCTTCGTATAGAAAGCAGCTTATCATGTCTGACATTTATATGCAGAAA
GGTGCAAATCAACCTAATTATAGAGGGAGACAAACTTTTTGTTGTGATAAATCCATGTTA
CTTTGACTTACTAGAATAGGAACTGGCATATTTCTCTTATTTAACTAGTGTAAAAGTAAA
ATTGNAGTTATCACCACTCTGAAACTTCAGATTACAATTTACAACTANGGATTAGTAGNT
GGGGCACATATTTTTATTCCCTATAAGTNTGTTTGGAACACATAATTTTNTGNCTGAAAA
GNGGAAAGCCCCCTTTTANTTGNTTTTTTTTNAACCCCCAANCTTTNGTTTTGNGAAAAN
AGGNGAAACNCCCC
Sequence 4339
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAATGGGAGGAAATAAGGTAAAAAAAAAAGA
TATGACATACAGAAAAGAAATAAATAATAAAAAAAGTAAAGTAAGTCTTTCTATATTAGT
AATTACTTTCATGATAAATGGGTTAAATTCCCCAATCAAAAGTCATACATTTGCAGAATG
AATTAAAAAATGGATTAAATTATACGCAGTTTGCTAGAGGATAATTTTGATCTAAAAGAT
GAGTGGGTTGAAAAAAATAAATAATGATATAACATGCAAATAGTAAACAAAAGAGAGCAG
GGGCGGCTATACTTATTTTAGACAAAATAAACTCTAAATCAAAAACTGGTATAAGAACCA
AAGAAAAATATTATACTTTGATAAAAGAGTCAAATCCCAAAAAGGTATTAAAATTATTAA
CATATATNCNCCAAAACTCAGAGCTTGGAAATGTATGAANGGAACATTGGCNTTATGAAA
CATNGAAATTCACAGCTCCCAGTAAGTCANAAACTTCATTATCTCATTTGCCATAGTGGA
TTAAACCACCNGACTTACNTTTATTAGGNAATNGAGGACTCCGCCGANATAATTGAGTTT
TTAAACCAT
Sequence 4340
CCCTTTCGAGCGGCCGCCCGGGCAGGTACACACCACCACGTCCAGCTAATTTTTGTATTT
TTAGTAGAGATGGGGTTTCAGCATGTTGGCCAGGCTGGTCTCAACTCCTGATCTCAGGTG

TABLE 1A
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ATCCGCCCACCTNAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGTGCCCAGC
CTCAGAATGGTTTCTTTTAACTGCTTTTAGTAAAGTGCAAGAAGAGAGAAACTATTTACA
CAGATGGAATTTATAATTTAAAAATAAGCAGAATATAAAGGTTAGTGATTTATTAAAACT
ACATGTCTTATCTGTTGCCAGCATCATGTAGGCACAACTCAAAAATGGGACATGAACAAG
AGCATAAGCTTCAAGAGAGCGTTTGAACAACTACAGATGATCACTACACACTCAGTAGAT
TTTAAACCGTGTTCTTCTCATTGGTCATTTATTTTGGGGATTGAATTGAAGCATTTCCTT
TCTTGAATACTTTCAAGTTCCAATGGGCAGCAAAAATATTACTTGGATTTTGGGGTTCCC
AACCTACAAAATTCTAACCCATTTTTCAAGGTGACAGAAAAAAACCATTTGTACCCCGGC
ATTGGGAAAAAATTTCCTTGAGGCCTTTAACAACCACATAGAAAAANGGGCTTTGATTCT
TTTTCCAAAACTTTTAGCCCTAGGGTCTTTTATTGACNGGGGATAGTAAATGGAAATTGG
NAAATTTTAGATGAAAAG

Sequence 4341
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTTCTCTGCAGAAAGCAGAAGACTATATGA
AAACAACATCCAACTTCAGTGGGAAGGGATATATCATTCAGAAAAGAGAAATAAAACCAT
GCTTGGAAGCAGATAAACCAGTTGAAGACATACTGACGTATGAGGAATTTCATCCTTTCT
TGTTTTCTCAACATTCACAATGTCCATATATAGAATTTGAATCATTTGACAAGGCGGTGG
ATGAATTTTATTCCAAGATAGAAGGCCAGAAAATTGACTTAAAAGCTTTACAACAGGAAA
AGCAAGCATTGAAGAAATTAGATAATGTT

Sequence 4342
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCCTCACAACAAAGAATTATCTGGCCCC
AAAGGACAATAATGCTCAGATTGAGAAACCCTTGGCTATCAGGTAAACACAGGCTCTGGA
ACTAGATTTCCTGGGTTGTAAGCTGCATAATATTGGAAGCTCTGTTTGGATGGACACGTG
GGGGTGATCTGGGACATAGAAACCTGGAAAAGCTGATGAAAGCTGATTTTCCCTTGAAGA
AGACATTTGGAATGAAGCAATGTGACCTTTAATCACCCTCAGACCTCTTTTTGTTCTTGT
TCCANGACATTCTGGGTTTTAAGCCAGATGATACCAAAATGACCCCAGAACCAGAAGATG
GCAGAGCCACAAAAGTGAAAAATCTTGGGTCTCTGAATCATAGCTTGGAGGAGGGCTTNC
TGGAAAACCATCCAACAGAGACATNCGCATTAAACTTTGTGTNAACAAAAAATAAATCTT
TCTTGTGGTAGGCCACTGAGATTTAAATTGCTTCAGCAGCTTACCGATCTGCCAATCAAC
ANANAACTTCTTCAGTGCTTTTAAGTGGTTTACAGACCCCTTAATTNTTAAATGGTNGGA
ACTTTTGGACCCAAAAAACCTTTCACTGGAATGATGCCAACCAATCTTGGTTGNGGGAGT
CAAACCTGAAAAGTTNGGAATNCCTAAAATGGCCTCCAACCTTTANTTCTATTACANAGC
TTTGATTTTACCGGTCGGTTTAGGAANCNTNTTTCTNTTTGANAAAACTTGTTGGGGGCC
TAATTTNATGAAAACCNAAAGGCCTTAAAAAAAAAT

Sequence 4343
TGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTGCCCATCACAAATGTAAAAG
CACAAACATACTTGTTTTTGTTTCTGACCTCATGGTTGCAGGAAGCTGGCTGAGAACAGG
AGAGAATGGCTTGGGGGAAAAAAAAGCTCTTTCAAGTTGGCCACCCCAAATCACCCAGAT
GGGTGTCCAGGCAAATCAGGGCCTCTAGACACTTGCTCTTCTTTTCCTCTTCTACTTGGC
TGGTATTGTTTTGAGAGGTGAATTTCTAGGAGGGCAAGATTTTTGTGTGTGTGTGAAACA
AGAGAAAGGTTATCTGCTTAACCTAGCTCCCTGAGGAACTTAATCAAGTCACTCCCATTC
TGGCATTTGGGTGGGTCCAGGCAGCACCCAAGAGTCCAGGACCTNACCAGGTCCAGCTCA
ATGACAGACTTTGTATGGGAAGAACTGGGAAGGAGAAAAAAAGTAAGCATGGATTCCTGT
TTATTTTGCCC

Sequence 4344
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC
CTCCCTATTCCTTTGATAAGCCATTGCAAAGCCTGTCTAAAACAAAGCTATTTGCTTCAT
TAGCTAAGACTACGACTATTTTTCAACATGTCTGAGGAACGAGACCAGGCTTCTCTACTT
TTCAAAACTCCTCAGGTGATTCTTAGCAACCAGATTAGCATCAGTCCTTAGAACAACCTC
AGACACCCACTAACACATGCCCTAGAGAGGCTAAGTAACCCGAAGGTCACAGAACCACAG
AGTTAATTAACAACGACAACAAATCACCCTTGGTGTTCCTGATTTCCGTCAAATAGCCCG
CCTTGCTGAGTCAGCACAACAAAAGATTTCATAACAAGGTAAAGTCGTCTTAGTAATGCC

TABLE 1A
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CCCTTTCTAAGAAGTTACNAATATTT
Sequence 4345
CCCTTAGCGTGGTCGCGGCCGAGGTACATCACCCTGCTGAGGGACATCCAGGACAAGGTC
ACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCACCAAC
TTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCC
AGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGC
TCCACCTACCAGTTGGTGGACATCCATGTGACAGAAGTGGAGTCATCAAGTTTATCAACC
AACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACCATA
TTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGA
GGATGCGCTCAACCAACTCTTCCGAAACAAGCAGCATCAAGAGTTATTTTTCTGACTGTC
AAGTTTCAACATTCAGGTCTGTCCCAACCGGCACCACAC
Sequence 4346
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGTCTTTCCCAGGCCGCACCATTTCTG
TCACTCACATGGACCCAAGATAAAAGAATGGCCAAACCCTCACAACCCCTGATGTTTGAA
GAGTTCCAAGTTGAAGGGAAACAAAGAAGTGTTTGATGGTGCCAGAGAGGGGCTGCTCTC
CAGAAGGCTAAAATTTAATTTCTTTTTTCCTCTGAGTTCTGTACGCGGGTATGGTAGTTT
TACATTACTTACTGGACATTGTGGGTGATAGATTTTAAAGTTTATCTCCCACTAAAGAAT
GTTGAATTTTGTCAAGATTGGCAGATCATCTTGATCCTATGGATGCTAGGTTTTAGGACA
CGTTAGGGTGGGCCTACTTCTGTTCTGCCCTTAGTCCGATGACACAAATCTTANTCATGG
GATAGGGCTCTTATTCCCAAGATGTGACCCTTCTAGGGGTTCAA
Sequence 4347
CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGGGATATTCCAATGCCTTTAGTTAGCTCAG
GAGTAGAGCATGGTAACCTGAGAGAGCTGGCACTTGCAAGAATGAAAGACCTCGGAATAC
AGTTGTCCANGATGTTAAGAAACCANAATAAAGTTTGGAANTCCCAANNAAATTTNATCA
CAAAAAGTNACCCAGGGGGTTTTAATNGTATACCACTTTAAGNATTTTGGGGGGGAAATG
GCAAAAAGGGGAAAGGGGTTGACTTGTTTAGAATTTCCTTTGGAAATGTCTGTGCACATT
ACAACCGTCCCACGGAGCCAAAATTTCCTTCCAAACTGATGAGCAAGCTCTTTGATTCTT
GANGTCATGATGTTATTTTTCCTTCTTAATTT
Sequence 4348
CCCTTTCGAGCGGCCCGCGGGCAGGTACCTATTGTGTTCCAGGAATCCTTCTTGGCACTG
GGAATACAGAGGTGATGGGCAGGAAAATTCCCTGATTTTATAGAGCTTAAATTCTTGTAG
GAGAGACAGACAATAACAGTAAGTAAATGCTAGACCTTTATAATTAATAATAAATGTTGT
TTGCAGTGAAGAAAACTGAGAGAGAGGGTTAACATAGATCAAATATTAGAGAAAATTTTA
TTGAGGAGGGGACATTTCAGTTAAGACAGGAATTCTAAAAGGGAGCAACTAAAAAGATGT
TGGGATACACTTTTATATGGCTGCATAGTTCTAGGCAGATGGAACAGTAATTGCTAAGGA
TCTCACGCAGCAGATTTATTAGTTTTTGCCACATTGGTCCAGCTACTAGGCACACTGCCA
TGTTATAGTAAATTATCAATAACTAAAGGTGTCAACATTGTATTTAAGCCATCTTTCTAT
CTCTCAGGGCCCCCAGTGGAGNCTCTTACATAGTAGTATGGTGCTCAGACTGTAATCAAT
TTCAAATGAAATTATTTTTACTGATGTAGAAACTCATCGGATTAGCTGNTTATTTT
Sequence 4349
CCCTTAGCGTGGTCGCGGCCCGAGGTACGAGGTTATCTGTGTTGTGCTTAAAAGGNNTCT
CTACATAGACCGGAAAAAANGACTTTTGTGAAATTGTTATANNNTAACATTTATCATTCA
GAGAAAATATTCTGTAAATGTTGATTTAATGTAATAGTTTCCCTTAAAATAGAATTTATA
GAGAATTTGAAAAGAAAACCACAAGTTAATTCACTTTTTAAAAAACTTCATGTCATCTGA
ATACTTAAGCTGCTTTGTTTGGAAAGTGTCTTTTTAAAGAAAATAGTTAATAAAATTACA
AGTAAGATAATTGTCACAAAATAAAAATCTTAGGTGGCCCAGNTGTGTATTACAGAGATT
TGGGTTTTAACAGTTATACAAGTTATTTAAGGTGGGAAACCATTAATATTAAATTTTAAT
TAAAGAAAAAATTTTNGCCACCNAAAAAATCTNNCCTTTCACTTAAGAATATAAAAATGG
TATTAGCTGGACCCCCAGCCAGGTTGGCNACTGGNGGATNACNATGGTTTTNCCC
Sequence 4350
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGTTACTCTTACAGATGTCTCAATTAATTT

TABLE 1A

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TAACCTCTATCCCTAATGGTGTTTAAATTTTGGTAAAGAAAAATTCATTTTTTCTTTATT
TTCCAAGAAATGGTAAGCTATCTTTGTCCCTATGGGAGATGTGGACAGAGAAAACTTTCT
GTCTCTGATGTCTTTTGTGTGAGACAAGATTTTAGGAAATAAATAAGTGGTGCANGGAAT
TGTGAGATTACATTTCACCTCCTTTTCTGTCTCCTCTCTCTTTTATATAATCTTTATCTC
TGCTTCTAACAATCTCCTTATCAG

Sequence 4351

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTAAAAATGTAACTTATAAACACAGGGA
AAAACAAAAGGTAGACCTTTCCACAGATTGCTAGACTACTTTATGCATGAAAAAAGTCTG
TTTCACTGATATGAAATGTTAATGCACTATTTAATTTTTTTCTCTTTGTTGCTTCAAAAT
GAGGTTGGTTTAAGATAATAATAGGACATCTGCAGATAAGTCATCCTCTACATGAAGGTG
ACAGACTGTTGGCAGTTTCAAAATAATCAAGAAGAGAAATATCCTTAGCAAAGAGATGAC
TTTGGGGATCATTTGAGGAATACTAACTCTGTTGCATTAATGCTTCAAAAAATCATCAAA
TGATTCATGGGGGCCCGATTTGCATTTGAAAAATGTTTGAAATTAGAGTCTCATTTGTTT
CANGAATGCAGCTACCTGAGTTTTTTGTCTTGGCAAAAGTCACAAAGCCCATATACTCCA
TTGTGTGTCTATATTTGCCAATTAATTCTAAACTTCTANGAAATATGCCCTCTCTTAAAG
GAGAATTTTT

Sequence 4352

CCCTTAGCGTGGTCGCGGCCGAGGTACGAAGGATCCCCAAGCCCTTCAGGCCCGAGATCA
GAGCCAGATCAGCCTTAAGTCACCTCCCATCCAAGAACTTGGCCTAAAAATACTCCCCTA
TTTTTNAAACCCCTTNANNGAACNGGGATTCTTGNANTTATTTAAAATGGCCTTCCCCCT
TGGGGNAAGGNAAAAGGGGNTTGGCNTTTTTCCCCCCNCTCCCNCTTAAGGANGGGTTGG
CCNCNCAATTTTTCCCAATTAACCCCCCNTGGNGTGNATGAAANCTTGGTNANNGNAAGT
AAGNNCNANTTTTNGNGTCTTTGNNAAAGGNCNACTCAAGATTTTCCCCCTTTTTTNCCC
CCAATTNCCCCAATTTCTCCCCCCTAAAACCCTTCCTCCAAAAATTAAAAATNTCCCCTC
CCCCCAACNTTNCCACTTTCGNGCNAAAGGGGNTTNCTTTTCTAAGGGTTNGGTATCTAA
NTNGGCCNTTGGNTTCCNTTTTGGNGNGNGNCCAAGGNGGGGNTTNGNAAAAAAN

Sequence 4353

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGCCACTCAGAAGACCTTCACCAGATA
CTGAGCCTTGATTTTGGACTTCTCAGCCTCCAGAACTGTGAGAAAATAAATTTCAGTTTT
TATAAATTGCACAGGCTGTGATATTCTGTTTCAACAACACAAAATGGGACTAAAACAGCC
TCTTAAAGCTCAACGTCCCTGGTGGGTGGTCAGCCTTGTGCTGTTTGGCCCTGCAAAGCC
AGTTAGTTCACTAATGCCATGAATGGGACAGAAAGTAAAGATCAAGATGCCCTTGGGAAT
TTGTAAGCTTTGGTGCTTTTTTCTGCCTCTTGAGAGAAACACCTCTCTGAGTTAACAATA
TAANCTCTCTTTTTAACACTTTAAAATAATTATTACTGGGCGGGTGAAGAATTTTAGTTT
GATTCTAAAACATCGGGATTTGAGACTTTCTTAACTGGAAATCCAGAGGTAAGTTTT

Sequence 4354

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTATATTAACGAACTTTATAAACCAGCAAA
ATATGCAATAGGAAAATGATTTAAAAGATTATGGTAAATATTTTTAGTAGGTTAATAAAG
AGGTTGAGAATGAATTCTGAGAACCCCTGACTATTAGATTATGAGTTGCCTCTAGCTCCC
TTGATCAAAGAGAAACAGGCTTTCATGTGCATACTTGGCATAATCCCTGGAGAGAAGTAT
ATTAAGAAAATGTTTTGAAATGCTTCTTTTTAATTAAAAAAACACACCCGCGTACTTCCA
CTGCTGTTTTAAATTTCCCAATGTATGGAATCTGGAGATCAATTCTCAGAAACCTCTACA
AATGTTCAGATTATGAGAAAATACTGCACAGCCTTGAAACAACAATAAACATTTGATCTC
TCACACAATTTTTGTGCATCAGAAATCTACGAGCAGCTTACCTGGGTGATTCTGCCTTAA
GGTCTCTCATATGTTGCATTT

Sequence 4355

GCTCCAGCNGTCCGCCNGGTGCCGACGGTGTATCTGGATATATTCACNNTTAGCCNTGGN
TCGCGGCCGAGGTACCGCGGGAGAGCAGCACGTAGCAGGCCCCCGTGGAGGATCCACACA
GTGGCTGAACACTGGGAAGGAACTGGCGCTTGGAGTCTGGACATCTAAAAGTTGGTAAAG
TGACTGTGTCAGGAATTGGTGGGTTCTTGGTCTCACTGACTTCAAGAATGAGGCCGCGGC
CCCTCGCGCTCCATTGGGTTAGAGTCTCCCCGAGCGAGCTGGTCTCGGCAAGTGGCGTCC

TABLE 1A
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ATTCNTGGAGGCTCGAATCCAGGTCAAAGGGTTGCTGGAGCGACGGTTGGAATGGAAAAC
TAGCTGGAAAGACACCCAAGCACTCTTAAAGCAATCCCCGTGTTCTGGAGGCTGGGAATG
CCCAAGGTCAAGATGCTTGACAAAATGATGANAGCTTTTTGCTGCATCCTCACATGGAAG
AAGGTGNAAGGGCANGGAGAGAATAAACTAATGCTAGGAAATGCCTTTTTTAAAANGGGA
CTTAGTCCCCATTANCAAAGAAGCATGTCCTTATGGCNTAAATCATCTCATAAAAGCACC
CACCTCTTTAATTTCTCAAAAAAANAAAA

Sequence 4356
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTCTTGCCCAGGATTTGCACTCCACTGAG
AATCCAACTATAATTGCCAACATTTTCCACTTCTGTTGTTTAATTATTTCAAAATTCAAG
TAACTATAGGCATCCTGAAACAGTATGCATTCCCTTATATTGCTTCGAAATCTCATATCA
CCTTTTTGACTACATTTAGAAGGCACGAAGTTTGGACCTGGAAGCACAGGTCTACTCCTC
TTCCATGGGAGACCAATAGCAAATGGAATCCAATGGAGCAGCTTCGACTATCACTTGGAA
GCCCTCTGTGAGCCACTAACCCACCCTTCTTCTTTGTGGCTTCTTTTTGAGCTTTAGATT
TGTCCAGCTAAAATCCTGTGTATCTTTAAAGCTTANCTCAAATGCCATTTTCCAATGTAA
AGCTTTTTGCCCACTGGTGNAACCAGAAATGATGTNACTTATGACATAACCCCACTTTTG
GACAAAAGTTGTATTCAAACCCCTTGCCTTTTTCCTTNTTGGTTATTGCCTAATTTATTA
ATTGGCCTTCCCCGACACCTAATGCAAGTGGCTTTGGTAAAATNTTTGCTTAAAGGCACC
CCAAAANATTGCTTTGGAGNCCAAAACCTTGTNTNCTTTGGNANGTNTTATTAAAAAACA
ACCCCNCCCTTTTTANGGGGAAAAAATTTTTTTAAACCAANTTTTTTTAAAAACCGGGGC
TAGGGTCCCTTTGGGCNGGATTTTTNCTTGGCCNGGCTTCTNNAAAAANTTTT

Sequence 4357
CCCTTAGCGTGGTCGCGGCCGAGGTACAAATCCCTCAGTGAGAATCAAGGTGTGTGCCTT
GGTTTGGAAAGGAGGGAGTTGACACTGTGGAAGGCATAGGAATCTGAGAGGCAACTGTGA
GCTGCAAGACTCCCTGCAACTCTCTGGGCTTCAGTGTTCTCACCTGTAAAATGAGGATGT
GCCAATTAGATGATGTCTGTTAACTCAACAAAAAATTACAAGATATAATTTTAGAAAAGG
AGAGGCGGAGACAGGACTTTATTTCTCCTAAATGGTTGCAGCCTGCCAAGTGGCCAGCCC
ACAGGCTGGGAAGCATGCCTCTGGCCAAGGCCCAGAGACAGGCACTTTGAAAGAGGAAGA
ACTTTATACTGAACAGGCTGGCTCTCTGCACTTCTCTTCCTAGAGAATCTCCTGGCTGGC
TCAGCCGACTTCAGCTCTCTGCTCAAAAGTCATTTCCTCTGAAAAGTCTTCCCTGCTGA

Sequence 4358
CCCTTTCGAGCGGCCGCCCGGGCAGGTACACTCTAAAGAAAGCCATGAGGATGATAATCC
ACTTTGATACTTCCAATCTGCTGGTCTTGCTGAACTCTTTGGATCATGGATATCATAAGT
TCGACAAAATATTTTTTTTTGTAGAAGCACAAATGTGAAGTGTCACTCGTTCTGAGACTTC
CTCCTCTGTGAAATTCCACAATCTCTTTCTATTTATAGACTTTTCCACAGCAAACATTAG
TCTACGCAGGGCATTTTGAAAATCATTTGCCAGTTCTAAAGTAGTAATAATAAATACTCC
AAGAACTAAAAGTCCCCCTGGTAGCATTCTG

Sequence 4359
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTGNCATGCA
TGCATCCACNCTGGCTTTATCCTGACTTATGAATCCAGCAAGGCCCACAGAGGAACATCT
GGTTTTGACATTAATTTCTTCTACTCTGCAGGATGGTTGGGTTTTTAACTCATTGGGGGC
CTTTGGCTANACCTTGAATTTCCTGGNGCAACTTGACAGAGGTGAGAGGGCTTGAGGGAG
TTAAATAAAACTATGTGCTGCCCTTGAAAGGACTTGCAAATGCTTTATATATTAAACAAA
GAAACTCCAC

Sequence 4360
CCCTTAGCGTGGTCGCGGCCGAGGTACCTTCTTGAGAGATATCAAAGAAAGTCCAATATC
CGTTCTTCCCCATCACTCTACAGTGTATCTAGTAATAATTATTTGTCTTAATCATAAGGA
CAAATAATGAAAATTATATTTCAAATTTCTAAGCTTTTGTGGTTAAAAAAAGCTTCTAGA
AACTATTGTTTCTCCTCCCATGCAGTTATAATATGCTTAACTTTCTTTAAGATGGGTGTT
TGGTAGTATCATTTACAATATATTTATTTTTGTTTTTTAAGCATGTTTTTATATTTGTTT
AAGGTGGATAGGCATGTAGACCTGCTAGAAGTTGCCCAGGAAACTGATGGGTTTTCAGGA
AGTGACCTAAAAGAGATGTGTCGAGATGCTGCCCTCCTCTGTGTTAGAGAATATGTTAAT

TABLE 1A
254/599

TCTACATCAGAAGAAAGGTATGTTATTTTGACTTGATTTTTAACACTTGTCAAAAATCTT
TTANAGCTTTTAAGGTAGNTTCTTTTATTTTGCCTTTATATTANAAACACCCGCTTATGA
AAATAAAAGGTAAATTTGGGATTATCACCCCCCTGCAACCTTTATTTATTGGCCATTTTT
TCCAAAGCAGAATTCTGAAAAATGAAGGANGGGCANAATTGGTGGGGAAGGGTCTTANAA
TGGAAAGGANAAAAAAAGGN

Sequence 4361
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCACACAATATAGAGCAAAGAATAAAGAAAC
AAAAAAAAAGGTAAAAAAAGACAAAGAAAATGTAAATCTTGATAGTTGAAAGACAAATTC
AGCTCAAATTCTCCTCTGTGGTTTTTCTCTTCCACTTGTCCATATTCACGGACAAAGAGG
CTACTGGGAGAAGTTCATGCTGCCGCTGAGTTAAAAGGAAGATGGCGGCATTGATTCAAG
GTAGGGAATCATGAATATCCTGTAAAGGAACCACCATTGTAGCANGACGAGCTGCATACA
AAACCCCTCAGACACCGAGTTGTAGAAGGAAGGGCTTTATTCAGCTGGGGGCATCAGCAA
GCTACTGTCTTAAAATCTGAGCTCC

Sequence 4362
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAGCTTTTATTCATTTTATTATTCATCTTT
ATTGCTTTCATTGCACATGCTGTTAACTTCTTATGAACTCTTTGTTCTAATAAATAAGCA
TATCCAGGTTTTTTCATAAATAAATGAGGAGTCTATAAATTCTTACTAGTTTTTAATAGAAA
CATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCATTTCC
TTTATGTTTGAATGTTCCTTCCAGGTCTTTGAAAATATACATTCTGAGTTGAAAAGCTTT
ATAATAGGTAAAACTCATTAACCCATATACTTTCCATGCTGGGCACAGCAGGTGTGGTAG
GTAGAAATATAAGATGACTCCCAAGATTTTTGCACCCTGGCATACACATATGCTTTTCCA
GTTGTTGAAACACTAATTTAGGTGCTGCTGTGAAGGGATTTTGTAAGATGTGAATAATGT
TCCAAATCAGTTGGCCTTAAGAAAGAAGGATGATCCTGGATGGGCCAGATCTTATCAGNT
GAGTNCTTAAAGGGGAACAAGCACCCTTCCTGACAAAAGAGAATCAAAAGCATGGAAG

Sequence 4363
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTATTACATAACATGTCTTAACCCATTTATAA
ATATAAGTTAATTTCTTTAGAAAACCAGAGGCAACTTCTCTGTTAAGGACTAGACATTTC
ACAACTTTTACAAGGTATGGTGTAAATGCTCACATTTGTTTTCAAAGATTTCAGATAGCA
TCTAAAATGAACAATATTAAGATTCCACTTCCACTGACCAGTTTATTAAGGAAAGGGGAA
AGCATTTAAATCCTGGTCAGCATATTAAATTATTAACTTAAAATCCAGCAGTTTTATCAT
ATTTCAGTGATTCGAGTAAAATTTATAGTTNCCAAAAATGCAAATCAAGTAGCAGTACAA
TAATATTAGGGGACTTTGATACCCCACTTTCAACAATGGACAGATTATCTAGACAGAAAA
CAATAAGGAAACATTGGACTTGAACTTCTGTTTAGACCAAGCCGGACCAGACNGGACATA
TAAAGGAAGATTCTATCAAAACAGCATCAGCATACACATTTTTCTTAAGGTGGCACGTGG
AACATTCTCCATGATAGAATCATATCNTTAGATGATGATACCAGGTGATAACNAATTTAA
GAAGAAAGGAAGTCANTTTCAAGTATTTTTTCCTTCCAGGGGGGNTAAAACNNGGAAATN
AATCNCAGGAGGAATTTTGGGAAATAAATTGGNGGNAATTTAAACCNACCGGGGCAAAAA
AAAAATTGGAAATT

Sequence 4364
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACC
TAGCTTTTATTCATTTTATTATTCATCTTTATTGCTTTCATTGCACATGCTGTTAACTTC
TTATGAACTCTTTGTTCTAATAAATAAGCATATCCAGGTTTTTCATAAATAAATGAGGAG
TCTATAAATTCTTACTAGTTTTAATAGAAACATTGCCACTAAAATGGTGTATTCTAGCTG
TGTGAGCTTTTGGAAAATGTTTTCATTTCCTTTATGTTTGAATGTTCCTTCCAGGTCTTT
GAAAATATACATTCTGAGTTGAAAAGCTTTATAATAGGTAAAACTCATTAACCCATATAC
TTTCCATGCTGGGCACAGCAGGTGTGGTAGGTAGAAATATAAAGATGACTCCCAAGATTT
TTGCACCCTGGCATACACATATGCTTTTCCAG

Sequence 4365
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTGTTTTTTTTGTTTTTTTGTTTTTGTC
AGACAAGGACTTCAGGGGGCTCATAGAGCAGAGATGTCACTGTAGAAGAAGCAGGCTGCC
ATATCATTCTCTCCTCATCCAGCTCCAAATAGTAACATAGCCTATGGGGACTGACTGACT

TABLE 1A
255/599

TTAGAACAGAGCATGAAGGAATTCATGCCTAAAGTTATTGTTGAAAACAGCAGAGATTAT
AGTAGTGAACATTAGAGAATTACATATTANTAGCAGCTAGAAAGAAAAAAGACCAGCCAG
ACATTTCAGAGAGAGACCTGTGGAAAGAGT

Sequence 4366

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTCTGGATTAT
ATCTAAATTTAATATTGAANACAGCACTTAGCATTTCTCTGGCCTAATCTTATTTTCCAT
GATAAATGTGTGCATTTGCCTCAATTACCTTAGGAATTACTAGAGATTGCTTCAAAGTTT
TTTCCTGCACTTTAATGTTCTGCCTTCTTTTGCTCATTATTGNGATCACATACAATTTTG
TAGCTCTATTGCTTGGAGAGATTTCACAAAAAAAAATTTTAATAAATGTCATGTGCAATAT
ATTTGGCATGAATTGCCTNATGAATTTGAAATTCCANAA

Sequence 4367

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTATTGTGTTCCAGGAATCCTTCTTGGCACT
GGGAATACAGAGGTGATGGGCAGGAAAATTCCCTGATTTTATAGAGCTTAAATTCTTGTA
GGAGAGACAGACAATAACAGTAAGTAAATGCTAGACCTTTATAATTAATAATAAATGTTG
TTTGCAGTGAAGAAAACTGAGAGAGAGGGTTAACATAGATCAAATATTAGAGAAAATTTT
ATTGAGGAGGGGACATTTCAGTTAAGACAGGAATTCTAAAAGGGAGCAACTAAAAAGATG
TTGGGATACACTTTTATATGGCTGCATA

Sequence 4368

CCCTTTCGAGCGGCCCGCCCGGCAGGTACGCGGGTGAATGAAGCCTTAGCAAGTCTGTCC
AGAGCTCCCCTGGTGCCGCCTGGCATGCTGCTGATAGTTTGAATGTCTTCACAAGAAATG
GTATCAGAAACCTCCTGTCATATCAGCATGGGTCTCTTGCTTCCTGCAGGAAGGGCGATA
TCCTGGGAGGCACAGAGGTGGAGCCCGAGAGACGCAGTGTTCCAGCGCTGCTCGGCTCAG
GACTGGGTCTTTTCTTCCGTATCCTCAAGCAGCTTCTTTGACTTACTACTTCTTTTTGTT
TGTTTTTTTCTTCATTGGGCTTTAAGCGTTGCTTCTCTTTAGTGTATGTGTGACTGAAGC
CAAACACAACATTGCTTTCCCTTTGCCTGCAAATAATCTTGTTGCCCAAGCCCATCTCTG
CCATTTTCAAGTGACAGCTGGCTGGCCAATGAGCCTGAGCACTGGGAATGCCCAGCAGGG
CACATCTAGGGGGCTGCTTTATATTTTGGAGCTAGCAGGTCTCTTTTCTANGGCTTTCCA
GGAAAGAATTANAATTAAAACATTGGATGGATTTTGGGTGTTCATTTCTTTTTTCCATCA
CTGGGCCTTTATTTTCTTGGGGCTTCANTTAAAAGCNGAAAACNGATTATGGTNGAAACA
TTTATAGCATGCTTTCCAAGAANTTAAAGATTTTTATTAATTTT

Sequence 4369

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGGTGGGGACGGAGGAGCTAGGGACTAACT
GTTGCTCTTGGTGGGCTTGGCAGGGACTAGGCTGAAGATGTGTCTTCTCCCCGCCACCTA
CTTGTATTGAACACCCACANTTCTTCCCTTAACCAGCCTGGGGGTTTTGTTGAAGGGAAN
TATTGAAAAAAAGAAGCCCCTAATTTTCGNATNAGCCNTAAGNAAAGNGGGNAAATTAAT
TGGAAATAGNGTTANGGAAAAGCTNGAACCTTTNCCANAGGGGNTCCAACCGGAAGGGGT
TTCTCCCCCTTCNCCCAACCACTTCCTTGTTTCCACCAAGNGGCCTTTTCCTTTTGGACC
ATAACCGGTTAAGTTTTTGGGGAAGGCCNTAATTTTTTCCTTTTCCNCCCCCCCCAAGTC
CCAAAAAAGGNCCCCATGGAAAGNAAGNCCTTTTTTGGTTCNCCCCCGGGGGCNCCTTNC
CCTTGGGGGAACCCAACCAATTAAGGGGGCCCCCAATTTTTAATTCCCCCTTGGTTNAAT
TTTCCCCCTTTTTTGGGGGCCTTT

Sequence 4370

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGAGATTTCTCAGAGCTCTCTTATCAAGAG
TAAGGAGTGAGATTGCANAAGGGGCAGTAATGTCAATACCAAGTTATTGGAAACTACTTA
ACCAGCCACTGCATTACATACTGGAGCCCGTCTAGGACACTTGCCCTTGGAAATGGTGGA
AAGACTTTGTTTTATTTCTATTTCATCAACAGAACTTTTGTAGCATTGAATCTAAGCAAA
GGATAACATCATATTATAATGGAAAGTTATTTTTAACTACAACTGTTATTGNTAAATTTA
GAAGAAAATATTGTCTTTGAAGTTTCAGTCCAAAACTCTAAGGAGAACAAGGTTTTTACT
GCCATCGGTAATCCTGTGAGAAATTTGACACTCCAGATCTTATTTGAGACAGATAAGTCT
ATGATAAATTTATGTATGAGACTTAAAATATTCTTGGATATTCTCAGGTTGGTCTCACAA
ATTCTGCATAGATTAAGTTGNTTTTTTTTTTTTATGAGAACCCTTTCTTTATCAAAAAGG

TABLE 1A
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ATTGGA
Sequence 4371
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGCTTACAACAGAATCTACAAGGACAACAAC
TCACCGTGTTTTTCAATTCAGATTTTTAAGTTATGAATTCAAATCTACTAAATAAATATC
AGAAACAAACAAAAACAGATAAAGCTATAGCTCACTGCATTTTAGAACCTGAGTGATGTC
ATGGTTCTCTAGAGCTTTCATTCCACAGGAGAGTTCTTGTCTCTAGGGCCTCGCACACTA
TGCACAGGTGAAGGGACGAAGTGTAGCCCCACAGGGTAGAATTCATGATCAGAGGACAGG
GAAATACTGNTTTATTCATTNNT
Sequence 4372
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTGAATTTANAAG
TTTCTTACAAGCAGTAAAAAGGTCCAAAATGCTTTATAGGTAGGTTTCTACATAAATTTC
ATAGTTTACATTATGGCATAAGGGCAAAAAACTTCTCATAAAAGATATTAGGTAAGTAAG
GCTACCATCAGTTAAATCTGCTTCTACACACATTAACTTACTTATCTTCTCTCACCTGAA
GCACATTNTTGCAACTCACGCAACAGGGATTTACTTTCTTCCTTTTAAATTTTCTACCTT
TAAGNTTTTCTTTTTTTTTTTCTTACCTTTCAAATTTTTAAGGTNAGCCCCTGGATTTTT
ACCAATT
Sequence 4373
CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATCATGTGGATAGATGTGCATTTGTGGGTA
TCTGTGAATACAAATACACAATTTTCAGATAGAAGTAGTATAAGAAAAAGAAATCAAACA
AAGTCAAACATTTTAAGTGTAGCTCTTGGTGCACTTTAAAAAAATTATTAAATTGAAGCT
GTAGTTTATTCTCATCATTGTCATCCTATATTAGTGATTTTCTTTAGCTTTTGAAATTAA
ATTCATAATATTACAATTCTGAATTCCTATGTATGTATATGTTAAGAATCCTTTAATGGG
ACTGACTTTCATATGTGTGTGGCTGCATTCTGAAATAGTTGTCTAGGTGATACATAAAGC
AGTGAGTGCTATTTGTAAGATATATTTATATTTAAAGTCTTCATACAGTTATTAACTAGC
TCCAATATTACTGAAATGATTTCTCCAAATATCCTATATTNAATTATCATGCTGGCAAAA
TNTATTATAACTTTGGG
Sequence 4374
CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTCAAAATGCTGAAGTTTCCTGTGAGGGTCT
ACAACCATACCACCGTATGAATAATCTCAATCACAGCATTTTAGGGCTGGAAAGACCGTT
CTCCATCCAACCTCTCATTTCAGATGAGCGGAGACTCAAATCTCTCACAGGGTTCCATAG
CTAGTTGGAACCAGAAATCCAGCAGAAATACTGTAAGCAAGCTTGTCCAAGATGTGGGTC
CAGGACAGCTTTGAATGTGGCTCAACACAAATTCACAAACTTTCTTAAAACGCTATGAGA
TTTTTTTTGCAATTTTTTTTTTTTAGCTCATCAGCTATCGTTAGTGTCCGTGTATTTTAC
GTGTGGCCCAAGACAGTTCTTCTTGTTCCAGTGTGGCCCAAGGAAAGCCAAAAGATTGGA
CACTCCTGGAGGTGCCAGCACAGTATCTAACACTACCTCAATACTT
Sequence 4375
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGCAGTCAACCCTAAACAGTGGACTCAACT
TCAAAGACGTTCTCAAGGAGAAGGCAGACCTGGGGGAGGACGAGGAAGAAACGAACGTGA
TAGTTCTCAGCTACCCCCAGTACCTCGGCCGCGCCACGCTAAGGG
Sequence 4376
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGCCAGCCAACCTGACCTGGAATGCGGATTTT
CAAGGGATCTCTTTATTCAGTGGTGTCAGGACCCTAAAAACTCAATCATTCTAACCTACA
GAACTACTCCTGGGACTTTAGCACGTTTCCTAATTGATAATCCTTCTGAAAAAATTACAG
AAATAGAGTTGAGGAAACGTGTGAAGCTTGAAGGGAAAGAACTTGAAGAATACTTGGAAA
AAGAGAAACTAAAGAAAGAAGCTGCCAAAAAGCTTGAGCAGTCAAAAGAGGCAGATATAG
ATTCCAGTGATGAGAGTGATATTGAGGAAGATATTGACCAGCCATCAGCTCATAAGACGA
AGCATGACTTGATGATGAAAGGTGAAGGCAGTCCGTAAAGGAAGTTTTTTCAAACAGGCA
AAAAAGTCCTATCCTATGTTTCCTGCCCCAAAAAGAAAGAATTAAA
Sequence 4377
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAACCTGGAAGATTGGAGATCTCTCTC
TAATCCCTACCCCGCAGCTGGTTCGGTGTGAGTTTATAGAAACCTTGGGGTCTGAGTTTA

TABLE 1A
257/599

TGTTAAAAAAAAAANNNNNNANANNNAGGTTGAATAAATAGATCAGTGATATCCAGACCC
TGGGATTTCGTGGCTCAATTAAAAACTGTGGGGCTACCATACATAGTATCTGACTGCTTA
TTTTGTCAAGTAAAGACATATACAGGCATACCTTGTTTTTTTTGCATTTCACTTTGTTGT
ACATATCAGTATGATTAACGGTTCAGTGTTCATTTTCAGGAATCTGATTGGATAACTGTC
GTTTCATTTGTTGAAACATATAATTCAAAA

Sequence 4378

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNCAC
AGCANTCAAAANAACCACAANGGAGCAGTAGTTTNTAAGCTTCCATGTAGGNGAANACAA
AAATTTTTATAAATTTCATGAATACTTATATCCCAACTGTTCAAAATNTCAANATNTTTA
ANAAAACTTGTAGGACTACAGTTAACTATTCTTTCCTCCAAATTTTTNTTTANANCCAGA
GAGNCCAAAAATAAAAAANTTAAAAAATTNCCATNGNTCCTATNTAAATCATAANAATAA
AANNNGGCCAAGANAANTTTTTAAGGACCCCCTNTTNNTCCNAAGCCAAGAAATTTTNCC
CACATTGGGCATTATCAATAATGAGAACNTTCNTGANATCCTATNANCTTGNGNGGCCCT
GTCTCATAAANACAGTAAAGCCACACAAATAAGGGTTTCCACTCCCTGGGCCTGAGCTNT
GAAACCCAGCCAANACANAATCCNAAACAGCCANAGAGCTTCNTTTCTGANGGCAGNTGA
ANTGAACATACNTTTTTTTCCCGGNGTACAAAAANGTAAAGCCCNTGAANTTATTTTTTC
CCCCCAAANNTTTTGGGTGTTAAAACTTTTAAAAAAAA

Sequence 4379

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC
CATATTGTGTATATCATCTGGGATATTTTAAAGGACAATTTATCTACCTATTAAGTGTCA
CTGGGTTCTAAACAATGAAACTTGTTATCTGGATAGCAAAAAACACTAAGTTGTAAAGCC
ACAAGCTTCAATTACTTTAAAAAAATGAAAAAGCCAGTGTAAAAATTCACACTTTGAAAG
AAAAAAGTTCACAGTGATACCTGGGAGCATCACTTGCTCTGTTTTAGGATTTCCCTTAGG
AAGTGGCAAGCGTCTAAAACCTCATTTAAAAACAAAATGAGCTAAGATGCTGTCTTTCTC
TGCAGTTTCTGT

Sequence 4380

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTTATCTAAATGG
GAGATTTAGTCCTGGTGCCTGAATTTGAGGGTCTCTCACACTGCTCATCTCAACAATCAA
TTTTTACTGCTGTANAANATAATAATGGTAATAACACTATAAAAAAAAACTACCATGACC
TATAAGTTATTAGTCTTTTAAAAATAACTGTAGTGTATNCAGCTTCTTCATTTCCTGAAG
TAGAANANAAGCTGATAGTTGGAGCCTCTGAAGCTGTTCATATATCTCCTGAATGCATGC
AAGAGGTTGATTTGCTCACAAAGGA

Sequence 4381

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGGGGGCAGAGAAGAAGAGTGCAGCATCTAT
TGCCTGTTTCTTGGCAGCCAATGGTGCTGACCTGAGCATTCGAAATAAGAAGGGTCAATC
GCCACTTGATCTCTGTCCTGATCCGAATCTCTGCAAAGCACTGGCAAAGTGTCATAAGGA
AAAAGTCAGTGGTCAAGTGGGTTCTCGGAGTCCTTCTATGATTAGTAATGATTCTGAAAC
CTTAAAAGAGTGTATGGTGTGCTCAGATATGAAGAGAGATACTCTTTTTGGTCCATGTGG
ACATATTGCTACCTGTTCTTTATGTTCTCCACNTGTCAANAAATGCCTCATCTGTAAANA
ACAAGTTCAATCCANGACAAAAATTGAAAAATGTGTGGTATGCTCTTACAAAAAANCAAC
TNTTCTTTTTTCAACCCTTTTGCCACATTTTTTCTTNTAAAGACTGTACTAACCTTATTA
AAAAATTTTTTCCANTNTCCAACCANTANTTTAACCAAAAANNCCTTTCATTATTTNCTT
TNNAAGGAAAAATTCANAAAATTCCCCTTATTATNTNCAAATTNNAATTTTCCANTTTTC
CAAANGNCCAGNTTNTTCCCATTTCATTCAAATTTCCAAAATTTCACAC

Sequence 4382

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTGGTAAAAAATAT
TCTTCTTGGTAACTTGTTATTTTTGAACCAGTTTATTTCCCAGAAAATGCCTTTTTCTTT
TGTGCTTCTTAGAAGGAGAAATTGCTACACATCGGTAGGTATGCGTAGATCTGCATCAAA
CTTTATTCAGATTATCTCAGGCTAAACAACTTTCCTTTATCCTACTTCTCCTTAATTTTC
CTTCAATTGTCTTTAATTTTGGGCTAAAATGTTTAAGTATAGAAGGATCTAGATACATTT
TTGACAATGTGAACTAAAATCAAACCTAAAATTTCAAGCTTGTAGTGACACATCAAGACC

TABLE 1A
258/599

AAATATAATTTAACCCACTGAAGAAAGTGACCTGACCTCAAAGATTTTGGCCTAATTTCG
AGTGACCTGGCCTGCAAAAAAGCATGACTTTAAATACT
Sequence 4383
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTATATTATTCAAATAAGAAATCAAAAG
AGAAATTGGAAAGTTCATTGAGCTGAAAATGAAAACACGATTATCAAGAATCAGGGAGTT
GCAGCTAATGTATGCTTGGAGGCAAATTTAAGCACTAAGATCCTATATTATAACAAAAAA
GAAAGGTCTCAAATCAGTGACCTGAGTTTTCACCTTCAGAAACTGGAAAGAGAAGAGCAA
ATTAAACACAATGTAAGCAGATAAAGAAAATAATAAAAAGAACAGAAATCAATGAAAGAA
AAAAGGGAAAATTATAAGAAAAATCCAAGAAAGTAAATGCTAATCATTTTAAACAATCAA
TTAAATTGTTAGACTTCTAGTCAGCTGATCAAANNANAAAAAAANANNNNNNNNNGGTCC
TCCAAAGATTCAGGTTTACTCACGTCATCCAGCAGAGAATGGAAAGTCAAATTTCCTGAA
TTGCTATGTGTCTGGGTT
Sequence 4384
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGAAATATAGACAAGA
CTTAACAGTGCATACTCTTAACTGGGACACATGCTGCCTCTTAACTGTGAGCAAAGGGNC
AATTTTCCGACATCTAAAATAAGGACTGAAGTTTTCACCAAAAGTAAGAATTAATGAGAT
GGCTAGGGTAAGACTGAAACTNCAAGATTATTCACTCAATATCCATCCTCCCTTTATCTT
GGCAATAGAACCTATATTTTTCAAAAGTTTTCCCTACGGATAGAAGGTGGTCAGAAGAGG
ATGTAAGCAAGAATTCACTTGGGTANGGANTTCCTGGAAGAAGGCCCTTTTGAAACTCTT
TGGCTTTCATTCTGGCGGGGAAGTCAAACTTCATGGGCTGGAGCAACCACAGCCATTTTG
TACC
Sequence 4385
CCCTTAGCGTGGTCGCGGCCGAGGTACAATAATTTTATCCATTTTATATATTAGATATCT
GAGGCTTCCAGAAATAAGTGATTTGCTCAAAATCAGCACTCAAACCAAGACTCCGTGGCC
CTAAAGCCCAGGCTCTTGCAATATAAGTATCATGGTTATTGAAAGCACGGAGAGTCATGT
TTAAGTTAGGTTTATGATTTCCAGAAAATATTGGATTTAAATGATTCCTTCAATGAGGGG
GCAGGCATGAGATAGA
Sequence 4386
CCCTTTCGAGCGGCCGCCCGGGCAGGTACACTAATTCCAAGCAGCAAAGGAACAGGGCAG
CACCCAGTGTAACTGATAAGGTAATTCATGCCACACAAGACGCATTAGGTGAACCTGGTG
GTGCCCTCTGCCTGTAGGGGAACAAGAGAAAACTATCCCCAGAATCAGCCACCTCAGCCC
CTAGTATTTTTTCTATCAATGCCTTGTATCAGCCTCAAAGCAGCCTGTTCAAGTTAACTC
CCTGTTGAACTCCAGGGCCTATACCTCTCTTGGCTGAATAGATATAAGAACATCCTTGCC
TGATGGGTTCATATTCCTCTTCAATTCTGCTGTCTAAAAGAA
Sequence 4387
NCCTTACCGTGGCCGCGGCCGAGGTACNACTAAAGGCAACTGGCATGGACTCAAATATTT
TGGGGAAGAAAAAGACTAAAAGTTCTAAGGAAGAAAATTGCGGACCTTTGATAGTTTTGA
AATAGTTNTNAAAAAGGANNAGTTNGTTANAAAAACCTTGNTTTNAGGGACAGNTTTTTG
AATNTAATTGGGAACCTAATTTNAGGAATTGAAATTACCTTCTGGGGGTTTCCTNGAANT
AAANTTGGGNTTANTTAAACGGGGGAGGCAAANGTTAAAAAAGGTTAATTNTTTTTAAGG
GGGGGATTTCCCCAAAAANTTAAATTTTAACCGGTCCCCTTTGACCAAGATCCTTTTTTT
NTTTTCCNCCAAAAAAATTANAGTTCTTCCAATTTGNNGGNGGNGNGNAAAGNGGG
Sequence 4388
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGCTTTGTCACATAACGTGACTGAAAATGA
CTCTTGCAGACCTCACTATTTTATTTTCAACTCACAGGTAACTAAATATGCTTATTTTCT
CAAAAGAAGAGTTTAGGGAAGAAAAGAGGGAAGCTATTCACTCCCAGGGTAAAGGGAGGA
GGATAATANGTGCTTTATAGAAAACATGTGATTAGCTAATTATTGAGGACTGTGAAGAAA
GTTTTGGTTTACATCTGAAAATAGATTGAGAATTGAGATAATCGTATGGTGCTAATAATT
GACACATTCAGAAGTGAGGATATTGATCATACTTNATGAACAGAATTAGAAGGAATGGGA
AGCTAATTCACAAAGGAAACTTAGGCTTTGATTCTAAGATTNGTTTACATAAAATATATG
CTGCNNGAAATGTGACAGCATGAGTTCGNTACATCANAATTAAGTANGATTTTTTACGTN

TABLE 1A
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TTCTTNCAGACTGTCTATGCCTGTGCCCAANTCTGAATCCTTTT
Sequence 4389
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGTCCAAAGCCACAGGATGAAATTATGCAGAA
GTCTATCTTGAAAAGGTCCTGATTACTTTCACTAAAATTCTACCTATTAGAAAGATGACA
ATATCCCAAAATAATAAAAGCTCAGAACTAAAACTTTAGGAAGTATAGGAGAAAGGAAGA
ATGGGTAGGTAGACTGGGGTAAAGACGGAGGAGAGGATAGTTTAGTTTATTACCTAACAG
AAAGGCTATTAAAATGGACCGAGTTGTAGTCCTATCCCTGACATTTTATGTCCTTGGTTA
ATGTGCTTAGCCATCTTGTGCTTCAAGAAATGTCCTCCTATCTGTTCAAACCTGTAATTT
TTGAAGGTTTAAACCATGATTTTTCTGATAATCTTCAAACTGCTCACATCTCCTTTGTTA
GAACTAGTATCTTANAAATGCNAAAAACGATTAGNTTTTGAAATCACATTGCTCCTAAAA
AGAACTAAAATTTTTTNGANTTATCTTCGNNTTACTATTCCCTTTTCGCTTTTAT
Sequence 4390
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACATTCCTTATGAGG
GCTTTCTTCCTCAGTGTTCTCTTTAGAGGGCTATTGCTACTGGACTTTCTGCAATGTCTT
TGGGTGTGCCCTCAGAGCCTGCAACAAGTGTATTTGGATATACTCTATTTGTAAAGTTTA
GGCCTCTAAGAAGGCCACAATGAAGCAACTAAAAATCTGATGATTAAGGGAGTCAATCAA
GCTGATGCCATTTTTAGTTTAAAAATGAAGCAGAGCTCTAAACTCATAGATGGGTTTTCT
TACTGGGAAGAAGATTGGCTCTCTGAAGACAGCTTCCAATGAGGAATGTATTGAACAATG
GCAGCACTGTCTGGCCACCCACAAACTGTTACAGATGACCCAGTTACACTGTTGCATAGG
AACCCAAGTGGAAAGAAGACAGAGTCCATGTCTGTCCATGGCTTCAGCTACAGAAAGGAT
AGTATGGGAACATTACAANGGGGG
Sequence 4391
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATTATATGCAAGGTTACAAAAAAAAAATCA
ATGGTTAATGATTTTTTAGCTCAACCAAGCTAAAAGATGTGAACAAGAAATTGAACTCAA
AACAACTTAAGACACAAAGCTCTTGTTACTGATAATGTCTAATAATATTCATCAATTTAC
CATATCTTGTTCTTATATTAAAATGTTCTATCATTTTCCTAATTATTTTAAAGTCGATTA
CAAAAATATATATATATATTCTTGTAGTGCCAGAAAATTGAATACATTAATAAATGGGGT
AGAATAGATGAATCTCCCATGAAGAAGAATTCCAAATAATTTATGAACTCTGCCCTCAAG
GATATGGAGCAGAACTTCCTACTTCTCTAGTGTGAGCTGAATAGTGACTTCCTTCCAAAA
ATTACATATGGGAAAGGGGGAAA
Sequence 4392
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGATTGTCTCAGTTATACAAGTGGCAAGAAG
AGGACAGTGGACCAGCTCCTGGGACCTTCCAAAACATTGGCTTTGACATCTGCCAAGATG
ATGATTCCATCCACCTGGAGTCCATCTATAGTAATTTCCAGCCCTCCCTGAGACACATAG
ACCCTGAAACAAAGATCCGAATTCAGAGGCCTCAGGTAATGACGACATCATTTTAAGGCA
TGGAGCTGANAAGTCTGGGAGTGAGGAGATCCCAGTCCGGCTAAGCTTGGTGGAGCATTT
TCCCATTGAGAGCCTTCCATGGGAAACTCAAT
Sequence 4393
CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAGTCAGGAGTTAACCTGTGTTCAATGCTTC
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TTGGAGTGGGAGTAAGGGGGTGATTTGTTCTGATCTCAGGAAGGAAAAGTGAGCAGGATC
TGGATAGCTCCAAGGAGCTCAAAAGCCTATGTGTGAGCACCATGGCTGGGGACGGCTCAA
GGGTAAAGGCCACTTCGGGGCACAATCCAATGGACACCAAAAGGATAGGTAAGGAACACG
AGCTTGCTTCCTTCATAGATTAGCCTGGGCCCAAGCCCAGCCTACTTTGACAGTCTTTTA
TTCTATTCATAAAGGAGGTCTTATGCAGGAAAACTAAGACTCTTATCTAGCAGCTTTCTT
TTCTTAAGCTAAGAAAAAGGAATGTCATAAAAAAGGTGAAACATTACTTTTGGTGAGCTC
TGCTATTTTTTTTTTTTA
Sequence 4394
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCCTCTTCCTTTCTCCGCCATCGTGGNGT
GTTCTTGACTCCGCTGCTCGCCATGTCTTCTCACAAGACTTTCAGGATTAAGCGATTCCT
GGCCAAGAAACAAAAGCAAAATCGTCCCATTCCCCAGTGGATTCGGATGAAAACTGGAAA

TABLE 1A

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TAAAATCAGGTACAAGAACCAGTTGGCAGTATGTAAATTCAGAGCTTTGTGGAACAGAGT
TTCAAAGTAAGGCTGCCGTCCGAAGGCACGAAGTGTCCATAGTCCTTTTAAGCTTGTAAC
AAGATGAGTGAAAATTGGACTCCTGCCTTCAGATTCCAGTTGTTTGAGTTGCTGTGAGGT
TTGGAGGAAATATGCTCTCAACATAATAAAAGCCACTATCACTGGCACTGTTGCAACAAA
NATGTAGGGTTGTAAAACTGCGACAACTGCTATNGCTCCANTCACAATTAATAACA

Sequence 4395

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGGTTTTACAGGGTATACAACGTCCAATAATT
TCCCTTCATCAACATGCCATGATTTATCAGCCTTGAAAAGTATCTCAAAGGCTTAGAAAA
CTTTATTCATTTATTCATTCATTCATTTATTCTGTGGATGATCATTGAAAGCCTATTGCA
TGCCAAGAAATATACTAGAAATAAAGGATCATCAAAATAGTCATATAATCCCTCTTCCCA
GGCCAGAAAGCTTACAGTTTTACATCCGGATGAGAATAGAAGGAATCAACTCATTTAGCA
GATGGAGAAGAGGCCCAGAAAAATTACATAATAATCGATGTTACTATTGCATTCTTCATG
ACCTACCACACCTTGAATTTTTCCTTTTCTCCTAACAACATAATTTTCCACCATATAACC
TACAGTATTGGGAGATTTCTGGGCATACAAGACTTCACTAACTCATATCTTAGCTGGTAT
AGGGAAT

Sequence 4396

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTATTTTGAATGGTTTCCCACTTTCAAATGG
GAAAACCGACTGTCTTTCTTCCCTTCCCCAGTTATTATCCAGCTTTGTATTGCAAACAAT
GACTCTCCTGTTGTTCTCATTGAAGCGTGGGTTAAAGTGGAAGGCAACATCATTCCCTCT
TTGGAAATCTAAAGCAATTCTGTTTGCATTGGGCTTCACCGTGCCCAGAATTGTTATCAG
CATGCGAGGCACCACTCCCCCAGGCAAAGGCAGGTTATAAGGCACAATCAGTGGCCCCCC
GCGTACCCAGCACCACCTAGGAAGTATTTTTGCCACAAAATCAGACCTCCAGATCTAACT
ACCATTTTATAGGAAAGATAAGTTCAGAGAACCATGTCAAATGACACCTCGGGATTTCAA
CCAGCAACGTTCAAATGTGCTAAACTCTGTAGATGGAAAGAGACTTACAGACATTTCAAA
TAAATGCAATATATGGGCCTTGCTTGAATCTAATACAAACAATTCAACTACCAAAACAGC
CAAACATTTGGTGGGACAATGGGGAGATGCTTGGAATTCCGATTGGTTANTTTAAGGGTG
TTTAGAAATATTTATNGGCCAAATGGATGTAATGCTCCGGAAATTGCTTTAAAATGAATC
CAGGACTTTTTTTTTTTTTT

Sequence 4397

GGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGTCAGCTATTT
TATAGACTATCCCTCAATTGGGATTTGTCTGATGTTTTTCTTATAACTATACTGGGATTA
TAGGTTTGGGAGGGGAAAACTACAGAGATAAAGCACCTCTTTCATATCAAGGGTACACTC
TATGATGGTCACGTNACNNTNAANTCACCTGGCAGACNTANTTCTCATAATGTATCTCCT
TTGTCAAGCANCACATGACTGTATAATATTTTACCTAAGAAAGAATTCTTCGGTGAAAAT
ACCAATGCTGTAGAATTACTGTANTCAATTTTTAGGTTCAA

Sequence 4398

GCATTGCTTTTTACATTACAATTCCAGATCAATATAAGCACCTGGAGAAGAACCCTGACA
CATGTAGCCCAAGCTAAAGAAGTAGTATTTTTCATTAAGATACTATCATAAAATAAAGTG
ATTACAGCTACTCCACATTTTAAAAGCAACATGTTTTTATAAGAAAATTGTTATAAATGA
AAAACGTGACTTCTTGAAGACAGTTTTGAATGTCTAAAAATGTTGTTATCACTACTGAGA
GGAAACTTGCCTATGAAAAATATTATAATGAGTTTGTGGAAAAAAGTTAACAGGTTAAAT
ATTTTAAGCCATTTAACTATAGCATAATATTAGTCATCTGAGCACTTTCAGTATCACTCT
TATTTTATTAAATTTATCCCATTTATTAATAGAAACTAGGGCCCTGATTGGCCAGGTTCT
GTTATTTACTAATGGGGTCAAG

Sequence 4399

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCCTAGTAACATAGTCTGTTGGGTAATACT
GCCGCTGGTGGAACTGGAAGCCTGGGAACGGCTTATTAACTGTGCAGGTGTAGGAGAAGT
GGAGAGGTTGATAGACGTTTGGGACATACTTGACTGCTGTGTGACACTTCCTGTGGGAGA
TGTAGATGGTCTTCCACTGGACAAACTTGCCTGAACAGCAGCAAGGCTCTGAAGCTGGGA
GCTGCTTAAATGCTGCTGCTGAAGAGCTGCAGTATGCAGCATCAAGTGCTGTTGTTGGGC
TGC

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Sequence 4400
CCCTTAGCGTGGTCGCGGCCCGAGGTACAATTTTGCCTAGGGCCAGCTTGAGATATAACT
GTTTGTATAAGGTTTGTATAAGGTTGCAGTGAGCCGAGATCATGCAGAGAACCCTAAATG
CAGAGTAATTATCACTTATAGACATTCATCATTACTATATCAACTCTGTGACGAGGGGAA
TAATGTGCTATTTACATTAAATGTGCAGTTTATAAATCAAAAAATGGATTTCAGTAGAGT
AAAGTCGGGTAGAATGAGAGATATATTTACCAAAAAATCAAAAACAAAAAAGAGTCCTAT
TCAGCCCTGGAGTCTAGGTTCCAATCATTTCTAGGATACAGATATTCAATATACAATATA
GTTCTTGCTGTGCTAAAAGAATAGAATTATTGGAGACGACCAGTATGTATTGNTTTTCAT
AATATGACCTCTGCCAGAAAAATTGTGATCTTGCAAGTTTTAGTACCTGCCCGGGCGGCC
GCTCGAAAGGG
Sequence 4401
CCCTTCGAGCGGCCGCCCGGGCAGGTACAATCATGCACTGGGGTAAAGAAGATTCATCTG
CTCTTAGCTACCTACCATGCCAACACTCCTGAGAAAGCTCACAGAGGCCCATGATGCCCA
CCTGGATCTGAGGACCTAGAAAGCCACAACAGGCAACCATAATCTGGGTCTTCCCTCAGC
CAACTCCCCTGCATAAAGTGAATGAATGAAAAACCCATCTTATATTAATCAGAGTTCTCT
AGAGAAAAAGAACCAATCAGATGTGTATATATAGAAAGAGAGAATTATTTTAGGGAATTA
GCTCACATCATTATGCAGGCTGGTCAATCAAAAATCTGTGGAGTGGGCTAGCAGGCTNGA
GACCCAGGGAAAGGCTAAATTGCAGTTTANATCAGAAGGTCATCTACTGGCAGAATTCCC
TCATCTTCCAGGAAGGTGGATCTTTTTC
Sequence 4402
CCTTTCGAGCGGCCCGCCGGGCAGGTCCTGCTTTGCATTTCATTTGCTCTGTNTTTCAGA
ACTACACTTTACGACATGAGAAAAACTGGTATAAGCAGAATGTTCCTACATTTAGTTAAT
ATCAATTCTAATTTAATACATAAATGACTTGTTCAAATCTTACTTAGACTCCATGTAAGG
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CACACTACANCAATTGGAAGCTACTTATCATATTTCCTAAGATAAAGGTTTGTTGGATCC
TAATATGGGAAGGATTTAAAAGAGATTTAAAAAGGTAGGACAGCTNAATTTAAAATCCCA
AAATTCTCAACCAAGTTTGATCTCATTNGGCAGATGGTNGATGATCTTGAATGACTGTGA
GCCTAGAAAGGTNGAAAGTAATTTCTTTATTGGAGAAAATAAAGACCTTGGNTCCTAAGG
AAAAAGGGCTA
Sequence 4403
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGAGATCAGAACCTTGAAAGTCAGTGAGGACT
AGGGGAATAGGAAGTAGTATTTGGGCTGACTTGAAGTTGAGGGGAAGGACATCTACAGTT
GAGGGAAATGGTATGGGCAGAGTCGTGGTCAGTGGTTAGGAAATGGTGTATGGTGTATAT
GGGGTAGTCCGAAGATCCACTGGGATAAAATAGAAAGCAGCAAATGTGCATCTGACAATT
TTGGAGAACCTTTGGATATCTAACTGTATAATTTATTATTCATTTATTATTATTTTTTGA
GATAGGGTCTTGCTTT
Sequence 4404
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATACTTCGGCTTTTTGTCTGAATTTATTTGG
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TCCCGAACTTTCAGAATCATTACTAATATTTTAATAAAAGTAAGTTGCCAAATTGATGCC
CCATCACTCCTGAATACTTTAGTGTGTACACCACAATGGCTGAGCACTTCCTGACGTTGC
TGGTAGTGCCTGCCATCAAGAAAGATTATGGTTCCCAGGAAGACTTCACTCAAGTGTGGA
ACACCACCATGAAAGGGCTCAAGTGCTGTGGCTTCACCAACTATACGGATTTTGAGGACT
CACCCTACTTTCAAAGAGAACAGTNCCTTTCCC
Sequence 4405
CCCTTAGCGTGGTCGCGGCCGAGGTACACTCTGCATTATACCTCTAGGCGTCATCAGAAA
TTTGTGCTTAATATTGNNCACTNACATTCCNTGAACAACGNTNCCTACTNANATCCCTAG
ACTAACAACATGAAGTCTTAGGGGTATAGTCTATAATCATTACAACACAGGAAGAAAATA
CCTGGTATTCCATTAAGCGGNATAAACATTACTTTAGCATAGTGATTGCAGCTTNCAAAT
ACACCTGACTCANATTTTGAATATTATAGTAAGCAAATTAAGTACCTGGGAAGAGTATTT
TGAAACCTTCATCAATGGAAAAGTGGTT

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Sequence 4406

CCCTTAGCGTGGTCGCGGCCGAGGTACTAACCTGCCTCCTATACCTAGCTGGTCTCCTCT
CTGTTGCTCAATGTTACCACAGCAGGCTTTCTAGAAGCACTCTGACAGTGTTACTCCCTA
ATATCCTTCAGTGACTTCAGGAACTTTCAGGAGAAAGCCAAACTCCTCTGTTTGGTGTAC
TCAGGATTATTGTTTTGTAGGCAAGGTGATTGTCTTCGTGTTTATTATTCATTTGTGGTA
AGTTCACCTTGGACTTTTTATTTTGGGTAAACATCACATACATCATCATTAATCAGGCTT
TGGGGCTCCTTTTCCCCATTATTCAATGTCTCTCTGCTCTTTTTTTAAATTATTATTATA
CTTAAATTTTAGGGTACTTNNTTTTTTNTTNNNNNNNNNNNNNNNNAATCAAAGCNCATT
TTAATCATTTANTTTTAAAAGGGG

Sequence 4407

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGGTTCTAGCATGGCATATTTTTCAC
ATATCTAGTATGAAATTATATAAGTATTCTAAATTTATATCTTGTAGCTTTATCAAAGGG
TGAAAATTATTTTGTTCATACATATTTTTGTAGCACTGACAGATTTCCATCCTAGTCACT
ACCTTCATGCATAGGTTTAGCAGTATAGTGGCGCCACTGTTTTGAATCTCATAATTTATA
CAAGTCATATTAATATATTTCCATTAAAAAATCAAGTTGTACCTCGGCCGCGACCACGCT
AAGGGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnAGCCGGAAGCATAAAGnnnnnnnnnnnnnnnnnnnnnnnnnnnNGA
nnnnnnnnnnnnnnnnnnnnnnnnAGCGCTCACTGCCCCGCTTTTCCAGTCGGGAAACCTN
TCGNGCCCGCCTGCATTAATGGAATCGGCCAACNCGCCGGGGAACGCCCTTTGGCTAGGC
NGGGCNNTTGTNCACTTGGTTNNNAGCTGACNTANNGNGCCCTTCGANTNNCNCGNCNNG
GGNNCAAACNGGNNTNTTTTNTTTTNTTCCCTTTTTTTCTCCCCCCCCCCNTCCTTCCCC
CCCCCCCCCCTNTCTCCCTTTTTTNCCCCCNTTTNCCTNNNCCCCCCCCCCC

Sequence 4408

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACAGTTTTAAAGAAATATGAGATTTGCAAGA
AATTTCCAGGTTTCCTTTTGGGTACTGGCAACGTGGCTCTTTTCACCCTGAAAACTGAGA
AAACTGCCAGTGCATTCACAACATACACAGCCTCTTCTAACCATGGGGGGAAAAAGGCTG
GGAGATGCGGTAGTAACAGAAAGTTGGTAGTCCTAGGAAGTTATCATTCAACAAGGGTTT
TTGCTGAAAGATAAATCAGCCCCTCTGAGGAGTTTTATGACTCAAACTGCTCTAAAGCCC
CCAAGGCCC

Sequence 4409

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCTCCATATATATTTGTTAAATATCCAC
TAGGTTCCAGGAGCTATGCCAGACACCAGGGGAGTGTGTGATGAGCAAAAGCAGTCATGC
TCCCTACCCTTGTTGAGCTTACCAAAAAAAAAAAAGAAAACAGAGACATGAAACAAGCAAT
CACAATCTGATGATGATAGTAAAGGGAACAAGCAAGGTGTCACAGGAGTGCAGCACAAGG
GAATTTTACCCAGGCCAGGGTCTTTGATGAATTGCAGAGCANGGGATAAGTGCCAGAGAA
GGGCATGATGTAGGTCAAAGACTGGACCCCTAAGAAGAACTGACTGGGGTGTTCCCTAGC
CTTGTTTCAGTGTTTGCCCTCTATTCATCATTCCTCCAANTGCTCCAAGCTTCCCGNCCA
AGACAGCTTGTNGGCAATGTACCCTGCC

Sequence 4410

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTGGCAAGAATCCAGGGCAACGTGGTTCCCT
CGCTCACGGTCCCGGAAATGTCCAGGGAAGCAGGTCTGAGCCTGCTGCTGTTAGTGCATT
CAGTCGCCTGCCTCAGTCTCTCTGTAGAGCCTGCCCGCGTACAGACTATTTAGTTGTTTG
AGAAAACAGGGGCGTTTCCTAATTTGGTCTTTATCCTGCGACAACACTTTCAGCAGACTA
GCCTCTCCTTATCTCACAGATCACAAGCACCCCTAGATAGTGTGATTCTGTCAGATAGCA
TTTATGCAAAAATCTATGAAGTTAAAAGATCGTANGAAGCCAAATGAAATGTTACCTGCC
C

Sequence 4411

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATTATATGCAAGGTTACAAAAAAAATCAA
TGGTTAATGATTTTTTAGCTCAACCAAGCTAAAAGATGTGAACAAGAAATTGAACTCAAA
ACAACTTAAGATACAAAGCTCTTGTTACTGATAATGTCTAATAATATTCATCAATTTACC

TABLE 1A
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ATATCTTGTTCTTATATTAAAATGTTCTATCATTTTCCTAATTATTTTAAAGTCGATTAC
AAAAATATATATATATATTCTTGTAGTGCCAGAAAATTGAATACATTAATAAATGGGGTA
GAATAGATGAATCTCCCATGAAGAAGAATTCCAAATAATTTATGAACTCTGCCCTCAAGG
ATATGGAGCAGAACTTCCTACTTCTCTAGTGTGAGCTGAATAGTGACTTCCTTCCAAAAA
TTACATATGGAAAGGG

Sequence 4412
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTGAGGAAGTTTCTGATCGTTACTGTTTTA
TGGATGAGAAGACTAAACCTCAGAGAAGTTTATTCCTTATCCATGGTCACACAGCTAATA
ATCAGCAGAATCAGGATACGGTCTCAGGTCTGTCTGACTCCTAAATCTGTGCTCTTAACC
AGTCTTATGTGCTGACTCAATGAAATTAGTTGGGAATAGAATGAAATTCACTCAGCTACC
CTCAGCCTTCTGGATGGTGAGCCTTCCTTCAAGGAAAACAGAACAACAAATCAAGATAGT
AACTGACATCTCTCGGGAGAATTACTTTATATTACTACAAAGTAATATAAAGTGATAAAT
CCTTATTCACATTTACTGTTTTCTCTTATTGGCTTCAAGTGTTGCATTTCCCCATAAACT
AGAGGATTAATTTAGAAACATGAAGAACCTTGTCAGCCTTTGGCCAATTCCTTTTGTTTG
TGAAGGAAACAAAAACAAAATTGGATAGGAAAAAAAAAAACCCNAAAAAAAAAAAAAGAA
AA

Sequence 4413
CCCTTNCNAGCGGCCGCCCGGGCAGGTACCTGCTTTGCATTTCATTTGCTCTGTTTTTCA
GAACTACACTTTACGACATGAGAAAAACTGGTATAAGCAGAATGTTCCTACATTTAGTTA
ATATCAATTCTAATTTAATACATAAATGACTTGTTCAAATACTTACTTAGACTCCATGTA
AGGGAGGAGAAAAGGGGAGAAAATTAGAGTGGGGGAAGATGAATCAAATCACATTTGTAG
ACCACACTACAACAATTGGGAAGCTACTTATCATATTTNCTAAGATAAAGTTTTGTCTGG
ATCCTAATATGGGGAANGGATTTAAAAGAGANTTAAAAAGGTGGACAGCTAATTTAAAAT
CCCAAAATTCTCAACCAAGTTGATCTCATTGGCAGAATGGTAGATGATCTGAATGACTGT
GAGCCTANAAAAGGTGNAAGTTATTTCTTTATTGAGAAAATAAAGACATGGTTCCTTAAN
GGAAAAGG

Sequence 4414
CCCTTAGCGTGGTCGCGGCCCGAGGTACATGCTTCTGCATAGCAAAAGCCCCCCACAATT
ACAGGTAAATAAATGCTACCCTTCCCAGCAAGGGCCAGGAAGTGCAGGAAAATATCAAGT
TGCCTGAGGATCTGAATGCAATAGAAAAAGTTCTGAAAGTCAAAGGTCTTGCAATAGAAC
ATTCAAGAGGTGAAGCCTTATGATTCATCAACTTGGGTTCACTCAGTGGTCAAACCAAAA
AAAAAAAAAAAAAAAAAAAGTACTTNNTTTTTTTTTTTT

Sequence 4415
CCCTTAGCGTGGTCGCGGCCGAGGTACATTAAACTACATGATAATTAAATATGAGAAAGG
CAAATTCTATTTCACTCGTTACGTTTGACCAAAACACGGTAAACAGCATTAGCTTGCCTT
TTGCTCTCCCATACCACCTGTGAACTCTTCATCAGCATCAGACCAAAGATCCTTATGTAA
ACTTGAAAACCGGAAGAACATTACCTTCAGAAACACAGAAATCTAAAAGCAAAACAGCTG
TTGTGTATACAAGCAATTAAAATATGAAGGCTAAACCTTCTATAAACCTACAGAATGCCA
TTTNTTAGATAGAACTTCTAACAGCCCTTACAAAATAGGAGGTCACCATAAAGTTAGGCA
ACAAGTGTCACTGCTATATGTAAGGCGGACAGGAAGATATCTTGTTTTGGAACTGAATAT
TCCTAACCTCATCCCTACAAGTATTTAAGGACACCTTTGATACTTGGCACTGCAGGAGAA
TTCAATTTGGAAAGTAGAATAA

Sequence 4416
CCCTTAGCGTGGTCGCGGCCCGAGGTACTGTCATAAATATTGTTATCTTTTCTTGCACTC
GATAAGACATTTTACACTACTGATACGGACAGAGGCTGTATCCCCTCAAAGTATTTGAAG
AAACTACAAAAGGAGAGGACAAAAGGATGTGAATTGTAGGAAGAATGGGGAGAAGGGGTC
ATTGGCAGTCATCTTGGGGACTGGCTATTGCCTCACAAAAGGATATGTGATTTGATTTTT
GCCNAANAAAAAAANGANAAAAAAAAAGGTNCCTGCCCGGGCGGCCGCTCGAAAG

Sequence 4417
CCCTTAGCGTGGTCGCGGCCGAGGTACATGATTTAGAGACACGGAGGATTAAAGACTCAA
CGACTGAAAATTTGGGGACTAACATGTAACTATGTTAAGAAAGTAATTCTTGAAAAATTC

TABLE 1A
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ACTTACCCGGGACAAAGAAATGATGTTAATAAAACATTTGTTTTCCACTTNTCACCTCCA
AAGGCTATAGAAGAAAACAAAAGTTGTATAAATACAGATTTTCTTTAAAGCAAACCAAAT
ATCCATATTACAAATCTGATATTTGCCAAACTGTCAGACAGCAATGAGTACCTGCCCGGG
CGGCCGCTCAAAGGG

Sequence 4418
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAACATGGNCATTTTTAGCCCTTTTCCTTA
GGAACCATGTCTTTATTTTCTCAATAAAGAAATTACTTTCAACTTTCTAGGCTCACAGTC
ATTCAGATCATCTACCATCTGCCAATGAGATCAACTTGGTTGAGAATTTTGGGATTTTAA
ATTAGCTGTCCTACCTTTTTAAATCTCTTTTAAATCCTTCCCATATTAGGATCCAACAAA
ACTTTATCTTAGGAAATATGATAAGTAGCTTCCAATTGTTGTAGTGTGGTCTACAAATGT
GATTTGATTCATCTTCCCCCACTCTAATTTTCTCCCCTTTTCTCCTCCCTTACATGGAGT
CTAAGTAAGTATTTGAACAAGTCATTTATGTATTAAATTAAGAACTGATATTAACTAAAT
GTAGGAACATTCTGCTTATACCAGTTTTTCTCATGTCGTAAAGTGTAGTTCTGGAAAAGC
AGAGCCAAATGAA

Sequence 4419
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCACNACAAATCNTGTACCGTATANNCTN
CACATTCTTANANATANNGTNTGTGANCTNNAAAAANTGCCAGAGGACACGTTTNTGCTC
NNCNNGNCCANTGATTATTNGCTGGNGATNGTGNCCANNGGNTCNTNCANTAACNNACNT
TCGACTCCANAGGGTNNTNCACTCGATCNNNCTNAANAGGGATATCCAGCAGNTGANCGG
TNCTNNTNNTCTNCAAGTACTCACACACTGTNGTNTAAGCTCNTNCATTTAGTNCGANCN
GTNCCTCACACNNNCTTGGGGCGATNTATGGNNTAATNTTTNNAATATANTTGNGTCCGA
NNNGATTTTTCTCTTATTCNTNTNGANACTNTATGGNTAANTACATNTNATTNGAGCGTT
NCTAGACACAANTANAGNNAATNCNTCNNAGNCTTTNNNATTGAATAGATAATNTATNGN
TAATNGGATATGNTANTANNTGATTNTNGNGTATTTTTTTNTACNNNTCANTATTTTGGT
NNCATACNAATCANTACANTTTTNCTATATTTATNATANTTTNATNTNANGTTANTNGTT
CTTNCCCCCCCCCCCCCNTNGNNCCCNNATTAGTATTTATTNNTTTTTTCCCCCCCCNCCC
NTTTTNTTTCCCCCCCCCCCCCCCCCNCCCCGNTTGTNTTTTTTTTTTTTTTTTCCTCCCCC
CCCCTCTATTTNTTTTTTTTCTCTTTTTTTTTNCCTTTTTTTTTTTTTCNCCCCCCCCNCC
CTCCCTTTTTTTTTTTTT

Sequence 4420
CCCTTAGCGTGGTCGCGGCCCGAGGTACCCACCACCACTGTATNGATGCTCATGAGCTCT
GGCATGCCATGAAAGGGAGTAGGGCACTGATGAGAAATTGCCTCATTTGAAAATACTAGC
CTCAAAGAACAAATNGGAGGAAAATTTTTCCAAGATGCCGAGAAAGCCTACTGCTTTGGC
AAATTACAAGCAAATTAAACCCTTCCCAAAGANGGACCATTTTATTTTCAAGAAGAACCC
TTCGGGGGGACCACTTTCAAGNAGGAATTACNTCTTCAATGGAAACNTTGGGTTCCAAGG
GGGGAACCCAAGAAGAAGGGGAAAGGGGATTATTAACCGGGACCCCCNTGGCCGAATNGG
GCCTGGCCTTCAAGGGNATTGGCCAAAATGGGGTTCCCCTTAATGGGGGGNAAAGGCCCC
TTGGTTCCAGGCCAAGGAAAGGAACCGGGGGGGGGNAGGNCAANCAAAAAAA

Sequence 4421
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGGCATGATCTGGGCCTATGCGGTCTTACA
ATCCCTGTATAAAACTAGACAATGAAAAACAGAAAACAAAACAAACAAACAAAAAAACAA
GAACGAAGCACCTACCACATGCCAGCTACTGAGGCTATGAAGGTATTCTCCCGCCTTAGA
AAGCCCAGGATTAATGCAGGATTGCGACATTTAAACAGAACATTTCCATACAGCATGAGT
ATAAATGACTTTCCCAAGTTTACACTGAGAGTAACTGACACAGCAACCCCAGCAAAGTCT
GAGCTGAGTCCTGAATAATTGTATAAAAAGGGGAGAGAAACAGAGTGAAGAAAGGGTTTC
CCAGACTCTGTCCCAGGAAAGAAAATGAGCTCGTGGAGAGGAATAGACTTTCTCTATGAA
AACAGAAGGGGAA

Sequence 4422
CCCTTAGCGTGGTCGCGGCCGAGGTACAATCATGCACTGAGGTAAAGAAGATTCATCTGC
TCTTAGCTACCTACCATGCCAACACTCCTGAGAAAGCTCACAGAGGCCCATGATGCCCAC
CTGGATCTGAGGACCTAGAAAGCCACAACAGGCAACCATAATCTGGGTCTTCCCTCAGCC

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AACTCCCCTGCATAAAGTGAATGAATGAAAAACCCATCTTATATTAATCAGAGTTCTCTA
GAGAAAAAGAACCAATCAGATGTGTATATATAGAAAGAGAGAATTATTTTAGGGAATTAG
CTCACATCATTATGC
Sequence 4423
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGGCATGATCTGGGCCTATGCGGTCTTACA
ATCCCTGTATAAAACTAGACAATGAAAAACAGAAAACAAAACAAACAAACAAAAAAACAA
GAACGAAGCACCTACCACATGCCAGCTACTGAGGCTATGAAGGTATTCTCCGGCCTTAGA
AAGCCCAGGATTAATGCAGGATTGCGATATTTAAACAGAACATTTCCATACAGCATGAGT
ATAAATGACTTTCCCAAGTTTACACTGAGAGTAACTGACACAGCAACCCCAGCAAAGTCT
GAGCTGAGTCCTGAATAATTGTATAAAAAGGGGAGAGAAACAGAGTGAAGAAAGGGTTTC
CCAGACTCTGTNCCAGGAAAGAAAATGAGCTCGTGGAGAGGAATAGACTTTCTTCTATGA
AAAACAGAGGGAA
Sequence 4424
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTTTTAGTCCATTCTCTAACTGCTGCTA
GAATAGTCTTCTACTGTCTTCTTAATGATTATAGAATAAAATCCAAATTCTTTAGTGTGA
TATGTAAGGACCTCAATGATTTCACACTTCCATGTCAGATAGCTTATGCTACTTTCTCTA
CTGGAAATGCTCCCTCACCTTGGCCTTCTAATAAGCATGTACTTTTTTTTTTTTTTTTTT
TTCCCTTGGACCATAAATTTTTATTGGCAGGTCAAGANAAGAACCGGGGGTAAGGGTCCC
TTC
Sequence 4425
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTCTGC
TTNAAATCATGTTTATTGNGGGGCCAGGGGGTAGGGGANAATGTTATTTTTTTNTACTGA
AATGCACCTTTAACTTTATAATATCTGGTAATGGNGAAACAAAATTCACTTNTAGTAACA
AGACCTAAGCCACAAAATTTCANAGT
Sequence 4426
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTACCCACCATACAGCCAAGCTTGCTAAAGG
AAAACCCAGTTTAAGATTTCTCCAGGCCAAGAGGAGGAATGAGAGAAGGATTAATTTCCT
CAAGTTAACACTTTCCTTAGGTCCAAGGAATCAATGCCTTAAAGCACACTGAAGTTTAGA
ACACTGTGGTGACAACAGACATTCCTACCTCTCCTGATTTCCACTGGATTAGCACCTTTG
CTAATCTTCTCGAAGCCTTCCTTGGCTATAGAGCGTGCCAGTACCTCGGCCGCGACCACG
CTAAGGGCGAATTCCA
Sequence 4427
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTCCCTTTACCTGTTTCCCTACTGGAAAGTG
GGATAATACTTTTTACCTCATGGACTTGTCAGGAGGATTCATTAAAACGACTCGCATAAA
GCCTATGCCACATGGTAGATGCCAATTCAGGGTCTCAAGAAAGAACAGCCCACAGGATTG
ACACTGAACCTTAACAAAGTTAACAGGACCAAGGTGCAGAGAGGGTGCTAGGACAGCGAA
GCCAAAGAGGACCCCTCAAACCCAACAAGAGCTGTGCGGCTCCCTGATTCCTCGCCAGTG
TTGCTACCGCCCTTGGCTCTTCTTGCATGGCTGGCTCTTGAGACCCTGGAAGCTGATGGA
GGCAACGTGAGAAGCACATGGACATCCGACCTTGAGCTTGAGAGGCAGAGGCCTGAGTTC
TAGTTACAGCCCCAGCAGTACCTTCGGCCGCGACCACGCTAAGGG
Sequence 4428
GGTACNCTTGNNNTATCAANGNNANGNTCCAGCACNTCNNACANGAGCTTTTTATACCTA
NCNNTNNTGGGAATAANAANNGATNCTATATGNNCNAAGCCCNTANCTTATNCNCTNGNN
TTANTATGACNACNTTNANAATGANCACAGACTCTGNAANTGCTNCTNNCCTTTCAGCTG
NGGCNANCGTNNGCATAANTANAGNAGTGCTGNNCATGGTGGNTTTGATNTACCNACNNT
GGNGTATTNTNGATNTTTNATGAAGAANGGNAANTTCTAGNACANTGNNNGNNGNTNNNA
ANNGNANCGNGCTCNGATACNAAACTAGCNGGNNTNGTGCGTCATAGCTNGGGCTGGCCA
GGGCTTGANTGGGAGTTGCAAAGGGATTTATTATACCATGATCTCTGCTTGTGCATATGT
TTTGGAGATTTTCATAATCNAATGTGAANATTTTTGATTTTCATAATCANAAATCAATCA
AAATATGAATGGTATAACG
Sequence 4429

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CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTTGGCAAAGGAATGAAAAAAGTT
AGAAAGTTGTCTGTCTGTGGGTTAGGCTCTGCCTGCAAGATCTTACAATCTAGGTCAGAG
GTTCCTAAATCCTTCTCAATGCCGTTTGCACTGGCCCTGAGGAAAGTGTGAAAATGAAGA
CTATTGTAGAGTCTTACATGAAGCTAAATTTGTTCATTTATATCACTTCTCTTTTATTAT
GAGATTATGTCCTCTGCAGTTTTTTGGTATTAAAATGTCTTTTATGAAAGGATAGTAAGA
GTTAGATAGTAGTCTTTTTT
Sequence 4430
CCCTTAGCGTGGTCGCGGCCGAGGTACCCACCACATCCGGCTAATATTTTTTCTTATTTT
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TCCTCCCACCTCTGCCTCTCAAAGTGCTGGAATTATAGATGTGAGCCACTGTGCTGGACC
AGTGAAAGCTATTTTAAAATGTTTTTATAATTTTGTGCTTCTCTTTTAGTGGCTGCTATG
GTCTGAATATTTGTGTACCAGCTCTGCTTCATTCCTGTCTGAAGAAGGGCAGATAGTTTG
GCTGCTCCTGTGTTGTCACCTGCAATTCTCCCTTATCAGGGCCATTGGCCTCTCCCTTCT
CTNTGTGAGGGATATTTTCTCTGACTTGTCAAATCCAACATCTTCCCAATTCCCTTCAAG
ATCCAAATTGAAACATTCCAAACCTNNCANTTAAAAANNAAGAGGTTTTCTTTGGGGGTC
ACTTTCCTAAAATAATATTNTGCTTANTTTCTTNCATAACCTCTGNNATTCACCTTTGTA
TTTGGACCCACCCACATTATTGCTAAATANCCTAATCTTACCTGCTTGGAGNTTTGTCNA
GTTATGNNTNTTCACCTNGGAAAAACCAAAAGAAAAAAATTGGTTTTTAAT
Sequence 4431
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CCCGTGGCNGCATGAGAGCAGAAGAAAGGGGGCCTTTATGCCCTTTTGAGGGAAGCACAC
ATTCNTGCAAGGCCCGTGGAAACAAAGGGAGGGAACTGTTTTGTTAGCCCTCGTCCAGNA
CCGCCCCTAANACAAACAATGGAGGAAGGGAAAGGGCAAAGTTGACCTTGTCCAGGAGNC
CACTTCTGTTCAAAAAAGGGGGGACCTTGAGGTCCCTTCAGGGGGCTTGTTTGAACTCCA
AAAGCCTGACAAAGNCAGGGTGGGCATTTNTTTTCTTTCANGAGCCAGGGGCCAANGTGT
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AAGNGAAGCCANAGTTTACACCCCTGTTTAAACCCTGCCTTTTCAAAGGGGGACCGACTT
CTTNTTAAGAATTGCTTTTGCTTACCTTTAATTTCAAAGTTTTGACCACCGAAATNGCCC
CCTTTTC
Sequence 4432
TTCTCTTTGGTGGCCTCAAGATGCCAGGATAGAANTTGAGGTANTGGGATGCCCCAATAG
CTATTGACCCAGACCAGTTAACAGAAGCCACCNCATGAGGAAAATGAGCTCTACTCTCTC
CTACTTTTGGATTTTATCCCATGCAGTGGCCACCAGATNGAATAGGTGAGGCACGTGTGG
ATTCACAAAAGCATTGAGTTTATATGTACCTGCCCGGGCGGCCGCTCNAAGGGCTNAATT
CCAGCNCACTGGCGGC
Sequence 4433
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGGCATGATCTGGGCCTATGCGGTCTTACA
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GAACGAAGCACCTACCACATGCCAGCTACTGAGGCTATGAAGGTATTCTCCGGCCTTAGA
AAGCCCAGGATTAATGCAGGATTGCGATATTTAAACAGAACATTTCCATACAGCATGAGT
ATAAATGACTTTCCCAAGTTTACACTGAGAGTAACTGACACAGCAACCCCAGCAAAGTCT
GAGCTGAGTCCTGAATAATTGTATAAAAAGGGGAGAGAAACAGAGTGAAGAAAG
Sequence 4434
CCCTTAGCGTGGTCGCGGCCGAGGTACAGATCCTGGTCTGGCAAGTCCATGGGTGGGAAC
AAGCACTGTGCTGAGATGAGCTCCAATAACAACTTTTTAACTTGGAGCAGCAACGAATGC
AACAAGCGCCAACACTTCCTGTGCAAGTACTAGCTTCATAAAGTATGGTGCCTGCAGTCT
TAGATATATTTATGTTTATGTTTAAATACAGATATATTTAAAAGGCTACAAGCAACATCT
ACCCGCTCCTTACAGCCTGGTCCAGTGAGGGGTATTCCCTCCTCTCAAAGTCCACCTCCA
GGCTTCTTGTTCTACTTCAGGTACCTGCCCGGGCCGGCCCGNTNGAAAAA
Sequence 4435

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CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTCTAATTTCAAATTTTATTGTTTCGTATTT
CAGTATTTTTAGGGGAGGAAGGAGAGTCGTGATTGATGCATCCCTTTTCTTCCTTGTTAA
AAGCAAAAAGAACATTACTACCATGCAAGTGACTAGGGTGTTATATGGCGCTGTGGAATA
AAAGTTAAGCCTCCTCCCACCCCAGCAAACCAGAATTTCTGGCATAAACATACCTTATAG
AACAGATATATCAAATCTACTATGAAATATTTAGCATTCTGGATATCTTTAGAAGTTTAT
TCTAGTCCTGGGCTGTTTATTTCACACATATTTAAATAACTAAAAGAGATATTTATAAAT
TAAATTATATTTATGGAACAATTACTTTACACATATTAAT

Sequence 4436
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCCCCTC
TATGCCCTACAAGGGAGTTCATCACTTCAGATTATTTTAAAGATGAATGTGGAGGCAGAG
ACATTCCAAAGTGGGAGTTAGATAGCAAGTCAGTGGCAAGGCCCAGGGGTAGAGACCTGG
GAAGACCAGCTGCAATTTGTGCTGTTTAATACTAGCAGCCTCGAAGAGAGCAGACCCATT
ACAGCTGCAGGCTTGTTCAATTATTCTAACTTTATCTTTAAATATTGCTAGAGCATCTCA
TAAGCTAAAGTGCTTTAAT

Sequence 4437
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATTATATGCAAGGTTACAAAAAAAAATCA
ATGGTTAATGATTTTTTAGCTCAACCAAGCTAAAAGATGTGAACAAGAAATTGAACTCAA
AACAACTTAAGATACAAAGCTCTTGTTACTGATAATGTCTAATAATATTCATCAATTTAC
CATATCTTGTTCTTATATTAAAATGTTCTATCATTTTCCTAATTATTTTAAAGTCGATTA
CAAAAATATATATATATTCTTGTAGTGCCAGAAAATTGAATACATTAATAAATGGGGTAG
AATAGATGAATCTCCCATGAAGAAGAATTCCAAATAATTTATGAACTCTGCCCTCAAGGA
TATGGAGCAGAACTTCCTACTTNTCTAGTGTGAGCTGAATAGTGACTTCCTTCCAAAAAT
TACCATATGGGAAAGGGGGAAAATAACTTTTGT

Sequence 4438
AGATATCTGCANAATTCGCCCTTTGAGCGGCCGCCCGGGCNGGTACAGTATATTTATCAG
CCGANTTTTTTNTTATCGTTCCAAATTACATTTGGGGTTTCGGNATACGANTTTGAGGCT
ACNANCCTTTTATGTTTATTGTAGTAGGGCCTTAGATTTGCNCCGAAAAGGCTAGGGTAA
TANGTGTNTTGTTTACCTTACCACTTTTATTTT

Sequence 4439
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGGAACTACAGGCACATATCACTACAGGGG
GCTATTTATTGTATTTTTAGTAAACAGTGTTCATCATGTTGGCCAGGCTGGTCTTGAACT
CCTGACCTCAAATGATCTGCTTGCCTTGGCCTCCCAAAGTGCTGAGACCACAGGCGTGAA
CCACTGCACCAGACCAGATAGGATAATTTAGCCCTCTATAAAATTGAAAATTGGAGACCA
TTTTCTCTTAGAACTTCAAACATTATTTTTTGTCTTCTGGCCTCTATTGTGCTATTAAAA
AATGTGTTATAATTTTAATTGTAAACCCATTGTAGATCATTGTTCCCACTTTAACTGATT
TTAATATCTTATTCTCTTTATAAGTATTTAAGTTTCAATGATGTATCTATATTTTAAACA
ACTTATAGGATATTTGCTTATCCTATAAGTTTTGATAAAATTCTTAGGTCTATGACATCT
TTGAATAATCTTGTCAAATCTTATCTATTATCTCATTAGANATTTCTGCTTTCCATTCTT
ACTTTTGGTTGGATACAACTTTCAATAAAATTATATATTAACATTTTTCCATTCTAACTT
TCATTTCACCCATCTCNTTTTCATAATAATAATTCAAATTGGCCTTCCCTTT

Sequence 4440
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGTATTTTTAAATTAAGGAGTTTTAGTTATA
ATGAAATTGATTTGTAGTCTGTTTTGCCGTAAACTTGTTTTCTTTAAATTGTTCTTACAG
TGATATCTTACTATTTTTAACTGTCTGGGGTTTCTGATATGGGGATTTCAGCCCCTGGTT
AATCAGTCTTGTCCCTACAAGTCCCTGATGCAGTATGTTTATTTGTGATGTTTAAAGAAC
ATTTCTTGGCTGGGCGCTGCGGCTTGCGCCTGTNATCTCAGCACTTTGGGAGGCTGAAGG
TGGGTGGATCACCTGAGGTTGGGAAGTTCGAGACCAGCCTGACNAAACATAGTGAAACCC
CGTCTCTACTAAAAATACAAAAATTAGCTGGGCCGTGGTGGTGGGTGTCTGTAATCCCAG
CTATTCGGGAGGCTGAGGCAGGAAAAATCGCTTGAACCCGGGAGGTGGAGGTTGCAATTG
AGCTGANATCCTGCCACTGCACTCCAGTCTGGGTGGACAGNAGCAAGGACTCCATCTNCA
AAAAAATAAAATNAATAGAAAGAAGANANGAGAGGGAAAAAA

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Sequence 4441
CCCTTTCGAGCGGCCGCCCGGGCAGGTACANTGGATGGAACCCAAAAAGGCCACGTTACT
CAAATGTTTCAGAACAAACTTCTCGATTAAAAGGAACTCTGATGAAATTACAGCTTCTTT
AGAAATGAATGCCAGTGAAAATATTATTCATCAAAGTCCGCAGGGAGCAGCCAGGAGCAC
ACAGGAAACACAGCCGGAAATGCGCTTACAAAGACTTGGCGGGCACGTGGGCTCACGCCT
GGAATCCTGGCACTTTGGGAGACTGAGGCAGGTGGACTGCTTCAGCCCAGGAGTTCAGAC
CGGCCTAGGCAACACAAGCAAGACTCCATCCATCTCTACAAAAAATTAAAAAAG
Sequence 4442
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGCTTCTTCTCTTCGTTTTCCTCCAGCTTCC
GGATATGGCGCAGGACAGGCTGCAGATTCATATAGAGGCGGTGGCTGTTGCTCAGAAGTT
GCAGGAGGTGTCTGGAGCGCATGGGGCACCCCGTGTAGTATATGAGCTTCCGGGCTGAAG
GCAAGCCATCTGGCAAAATCTCAAATTTCTTACCCACAAACACCAATTTTCCAACATTTG
TCCAGGGGAAATCATAAAGTAATTGTTTCTCTTCATCTAAATTCTGAAAAATCTGTATTC
CCCTCATGGTCAATCCAAGAGTCAGCGATGCTTCAATTTCCCTTTTATCCTTATACAATC
TGTAGTAATGAACAGCGACGTCATCCAGTCGGACAGCCTCTTTGATATATTTAAGATGAG
CTTCGGAAGCTGTTAGTGCAAACTGATCTTTGTGCATGTTTGGAATGTGCTTCAAGATGT
AAGTCCTTCC
Sequence 4443
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCGCCCCGGATTGATAAATTCTGGGGTGCAT
AACCATTGATGAAGAGGCTATCCCTGTCCAGGACATAGAAGCCCAGTTGGGTGACACCAT
GGGTCAAGCTTGACTCAGCTCCCAGTAAAGCTGCTGTATGTCCAGCCCGGGGCCCACAGG
GTCAGGGTGGTAGGTGCAGGTGGTGTCCACACCAGTGGCTGCCCCATCCTTCTCAGGCCT
GAGGGAGATCAGTTGGCAACCCAAGTAGAAGGGGCCCATGCTGCTCTTCTGGAACAAGGG
TCTGAGCAGGTGCTGAAGGACCCCCTCGGTGGNAGTTGAATGTAACCTGAAGCCCT
Sequence 4444
CCCTTGGCCGCCCGGGCAGGTACTCGCCCCGGATTGATAAATTCTGGGGTGCATAGCCAT
TGATGAAGAGGCCATCCCTGTCCAGGACATAGAAGCCCAGTTGGGTGACACCATGGGTCA
GCTGACTCAGCTCCCAGTAAAGCTGCTGTATGTCCAGCCCGGGGCCCACAGGGTCAGGGT
GGTAGGTGCAGGTGGTGTCCACACCAGTGGCTGCCCCATCCTTCTCAGGCCTGAGGGAGA
TCAGTTGGCAACCCAAGTAGAAGGGGCCCATGCTGCTCTTCTGGAACAAGGGTCAGGTGC
TGAAGGACCCCCTCGGTGGAGTTGAATGTAGCTGAGCCCTTGCCCATATCTGGTGAATAC
TGGAGATTGGAGATGGTGAAGTTGAGTGTGAGGGTCTTCAGGTGGTACCTCGGCCGCGAC
CACGCTTAAGGG
Sequence 4445
CTTAGGGAGTCGACTCAAGCTCTTTCTTTCTGTTCAAGAAAGGTGATGCCTATCCCTACA
TGCACCAAAGATTAAAGTTCCAAGGTCCACAATGTAAGGCAGAATTCTCCCTGAGTGCTG
TGACCCCAAACATTGGGGGTATCTTTACGTGCTTTGGTTCTCAAAGCTCATCTCCTTACC
TGTTGTCACACCCCAGTGTTCCTGTGGAGATCAAAGTTTCAGGACTGGCAAAGTACCAGA
AGTCTTTGATATGGGTCTCCGTAGTCTTCTTCCTACTGTTCTTTGTCCTCACCCTCTTCT
TTTTCCTCAGACTCTGGCATCAGAACAAGCACAGGAAAGGAGTACAGACAAAGATTGACT
TGCAACATCCAGAAGGAGCTGTAGAGCCAAAGAGCATTGTTGGACACCTGCAGAAGAGTT
CCAGACCAGCTNCTGCCATCCAGGAAGAAATCTTGTGTGAGAAAAGATGGCCTGGGAGGG
AGATAACTGAGGTCTCAGCATCTGATGCTACTGTGAANGTCACAAGGTCTTGCAGACAAT
GTGGAGCTAGGCATACTGAGCCCACATCAGGGATGACCCCTCATACACTTGTATGCCCAA
GGTGAAACCTGCTAGACTCAGAANGGCACAGACTACCTCTTCTTTCCTGTTTNCAAANGG
AATTACAGGCACTTCTTAACCCCAGACCGGAAAAA
Sequence 4446
CCCTTAGCGTGGTCGCGGCCGAGGTACAGCACAGGAGCGAAGACACAGGTGGCTTGTCTA
ATATCTTGCATTTTCGTCCTTATAGTCATCTATGCAATAGGACCTTTGCTTTACTGGCTG
CCCATGTGTGTCCTTGCAAGCATTATTGTTGTGGGACTGAAGGGAATGCTAATACAGTTC
CGAGATTTAAAAAAATATTGGAATGTGGATAAAATCGATTGGGGAATATGGGTCANTAAG

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CAGTGGTAA

Sequence 4447

TCGCCCCGCGTCCGGAAATTTTGAAGAATATTAGAAAATATCTGAAACTGAATGAAAATA
AAACACAACATATCAAAATTAGTGAAATAGAAATAAAGTAGTACTTAGTGGTAAGTTTAT
AATTAATTTACTTACGTTAGAATTAATTACTTTTATTCGGAAAGAATAAAGGTCTCAAGT
CAACACTTTAAGCTTTTGCTTTAAGAAATCTAAAAAAAAAA

Sequence 4448

TAGGGAGTCGACCCNCGCGNCTCGGCCNGACCGGNNCGATGGCTCGCTCGGTGACCGTGA
TCTTTCTGGTGCTTGTCTCTCTGGCCGTCGTGCTTGCCATTCAGAAAACTCCCCAAATTC
AAGTGTACTCTCGCCATCCACCGGAGAATGGGAAGCCCAACTTCCTCAACTGCTACGTGT
CTCAGTTCCACCCACCTCAGATAGAAATTGAGCTACTGAAGAATGGAAAGAAGATACCAA
ATATCGAGATGTCAGATCTGTCCTTCAGCAAGGACTGGTCTTTCTACATCCTGGCTCACA
CTGAATTCACACCCACCGAGACCGATGTATATGCTTGCAGAGTTAAACACCGTCACTCTG
AAGGAGCCCAAAACCGTCACCTGGGACCGAGACATGTAATCAAGCTCTATGGAGCTCTGA
ATCATCTGGACCAGTTTAACTCCAGATCCGGTTTCTAATATGCTATACAATTTATCCACA
AAGTAAAGAATAGCAATGAGCACACCATCTTCTTCATATCTTACCTTAAATATTTTATGC
ATGTTTTAAAAAAAATTGGAGACTAATATCCTAGATTTCCCGGAATAAATAAAAGCTTCA
ATGAGTGTTTTGATCAAGAATAATTAAAAAAAAAAAAAAAA

Sequence 4449

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGAATGCGATCACTGTGGGAAGGCCTTCAGCA
TAGGTTCCAACCTGAATGTGCACGGGCGGATCCACACCGGGGAGAAGCCCTACGAATGCC
TTGTCTGCGGGAAAGTCTTCAGCGACCACTCATCCCTCAGGAGCCACGTGAAAACTCACC
GGAGAGAGAAGCTCTTTGTGTCATCCGTGTGGAAAAGGCTCCAGTGAGCGCGCCTGCTTT
AGAGACACAGGATGATTCAGACCGGAAACAGACCTCGTGGGTGTAAGAGGAAGCCTCTGT
GAGCTCGCACCTTACTGGGTGCAAAAGAATCCACGGAACTTGGGAGAAGTCCAGTTCCTG
TAAAAACTGGGAAGACGAGGCGTTCTCATCCCATAGGAGGTTTGTGAGAACTCACGCCGG
GGGTGAAAATG

Sequence 4450

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCTGCTGAAATTCCCTATCTATACAAAAATG
TAATTCACCTTTTCTACTGGATCCTTAAACATATTTATAAAAAGGATTTTACAATCCTTG
TCTGTTAGTTTCAACATATGGCTCATCTGTGGATCTGCTTCTATTGACTATTTTTTCCCT
CAGTCTTATTTTTTCTGCTTCTTCCTGAGTCTTGTAACTTTTTATTTTATGCCAGATGTT
GTGTGTAAAAGTGTGGCAATAGGTATATCCAGAAAAGGACATGTCCCTTCCGCTGTTAGG
CTGCTAGGA

Sequence 4451

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCGGAGGTTGCAGTGAGCTGAGATGGA
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TGTCCCCACATCTCCTTTGTGATGACAGATTATGGAGGAATTGAGGGACATCCTCTGGGA
ATTAGGGGTGATGCTTGCTATCTACACTGAGCATTACCGAGGCCCTGACAAGGAGCTTTT
CACTGCGGGCATGAGAAATGCCATCTTACAGTAGGCACACTACCAATGGTGTGGCACACT
GGCGTCTATCTTGAGTCCCTTCATAGGAATCACTTGAACCTGGGAGGCGGAGGTTGCAGT
GAGCCAAGATCGTGCCACTGCACTCCAGCCTGGACCACAGAGTGAGACTCCGTCT

Sequence 4452

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTACACTTGGAATAAGACACTGTTCTGAATT
TGTGGCATAGTTTTTTTTTTCATATTGACATTAATAGAGGCTTNTATNGGGGTTAGGCTA
AAAATCTTTNGTAAAAATTTTAAATGACNCTGCTGATTTTTATCCGTTAATTATCAGTTT
ATAANCTAATAAAAACTTNGGCTNGATATTACATTCTAGNGGTTAAATTNGNCATAAAAG
GAATATGTGCTGAGTTACTTATGTATNGNAATCTNGANATTNCNATTTTTTATTTGAAAA
TTANACAAAGTTGGTTTTTAATTTTTATTNCATTTTAATAATNGAGTTCAAATTAAATGG
GAAGGCTAAATTNGAATTCTGTTTTTCTCTCAAAATACTGNTTTTCTATTATTTAAAGGC
ATTCCTTGGAGGTCTAAATTGGGCATTTATAGGTGTTGATGAACCNCACCGNTTAAAGAA

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TGATGACTCCCTTCTGTATAAAACTTTAATAGATTTT
Sequence 4453
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAATCAGAGGATTAAAAATAATAAAAAAG
CATAAAGGAAGTCCAAGTGACTTCTGGGACACCATCAAATGAACCAATTTGTGTGTATGG
AAGTTCCAGAAGGAGGAAAGTGAGAGGGGCAGAAAGCATATTTAAAGACATACTGGCTGA
GGCCAGGTGTAGTGGCTCACACCTGTAATCCCAGCACTGTGGGAGGCCAAAGTGGACGGA
TCACATGAACACAGGAGTTCGAGACCAGCCTGGCCAACATGGTAAAATCCCGTCTCTACT
AA
Sequence 4454
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Sequence 4455
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CCCATGTGTGTCCTTGCAAGCATTATTGTTGTGGGACTGAAGGGAATGCTAATACAGTTC
CGAGATTTAAAAAAATATTGGAATGTGGATAAAATCGATTGGGGAATATGGGTCAGTAAG
CAGTGGTAACAACGCAGAGACTTTNNTTTTTTTT
Sequence 4456
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACACAGAACTGTTTCATCGTCCTAACTACT
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CTCCTTCTGCTTTCTTCTTCTTTTTTTTAGGAAGGTCTTGTTATATTGCCCAGGCTGCTC
TTAAAATCCCTGACTCAAACAACTCTCTCACCTCAGCCTCCCAACATGCTGAGATTATAG
GTTTGAGCTATCAAGCCTAGCTTGATTATAATCAATCTCTATAACTTTCTTTTTCTACAA
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GAAATGCATGTCTGACTCATGCATACTGTGGCGTANATCAATAATTTGTTTTTTGTTGTT
GTTGACAACTAGGATGCTATTTTATGGATGCACCACAGTTTATTCAACTGCTATAAAGCA
TCTGGTTTATACCCAGCTTTTTGCAATTGAAAATAAAGTTAGCAATACACAGCCCCAAAA
AGGTTTGCATTTCAAACATTAGTTTTCACTTTG
Sequence 4457
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CTGTCCAATATATTTATTCTGTTTTCACTGGTGCCTCCTCCTTTGCATAACCTGTGGACA
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TGTCTACAATGTGCTAACACCATTCTAGATGCTGGGAATGGGGTGGTAACAAAACAAAGT
TCTTTCCTTCATGGAGCTTATCTGCTAAAAGGAAGATAGACAAATAAGTNTATAATATAA
TTTCAGGGGGTAAAAAATGGTATGAATGGGGCT
Sequence 4458
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACCTGAAGACCCTCACACTCAACTTCACCA
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AGGGGGTCCTTCAGCACCTGCTCAGACCCTTGTTCCAGAAGAGCAGCATGGGCCCCTTCT
ACTCGGGTTGCCAACCGATCTCCCTCAGGCCTGAGAAGGATGGGGCAGCCACTGGTGTGG
ACACCACCTGCACCTACCACCCTGACCCTGTGGGCCCCGGGCTGGACATACAGCAGCTTT
ACTGGGAGCTGAGTCAGCTGACCCATGGTGTCACCCAACTGGGCTTCTATGTCCTGGACA
Sequence 4459
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNGAGACGAAG
TCTTGCTCTGTTGCCCANGCTGGACTGCAGTGGCACNATTTCNGCTCACTGCAANCTCCN
CCTCCCNGATTCATNCCATTCTCCTNCCTCAACCTCCCAAATAACTANNACTACAAGCNC

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CTACCACCACACCCAGCTAATTTTTTNTATTTTTAATNAAAATNGGGTTTCACTGTATTA
ACCAAAATANTCTCAATCTCCTAACCTTATAATCCACCCATCTTNACCTCCCAAAAACCA
AAAAATAAAAANCCTTTTNCCACCNCACCCAATCCCTAAATATATAANTATTTAACTTTC
ATTTTCCTTAATAACTAATATCCTTTTATTTTTCCCACATAAANNTTTAAAAAAAAATTT
TCCCAACNTTTTCAAAAAAAACCCTTCTTAAAAATTTTAAATTTCCNATTTTTTTTTNAT
TCAAATAAAAACAATTTTNAAAAAAAAATTTACTTTTTTNNCCCAATNTTTTAAATTTTT
TNATAAAACNTAAAAAACTCAANTGATAANCTTTTCACTTTANTTAANATTCATTTTTTA
ACTTTTNTCNNCNNAAANTTTTTTTCTTTTTNCAAANCCACCAAAANTTTNCNTTTTTTC
CCCCNTTNCCTTNCCCAAACNACCCTTTTAAAA

Sequence 4460
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGTATTTTTAAATTAAGGAGTTTTAGTTATA
ATGAAATTGATTTGTAGTCTGTTTTGCCGTAAACTTGTTTTTCTTTAAATTGTTCTTACA
GTGATATCTTACTATTTTTAACTGTCTGGGGTTTCTGATATGGGGATTTCAGCCCCTGGT
TAATCAAGTCTTGTCCCTACAAGTCCCTGATGCAGTATGTTTATTTGTGATGTTTAAAGA
ACATTTCTTGGGCTGGGCGCTGCGGCTTGCGCCTGTAATCTCAGCACTTTGGGAGGCTGA
GGTGGGTGGATCACCTGANGTTGGGAAGTTCGAAGACCAGCCTGACAAAACATAGTGAAA
CCCCGTCTCTACTAAAAATACAAAAAT

Sequence 4461
CCCTTAGCGTGGTCGCGGCCGAGGTACCCTCTCTCACTGTGGGTCCCCTGTATTTCTTAT
CTCCCACTCAAGATCAGTGTTTCTGAGGCTAAAATCCAAGCAAGTGTGGCCTAGAGGTAG
GGGGCTTTCTTCTTCTACCCACCCTCCACTCACAGAGTCATGCTCTACGGTAGGCATGGC
AGGCTGAGAATACAGGGGTCTCTCCTGCTCTCATTTCAGCTCACAGGGCAGAAGTTTTGC
ACCAGATGAGGCAAGCCAAGACCAGAGGCTGCTGTCACTGTCTAGTCCCTAGCTTCAGAG
CAGTGNGTTAGAGATTTTTTTCCCAGGGGAAGAG

Sequence 4462
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCAAGGAACAGAAAATTGTATTTTGA
GTTTCCTTAGAGATTCCAGAACATTCTGCAGTAAATAAACAAGATCAAGCTTATGTTTTA
AAAAATTATCAGAGAATTAGAAAATGTTACTGGAAAGAAAACCATTAAAAAAGTGTTAGA
AAATAAAAGAAAAAAAGTCTCAAAAGATAGAGCAAAAAAGTCAAAAAAAATGAGAAAACT
CTGAGAGAAACATCAAAGAGAAACATCGAGATAGAGAGGCTAGAATTCCATCATGTGACT
AATGCCGAACTTTGGAAAGATCAGAAAAAATAGAGACAAGAAACTAGTCAAAAAACTAAT
TGACATTATTTCACAACATTTAACAACAAATATCAAATTGGGAGAACCTGACAAGTTCCT
AGAATGATGGAAAAAGTCCTATTTCTAAACACATTCATGAAATTTCAGACATTAAAGATA
CAAAGATGGTCTTAAAGGTGATTGGGGAAAAAAATGCCAGTTTATGGATAAAGTGAACNG
GAATCAGATTGGCANTAGAAAATGAAGCCGTGAGACAAAGANAAAATTGTATATTCTTGG
CCAGCCATNCTAATCTGGGTAANGGTANACCCCAAAGTAA

Sequence 4463
CCCTTAGCGTGGTCGCGGCCGAGGTACTCCTCCTTGGGCTGCAGTAAGCATGTCAGGTGC
CACATGGTTCTGCAGGACAACTGTGCGCAGTTGAGCACGTTGATCTAATAATAACATAAG
CCCAGAACTACTATCATTAANAGCCTTTTCTGTGTGCAAGCTTAAGACTTTGGTTTGCTG
CTGGAGTAAGACAGTGCCTGCAGCAGGATAGAGTATTGTGACAGGATACCACCACCATGG
GGTTCGACGCACTTGCAACCAGCGATATTTATAAGTTTCTAAATTACT

Sequence 4464
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCAAGGTCAATAACTAATATTTAACA
CATATTCATTCACAGATATGAATTGAGAACAAAATAGCACCAGAAATTTTCAAGAAGTGA
AGAACAAATGTAGAGAAGCATAATGATAACAAATAGAAAAAAAAAGATGCCCCAAAAAAC
AGAACTCAAGGAACAGAAAATTGTATTTTGAGTTTCCTTAGAGATTCCAGAACATTCTGC
AGTAAATAAAACAAGATCAAGCTTATGTTTTAAAAAATTATCAGAGAATTAGAAAATGTT
ACTGGAAAGAAAACCATTAAAAAAGTGTTAGAAAATAAAAGAAAAAAAGTCTCANAAGAT
AGAGCAAAAAAGTCAAAAAAAATGAGAAAACTCTGAGAGAAACATCAAAGAGAAACATCG
AGATAGAGAGGCTAGAATTCCATCATGTGACTAATGCGAACTTTGGAAAGGATCAGAAAA

TABLE 1A
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AATTGAGACCANGAAACTAGTCCAAAAACTAATTGACATTATTTCACAACATTTACAACA
AATATCAAATTGGGAGAACCTGGCCAGGTTCCTAGAATGATGGNAAAAGGTCTATTTCTT
AAACCCATTCATGAAATTTCANAACNTTTAAGATCCAAGATNGNCTTAAAGGGGATTGGG
GAAAAAAATGCCCGTTTTTGGATAAGTGGAACGGGAATAAGATGGCATTTNAAAATGAGG
CCGGGGANAAAAANAAATTGTTNTTTTGCCCAGNCATCCTAATCTGNGTAAGGNTTACTN
CCAAGTANAAAAAAAAAAAAAAAA
Sequence 4465
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GAATTGAGAACAAAATAGCACCAGAAATTTTCAAGAAGTGAAGAACAAATGTAGAGAAGC
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ATTGTATTTTGAGTTTCCTTAGAGATTCCAGAACATTCTGCAGTAAATAAAACCAGGATC
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AAAAAAGTGTTAGAAAATAAAAGAAAAAAAGTCTCAAAAGATAGAGCAAAAAAGTCAAAA
AAAATGAGAAAACTCTGAGAGAAACATCAAAGAAGAAACATCGAGATNGGAGAGGCTAGA
ATTCCATCTGTGACTTATGGCGACCTTNGGAAGGATCAGAAAAAATTGGGGNCAGAAACT
TGTCCAAAACTAATTGCATTATTTCACACCTTTTACCACCAATNTTCAATTGGGGGAANC
CGGCCAGTNCTTGAATGNTTGGAAGAAGTCCTNTTTCTTAACACCTTCATGAAATTTCAG
AACNTTTAAGATTCCAAAGTGGNCTTAAANGGGGTTNGGGGAAA
Sequence 4466
CCCTTAGCGTGGTCGCGGCCGAGGTACAACATGGATGCATGAAATTTTAGACATGATTCT
AAATGATGGTGATGTGGAGAAATGCAAAAGAGCCCANACTCTAGATAGACACGCTTTCCT
TGAACTGAAATTTCCCCATAAAGAAAAACCAGATTTGGAGTTCGTTCTTGAAATGTCCTC
ACCACAACTGATAAAAACACATCTCCCTTCACATCTGATTCCACCATCTATCTGGAAAGA
AAACTGCAAGATTGTCTATGTGGCCAGAAATCCCAAGGGATTGCCTGGTGTCCTACTACC
ACTTTCCAGGATGGCTTCCTTTATGCCTGGATCCTC
Sequence 4467
CCCTTAGCGTGGTCGCGGCCGAGGTACGTTTTTCTCCACAGAGCAACAAAGACACCTATA
CAAAGTCATAGGAGATCAAGGTCAATAACTAATATTTAACACATATTCATTCACAGATAT
GAATTGAGAACAAAATAGCACCAGAAATTTTCAAGAAGTGAAGAACAAATGTAGAGAAGC
ATAATGATAACAAATAGAAAAAAAAAAGATGCCCCAAAAAACAGAACTCAAGGAACAGAAA
ATTGTATTTTGAGTTTCCTTAGAGATTCCAGAACATTCTGCAGTAAATAAAACAAGATCA
AGGCTTATGTTTTAAAAAAATTTCAGAGAATTNGAAAATGTTTCTGGAAAGAAAACCATT
AAAAAAGTGTTAGAAAATAAAAGAAAAAAAGTCTCAAAAGATAGAGCAAAAAAGTCAAAA
AAAATGA
Sequence 4468
CCCTTAGCGTNNTCGCGGCCGAGGTACCGCAGTATGGTTGGCCATGGGATTATCCTTCAT
TACATCAAATGAGGTATGGTGGACAATCTTGTTTATAACATCACCTGACCAAGTTTTCTC
CAAGAATTCCAACACCTTGTGGATCTCATGTTTTGGATTTTTTTTAATATCCTCGTAGAA
GAGGTAGAGGATCCGGTGCATGTCTTTTGCAGCCCACCATCCTTTCACATGGTCAAACCA
GGACCCGCCAACAACTTTTNCGGGACATGAATTTCTCATAAAATTCCTCTAAGTTCTGAG
GATCAGGCATAAAGGAAGCCATC
Sequence 4469
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ATCAGCTGCTTTTCCAGCATCAGATGGTATATTTGACTTTTTGATCAATATCAATAAGCA
TATTAATTTTATTATATTAATAGATTTCCCAGTATTGAATCACCCTGCATTCTTGGGTTA
AATACTATTTGCCTGTGGTAGGTTGTTGAATGAATATGATCTTATAGTATTTGTTTATAC
AATCATATATATGAGACAATGAATATTTATGCTCATGTACCTCGGCCGCGACCACGCTAA
GGG
Sequence 4470
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAATGTGGGTATGGGCAGCTGAGGAACTTA

TABLE 1A
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ACTCAATGTTTTAATTTTATTAATTTGAATTTAGCCACATATGGCTAGCCAGTGGTTACC
ATATTGGACAGAACAGATGTANACTANTAGAGTGTNAGTTTCAGTCATTTGAACCAT
Sequence 4471
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GAGTTGGGATCTTCTGTAGCATCCTGCCTGAGATATATGAGAGGAAATACGGAAAAACAG
GGAACTCATTGCCATGCCATTCTTCAAATCTAAAGGTCCCTAGGAAGCCCACCTTCTTTT
TCTACTTTTCTGAGACTTCCTATACTTGTTTGTTTCGTTATATATGGTTTTTGTTATTTC
TGGTTTTGTTATACCTCTTCAGGTAAAAGAGGGAGGACACGGGAGGAAGGGGATACTCCA
TCTTGGCACAACTAGAAGTCTCTAAGTTGCTTTTTTGTAAATATAAAACTCTCAAATAAG
AGAAATAATNAATGGTGGAAAT
Sequence 4472
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AAGAATCAATGAACAAATACCCAAGTGGGGGAGAATAATTGCAATATGNTTGACAGAAGG
AGGATTGATATCATTAATATTTAGGGATCACTGAATAAGTCAACCAGNAAAAGAGATGAG
NATNAAATTCAGTTTGAACAGAATNTTTTTCANAAAANANTANAAAACANAAANGTTCNA
TTGAGGAGCCANGTTTTCAACCTTTTTTTTGGGGCANAAGAAAATGNTATTGATTAAACC
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Sequence 4473
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GGGTCAGGGTTCAGCCAGGGATCAGGGCTCAGTTCAGGATTGGGGCTCAGCCAGGGTCAG
GGCTCATCTTGGAGTCAGAGCTGAGCCTGGGGTCAGGCATCAGTCTAGGTTGGAGGTTGG
GATTGGGACCTGGGGGTCTTGGTCCAGGATTGGAGGCTGTGTCTGGGATT
Sequence 4474
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CAACCTGCACCACTAAGAAAAAAATGTAGAACCATTTGGAAAAATGAAATTTAGTAGTTC
CAAGTTTCAAAGAAAATGTCAACATTTTATTCCATTCAATAAAGAACAAAACCAATAGTG
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GAAAATATTAAG
Sequence 4475
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TTTGATTCTGGACCCAGTTCAGTTTTTGGCATGACTTCCAAACNCAGTTTTGGATT
Sequence 4476
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTATTAAGAGAA
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TTCTTGACTTTAATTCACTTCAGCAGATGATAACTCAGGNGGGATTATGTNATGACAGTG
ATCTGACAAGGTCCTTGTTCAGGGNAGTTACTGACTTTT
Sequence 4477
CCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGCTAGTTTAGTG
TTTGCATTTATTTTAAAAATACNCAAAATAGAANTTTTTACATCAAAGTGTGATAACCTC
ACTTACACATTGTTNNCATACTTACCT

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Sequence 4478

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGCCTGATCTCTCTTTTCCCCACATTTACAAA
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AAGTCCTTTCATTTCTTTGCTGGAGTTTTTTTGAGGCAGATTCTAGAATTGCTGAGTCAA
AGGGCAAATGCCATGTAGTTTTGTTAGACGCTGCCAAATCCTCTTCCATGAGGCTGCAAT
ATTCTGCATTCCATAGTGACGTATGAGAGTCCTTGTATCCCACAGCTTCATAAACAAAGC
ATGACGGCACATCTGCACGTTTACCAATCACACAGGTGAGAAATCTTATCCTAGCTTCAC
CTTTGTTTTTGGTTTGCATTTTTGTGACCAGCTTTTTTATGGTATAATGCACAGAAGGTA
ATGAACACATTCTACCCACAAGCTTCTTCCTGTGCCTTTGGAATCTGCTCCTACCAGTCT
GCAGGCAACCACGGATCTG

Sequence 4479

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTTGTTGGATGATGGATATTTTTGTATCCCTA
TAAATATCCTTGATCTTTGTTCTGGGACACAGGTATTTGGAAACAGGTTTGATCCTTCCC
AGGCTTGCTTTTCAGCTTTGTTAGGCTGGGACCACGGAAACATTTAGTCAAATGCCAGTT
TTGCTCCACTATTGAGACAAACTCCTGAATACTTTATCCGATGCCCCATGAATAATATTT
TCCACTTTGGTTGAAGGAAACAGGAAATATTCCCAGCCCTGTGTAAACCATAGGAATTGT
TCCTTGTAATCACTTTGAGTGGTCCTTTCTCTGGTCTTCAGTAATTTCCTCACAGCCATG
CACTTATTAGCTGAAGACTGAAGAGGGCCACTCCGCANGTCTTTCGGCGAGCTTTCTCTC
TTGCAGCTCTCTGCTCACCAGCCCTGACCCTGGTAAACTCCAGCTACCTTGGTGTCTCAG
AATTCCATTTCCATCTNCTCAACTTACAAGANGCTGCCCGGGCTGTGTTTGGGTTCCCCC
CTCCCTNTGCTTGNANCCTGGAAAANATTTTCCAGGAAACCGACTGGGNAAATGCCCAGG
GCTCATTAACATTTATNTTTTCAAAAGAGCCCTTGGCCTTAATTACCCTGGACCCCCCAN
NGTTTTTGGGAAACTGNTTGGTTNCATATANTTTTAANCANGGGGGGGTTAANTTGGTTT
NGGGG

Sequence 4480

GATATCTGCAGAATTCGCCCTTGGCCGCCCGGGCAGGTACACAGAAAGGCAGAAGTTGAA
ATTAGTTTGAAGACTACATTGTATATTACACAATATACATTGCTTAAGCATCAGCAACGT
GAAGCAACATCAATGCCGTTTCTGGATGGTTACAGCAGTTATGTCAAAATTAGATTTTTA
AAAGTAAAAAGGCAAAGAAATTTGCCACATATTTAATAATTACTCTTGGGAATGACTGCA
AATTAGAGATGTTAGGTATTATTGATTCATTTATTCTTTAGCAAATGTGTATTGAACACA
TACTATGTATCAGGCAAATGGATATCACCTCCCCTACTATGGAAGAATAACAGTAATCAG
ATAATTAAAAATTATATACTCCAGGGTGGCAGAATGACAATCAGTAATCAAAATTATTAC
AAATTATATACTACAAGGAAAACAAAGAAATAAAGGGAATTAATGGAGGATTTACCCTAG
GGGTGGTTAGAAAAGGGTT

Sequence 4481

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CAGGCTGCTCTCAAAACTCCTGAGCTCAAGGGATCTTCCCACCTTGGCCTCTCAAAATGC
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ATGGTGGTTGGAATTNGGTAACTTCCCTNTTGGGAGAAATTTCTTTGTGAAATTACCACA
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GGGGCCCATTTTTTNTAANATTTTTNTTTTTGGATAACCCTTCCCCTTTT

Sequence 4482

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TGATCTCTTTTGGTGTGGGAGGACATGGGGTACCCATTATCTTAGAAAATCTAGTTTAAA

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CTGTTTTCTTTCACCGCAAAAGAATTAAATGGGAAAATCATTTGTTTATCTCTAAGTTAT
ACTAATTAGTAGAACCAAACAAATTATCTTCTTTTAAAAAATAAATCTTATAGGAAAATA
GACAGTCCAAAGTCATGTCTTTGAACAGTGGATTGGAATCTGTGCCAGTAATGACAAAAT
TATTTTTTTGACTTGCT
Sequence 4483
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTNTTTTTTTTGAAAGAGA
TAGGGGTCTCATTATGTTGCCCCAGCTGGAGTGCAGTGGCTACACACAGGGACAATCATG
GCCCGATCATTGCTTCAGGCTCCTGGGCTCAAGCAATGCTCCTGCCTCAGTGNCCTGAGT
AGCTGGGACTACAGGTGCATGCCACCACGCCTGGCTTATTTTTNATTTTNCTTTTCGTGT
GGCTGGGAATATTACAACAGAGACGTTGGGNAGTNCAGCAAACANATGGTTNTTAAACTG
NNCAATNAAAATGCAACANAAAAGGGCTTCCTTTCAATCAAAGGAATNAAGGGATGCTTT
GCTTTTAAAGGGGGCCATTCAA
Sequence 4484
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AATAAGCCCCAAACTTTTAAACAGTGCAGGTTATTGCTGCACTCCTTTAATTCCTTATCC
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CTTGGTNTCCAAAATCTAGTTTTGTGCAAAAAATGTTTCCACCTNNATTTATAGAGTNCC
CCGGGGGA
Sequence 4485
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TCTGCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCCGGCCC
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Sequence 4486
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GCTNGGAATCTTTTTCTAGNTACACTCCTATGTATTCCAAAAGCTACCTAATACTCTATT
ACCCTCCCCCTACAAACTACNGAAAAACTCAAGTCANCAACTGAGGGTGTAACGTGCCTC
CCCGGTTCAAGCNATTCTTGTGTCTCAGCCTCCTGAATAGCCAAGACTACAGGCACACGC
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GCCAANGGCNAGGACAAATTTGGACCTTGGGANGGTAAAANGNGCAAGGAGCCTNAAACC
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Sequence 4487
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AGNGCTGGGATTACAGGCATGAGCCACTGTGCCCGGGCGAAGTTTAAAGTTTTAATTCAC
AGGGATGCTNAAAAGCANGCTTGGGTAAGGNGTTTTCTTTTCTTTAAAANAAAATTCATT
TTTCAATCCCTTTTNTTTTGGGAAATNTAANGGGGTTGCTTTTCNATTTACAGATTNGAC
CAAAAAAACNTATAGGTGTCNTTCTGGTTTTTTTGATTGGGAAGAACNTTTTTTTTT

TABLE 1A
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Sequence 4488
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAAGAAAAATAAAGAAGAGGCTGCAGAATAT
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TAAGATTTTTTGAGTAACAAATAAATAAGATCAGACTCTAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAGGTCCGCGGGATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTTTAATCCCC
TGCATCG
Sequence 4489
CCCTTAGCGTGGTCGCGGCCGAGGTACCATTTAACTGGTATATAACCATCGGGGGCATTC
CACTGGTAAAAGAAAGAATGCCTCAAATGAGCATGCATACAACTCCAGTAAACACACTGC
T
Sequence 4490
CCCTTAGCGTGGTCGCGGCCGAGGTACATTGCATGTTCTGACAAGGTTTCATTTATTTCA
TTTAGATGATTTCTGCTGTTNTCACAGGTAACCTCCTTTCTCACTGCCAGTGTCCCAGTT
ATATCTATCT
Sequence 4491
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGGGAGCCCAAGGCAGGAGATCACTTGAGCT
CAGGGGTTCAAGACCAGCCTAGTAACATAGTGAGACCTCGTCTCTACTAAAAATTTAAAA
AATCAGGTGTGGTGGTGGACGCCTGTAGTCCCTACTTGGGAGGCTGAAGTAGGAGGACTG
CTTGAACCCAGGAGATGGAGGCTACAGTGAGTTATGATGGCGCCATTGCACTCCAGCTTG
AGACTGTTTCAAAAAAAAAAGCTAGGTAAGAGTAATAGGTTAAAGTGATCCCACTGGCCC
TCCCCCATCCTTATTTTTAACTTTGAAAGTTATTAGAAATACCTCAGGAAAGCTTTCTTG
AAAGGTTATGTGTGAAGTCTTTCCCTCTAGACTAGTGGTTCTCAATACCTATGCCGGTAT
CAGAATTACCTGGGGAAGCTTAAAAA
Sequence 4492
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGCACAGGACTCCCCAGAATAATGGAATAG
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TCTTAAATAGGTAGGGAAAAGATGGGCCATTCAGTATAAGTTTGGGGGACATATAATAGG
TATTTGGAAAAAAATTTAGATACATACCTTACACCTTACAGCAGGATACGTTGCAAATGG
ATTAAAATTTTAAGTGANAAAAAAANAAAAAAAANANGGTNCCTCGGCCGCGACCACGCT
AAGGGCGAATTCCA
Sequence 4493
CCCTTGGCCGCCCGGGCAGGTACACATTAGCCTCCCAGAAATGGTTCTTAACCAGAGTGA
GCTGACTGTGGACATAGAATTCAGAAGTTGGATGACAAGGAAGCTCAGTGAGAATGAGGA
GAAAGTTGAAACATAATCCAAGGAATCCAATAAAACAATTCAGTAGCTGAAAGATAAAAT
ATCCATTTTAAGAAAGAACCAAATTAAATTTTTGGAACTGAAAAATTTACTTCCAGATCT
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CTGGAAGACCAGCTTATACAATCAACTCAGTCAGACNNAANANAAAAAAAAAAAAAAAAA
AAGGTACCTCGGCCGCGACCACGCTAAGGG
Sequence 4494
CCCTTGAGCGGCCGCCCGGGCAGGTACCTGCCTCTCAGAGGTATTTTAATTGATATGTAG
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CAACGGGACTAGTGGGCACAGCTTGTCAGGCATGTTTTTAATTAGCATTTATGTAACTTT
CCTATTTCTGGGCATCCTTGGGAAGACACATTTAATTTAAGAAATTAAAAAGGAAGATTT
ATTTTTCCAAAACGCTTCCTGACCTTCACAGAATAAAAACCAATGAACCCGAGCTTCGGA
GACGACAGACTGTCGGGAATTGTAAAGATGATTTGGGCAGCGCATTGTTTGGCGGGAGGA
GCTCAGCCTTCCACTAACAGAAAAGTCTACGTCAGTNTTTACTTAGAAAATTTATTTTA
Sequence 4495
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAATTTTCTTTTGATGTTGTATCAAATTACC
ACACACTTCATGATTTAAAATAGTGTGGATGTATTATCTTACAATTTTGTATGTTAGAAA
CCCAACACAGGTCTCTCAGTAGGGTAAAATCAAGATGTCAGCAAGGCTGTGCTTCTTTCT

TABLE 1A
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GGAAGCTTTAGGGGAGAATTCATTCCCTTGGCTTTTCCATTTTATATAAACTGCCCACAT
TCCTCGGCTCATGGGCCCAGTGGGAAATGCTGGGAAGAGTNCTTCTCATGCTGTCGTTCC
CTGTTTTTCTCTTCCAAGTTTCTCTTTTTTACTTTTAAGGACTCTTGTAATTACAACAGG
TCCACTGGAAATACTCCAGGATAATCTCATT
Sequence 4496
CCCTTAGCGTGGTCGCGGCCGANGTACATTCGGNCTGAGGGCCAGGACAGTNCTTTCTCC
TGGACGGACCTGCTGCTGAAGAATAATTCTGAGCTGCTTAACAACCTGGGCAACTTCATC
AACANGAGCTGGGATGTTTGTGTCTAAAGTTCTTTTGGGGGCTATGTGCCTGAGATGGTG
CTCACCCCTGATGATCANCNGCCTGCTGGCCCATGTCACCCTGGGAGCTCCNGCACTATC
ACCAGCTACTTGAGAAGGTTCGGATCCCGG
Sequence 4497
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Sequence 4498
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Sequence 4499
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Sequence 4500
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Sequence 4501
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Sequence 4502
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Sequence 4503
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Sequence 4504
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CTCAATGGCAAAGAAAAA
Sequence 4507
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Sequence 4508
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Sequence 4509
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Sequence 4513
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Sequence 4516
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Sequence 4518
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Sequence 4520
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CCTGCTACCCATC
Sequence 4521
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Sequence 4522
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Sequence 4525
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Sequence 4526
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Sequence 4527
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Sequence 4531
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Sequence 4535
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Sequence 4536
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CTTGGCCTCCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCGCCCGGCCCCGCCAAA
GCAACTCTTATTCACTGTTGGTGGGAATGAAAAACGATGCAGCCACTTTGGAAGACAGTT
TGGCAATTTCTTATAAAACTAAACATCCCGCGTACCAGACACTCCAAGTGCTTAGAAAAT
TAAATTAACTCATTTAATTTTACTAAAAACCTGTGAGATAAGGGACTATTGTTATGCCCA
TTTTTCAGATGAGGAAAGTGGGACAGAGTTTACTGAGTGGTAGAGATGAGATTTGAACCC
AGGCAAGCAGGCTCTAGGTCTGGAC
Sequence 4537
TGGTCGCGGCCGAGGTACTTNTTTTTTTTTTNGGGGGNNGTTTTGAGACGGACTCTCACT
GTNACNCTNGCTGTTGGAGTGCAATGGCGTGGTCTCGGNTCACTGCAAACCTCCGCCTNC
CGTGNTCAAGCGATTCTCCAACCTCCACCTCCCTGGGACTACAGGCACGTGCACCACACC
TGGCTAATTTTTGTNTTTTTAGTAAAGCAAGGTTTCANTATNTTGGCCCCNTGGTNTTNA
TATNCTGACCTTGTNAACCGNCCACTCAGGNCTACNAAAGTNCTTANGGANTAACAGGCG
TGAGNCCANTGGCACCGNGGCCNANGAAATTTTTTTTATTTNTAANTTTTTAATTTTTGA
TGAAGTATNTNCGGTGCTATATATTNACGTGANATTTTCTTTTNAAATATGTNAAANGGT
NTNAATNTCAGTGACATTTCANATGGNAGGTGCAGGNGAAAAAGA
Sequence 4538
CCCTTAGCGTGGTCGCGGCCGAGGTACAAATGGCTGTAAAATGCAGTGGTTTAAGATAAT
AACTTTGGGGTCTATCAGACTGAAATCAAACTCAGCTCTGTAAGTGTATGCACTTGAGCC
TCTATAAATCTAATTTTCTTCATTGGAAAATGGATATAATAATAGCTTATACTTCAAAAG
ATTAAGAGGATAAAAGGAAATAATGTAAGTAATGTGTTTAACAGAGTTCCTGACACATTG
GGCATACTCAATAAACACAACTTGGTTTTTTTAAAAAAAGGTATCAATTTTTAAATTAGA

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AAGCATGGTATCAGATAAGTTACTCAGCCTCTCTGCTCCCCCTTTACCTCATATGTAATG
ACAGTAATAACTACCACTAGCATCATGGTACCTGCCCGGGCGGCCGCTCAAGGG
Sequence 4539
CCCTTAGCGTGGTCGCGGCCGAGGTACATTGAAACAACACCTCTTACGATAAAAGGAAAA
AGTGTGAAAATATGTGTTCCAGGAAAGAAAAAAGCACAGAACAAAGAGGTGAAGAAAAAG
ACTTTAGAGTCAAAGAAAGTATCTGCATCTGCCTTAAAAAGAGATGCAGATGCTTCAAAA
GCTGTTGAAATTGTTACTTCAACTTCTGCTGCCAAAACTGGACAAGCCAAGGCATCTGTA
GCCAAAGTAAACAAATCTACGGGGAAATCAGCAAGTTCTGTAAAATCTGTGGTAACGGTA
GCTGTTAAAGGTAATAAAGCTTCAATCAAAACAGGTAAGACTATTGGGGAGGAGAGATTT
TATTGGTTATTCTTTATTTATGTTTTAAATTCGTATAATAATTTTTAGCATCTAATACTT
GAAGAGTTTAGTAGATATTTCCTTGATATTTAAAACCTGACCCATTTTGGTTGGAAT
Sequence 4540
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTGGAAAAATA
AGCATAATTAAAAACTGTTAGATTTGGAACTTTCTATTTCATAATTAACACATATTTAAC
AAATATTTATAAAGCCTATAAATCTACAAAAAAAGATAAATAGNGNGCTGTGTAATGTTT
GGTTATATGTCTGTTTGGATTTTATAGCCTTACTAATATATACTATAAAACATTAAAAAA
TTCAGAATACAAAGCTGTCTTCCANAGAAAGCTTTGTTTAGATACACTAAAAAAAAAAAT
CAAGTAACTTATAAATAATAATGTGCTTTACAAATAACTTCAATGTAATAGATGACAATT
GTNTATTTTAGCCAAATCCATTATTCTGCTTATACAATTCATCTTCTAATTTTTACCAGT
GGAAAGAAACTTTGGAGACAGGTGAAAATGAATTTAGCAGACATATTCCTAAAAACTGGA
GAGTTTTATTTTTTA
Sequence 4541
CCCTTCGAGCGGCCGCCCGGGCAGGTACCAGGCCAACGGGCTCGGTTTCTATGGTTTTCT
GGGGAGACGGCTGAGGGAAGGTCGGCTTCCGGCGTCGCGCTGCAAACGTCTCGCTGAGGT
CATCCTTTACGGCAGGCGTCCGCGTCGCTAGCTAGTCGTTCTGAAGCGGCGGCCAGAGGA
GAGTCAAGGGCACGAGCATCGGGTAGCCATGCCTTTCTTGGACATCCAGAAAAGGTTCGG
CCTTAACATAGATCGATGGTTGACAATCCANAGTGGTGAACAGCCCTACAAGATGGCTGG
TCGATGCCATGCTTTTGAAAAAGAATGGATAGAATGTGCACATGGAATCGGTTATACTCG
GGCAGAGAAAGAGTGCAAGATAGAAATATGATGATT
Sequence 4542
CCCTTAGCGTGGTCGCGGCCCGAGGTACGGACTTCCTTTAGGATCTCAGGCTTCTGCAGT
TCTCATGACTCCTACTTTTCATCCTAGTCTAGCATTCTGCAACATTTATATAGACTGTTG
AAAGGAGAATTTGAAAAATGCATAATAACTACTTCCATCCCTGCTTATTTTTAATTTGGG
AAAATAAATACATTCGAAGGAACCTGTGTTATCACAGTAACCCAGAGCTGTATTTGGCTA
GCAATCTGCCTGTATCTCTCACTATTATCTAAAAGAAACCTTCCAATGCTTCTGTTGATC
TCAGTATTGTCAGGGGAACAGAGAAGTTGGGAAAAGATTACTGAAATATACCTTTTGCAT
TTCTTTCTAGAGTAGCTCCCATATATGGAGATGGGTGATTCTCTTGATGCCACCTTCAGA
TCCTTTTATTCTCCAGAATAATTCTTAACAGTGGTTCAAATTTCCTTT
Sequence 4543
CCCTTAGCGTGGTCGCGGCCGACGTNCCNCCAGCTNTNTGNTCTNCACANGGCTCCCCGC
CNCACCCNGCCTGTTAAAGCGCGCCGACTGGGCTACAANGCCNAACAAGGTTACNTTATA
TACAAGGATNCATGNTCGCCGNGGTNGGCGAAANCNCCACAGCNTCCTAANTGGTGCAAC
TTACNGCAATGCCTGTCCATCATGGCGNTAACCAGCT
Sequence 4544
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTNTTTTTTGGGA
TTACTTGATACTTTNGGTTTTTGGTTTTTGGCCTGGCATTGGATTTCCCTGAATACTCTT
GATTTTTGGGTTTGATTCTTGGTTTTGGNGGAAAACTGNAAAAAGNGGNGNGNGGGCCCC
TTTTTTACTTGGGTCTTTGTTTTTGTGGGGGNGCCAATNGGNTGTNAAATNTTGGTGTTT
TTNTCTCCGAGGGAAAAATTGGGATCAGGGCNCAAAACTTAANCCCCNCCCCCNCTTGGG
AANTTTTNTTTAAAAAAA
Sequence 4545

TABLE 1A
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CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTA
CTACAACCAATTCCAAGTTTTAATTTTTAACACCATGGCGCCTTTTGCACATAACATGCT
TTAGATTATATATTCCGCACTCAAGGAGTAACCAGGTCGTCCAAGCAAAAACAAATGGGA
AAATGTCTTAAAAAATCCTGGGTGGACTTTTGAAAAGCTTTTTTTTTTTTTTTTTTGAGA
CGGAGTCTTGCTCTGTTGCCCAGGCTGGAGTGCAGTAGCACGATCTCGGCTCACTGCACC
CTCCGTCTCTCGGGTTCAAGCAATTGTCTGCCTCAACCTCCCGAGTAGCTGGGATTACAG
GTGCGCACTACCACGCCAAGCTAATTTTTGTATTTTTTAGTAGAGATGGGGTTTCACCAT
CTTGGCCAGGCTGGTCTTGAATTCCTGACCTCAGGTGATCCACCCACCTTGGCCTCCCAA
AGTGCTAGTATTATGGGGCGTGAACCACCATGCCCAGCCGAAAAGCTTTTTGAGGGGCTG
ACTTCAATCCATGTAGGAAAGTAAAATGGAANGAAATTGGGTGCATTTCTAGGGACTTTT
CTAACATATGTCTATAATAAAAGGGTTAAGGTCNTTTTTTT

Sequence 4546

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGGCAGTTGGGACTTAGCGAAAATTTGGGC
TGGCCTGGATCATGAAAAGAAGCTGCTATCTTCTTACCTCCAGAGAGTCATCANCATTCA
CCATCCAACAGTCAGTCCAGGTGGCCACAATCAAAAACCCAGCAGAGAAAAAGGCAAAGA
AGCAAGCGATGTATTGAAGAAGATCCCTCATTGTGGCAAGCAGCCCATCAGGATGGCAAC
ATGGGCAGACACCAGCCCTGGCCCCACTTAAGTGGCGGGTGTCAGTCTTCTGTGTTTCTG
GTACTTGCTAAGGGCATGATCCTCTTATGAATCCACCAGAATTCAGCCATCAACAAAAAT
CCCGTGAGTGGAAAATTGTATGGATCTCTAACATGACATAAAAAC

Sequence 4547

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTATTTTTTTTTTTTTTTTTTAATTNATTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGNAAAAAAANTTNNNN
ANTTTTTTTTTNAACTAACCCCNNCCNTTTTTTTTNANGGAAAGNANNCANTTNCAAATN
GGATNTTNNTTTTAAAAANGNGNTTTAAAAANGTANCTTTNNTTTTANCACNCNNCNTNN
AACAAAAANAANNTTTTCCCCCCCCCNTGGAAAAAAAAANGNGTGGGGAATTTNTCNTTNN
TGGGNAANANNTTTTTTTTTAGNNCNNAAGTTTTTTTCCCAAAAAANAAANCCACAAAAA
GGCGGAANNGGGGAANNGTCCCNCNNNTTAAAAAAAATTTTTCCNAAAAAAAAAANTGTT
TTTTCAAAAAAAATCCTTNNNGGGGCNCCCTTTTTCNCCCNTTTTTTTTNTTTCAAATTA
AAAAAAANCAAAAANTGGGTTAAACCACCCCCCTTTGNTTGTNAAANGTTTTNCACCCCN
NGGGGGNTTCCNTTTTTTTTTTNNA

Sequence 4548

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCTGATGTTAGGTGTGCATATGTAGTTAAAT
TTATTATAACATTTCTTTGAATTGATCCTATATTATTATATAGTGACCGTCTTTGTCTCC
TTTTACAGTCTTTGACTTGTTTATTTTATCTGGTATAAGTATGTGTAACCTTGTTCTTTT
TAGTTTCTAATTACATTAAATATGTTATTTTTCTTCCTTCACTTTTGGTCTATGTGTGTC
TTTATAGGTGACATGGGTTTCTTATAGGCAGTATGTAATTAAGTCTTGCTATTTAAAAAT
TTATTGAACCAAAGTATATTTTTTAATTGGAGAATTTAAGTTCATTTACATACATTTTAT
TATTGATAGATAAGGACTTACTACTGCCATTTTGTTACTTGTTTTGTGGTTGTCTTGTAG
TTCCTGTCTTCTTTTCTTTCTCACTGTCTTTATTCATGCTTAAGTGAGTTTCTCCAGCAG
TATGTTTTAATTTG

Sequence 4549

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATGGCTGTTAAACAGATTTTTGAATTAAAC
TTAAAACCTCTTGCAATTTTTAAAAGCGTGTATCAATACTTTAAGAAAACTTTGTTGTTT
ACACAGACTCTGGTCCTGTATCATGTGATNCCCTGACAGCAACATTTAATTTTTANAATA
TCGTGATAAACAATTTTCTTTNTCAATACNNAGGTGGGACCCANTCNTCACAATGAAAAC
CTTTTTTTTNATTGAGNACCAGGNGGGTTTTANGAAAAATCCCTGCTTTNCTTANTTNTG
GGTTTAAGTTTCCTTTTTCANCTCNACNTTTTTTTCAAACCCCNCNCNACCCCCCNCTCA
AANGTGCCTTTTAATNTGTTCCTTGTGNAAATATANTTTGCTTTTTTTTNAAAAAAANNA
AAANTTTNATTGGGNAAACCAAACCAAANTTTTTTAAAAAAANTTATNGGGNTNAANAAA
TNTNTTTAACCCAACCANTTACCNAANTTTTNTTTTTACCNCCCAAAAAAAT

Sequence 4550

TABLE 1A
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CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCCTTAGATGGCTCTTGAAAATTATCCCCTG
TGCCTTCTGTGTTACACCTGCATCTTAGTTAAATAAAGTGTAGATTCTTAACCTTTTTTT
GTGCGATGGATCCCTTAGCTGTCTGGTGAAGCCTATGGATCCCTTCTCAGAATAACATTT
TTAAACCTATAAATAAAATGCACAGAACTAAGTGCACTTACATTTGAGAATGATTATCAA
GCTATTAAAAACCAAATTTGTGATACAGTAATACATAGTTCTTTAGTAGGTCATTAAATA
TCAAAAGCTACTGGTGGTGGTTTCATTGCTGTAATTTCAAAGTAGTGATGAGTGTTACAA
ATGATATTTTGCAATACCTGTAACAGCTAGATGTAACATGGTATAAAATTATCTGTGATC
TCTTTTGGTAACAAAGTCACAGATACATCTACTGCTGTTGTTATTATCTAAAGTTAGTTG
AAAAAAGTAATTTTGTGTTCACATCTCATTTAATGGACCCACTGAATCTTTGGGTTAAAG
TAATTGAACTAGAAATGTAAATAGTTATACTTTCTTACTTTAATAAAAATATAACTTATT
AAAAGCTTAAGGCTGAATACAGGGGCTCTTGGCCTATAATCTGAGCACTTTGGGAAGTNC
CGANGTAGGAAGGATCACTTTGAGCCCAGGAGTTTGAGACCAGNCCTGGGCAACAATGGT
GGAGACCCTGTCTNTACAAAAAATTTAAAAATTACC

Sequence 4551

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATTCCCTTTGTTACTGCAGACAATNNN
TAATAGAAATGTTTAAAGGTGCCNTNNTTTATCAAATAAGGTCAGATGTTCTCACCCTGT
TTGAAATGGAAACTAGGAGTGGATTCCATTAACTCTCTTGTTCACACAACACACACACAT
GCACACACGCACACACACACACATCTCAGTGGTTGGCCAGAGCATTCAACAAATAAGATT
TGCTCCAATCCCTGTTTTTTAGCTATGAAAATATGAGCAGAGAGTTCATGTGATATGTAGA
CAATTACCGGGCCAATCTGAATACAACCACCCAACTCATCAACCAACTAACTAACTAGCC
ACAATCTTTGAGCACTCAAGTAATTTT

Sequence 4552

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATACAAACTTTGACTTTTGTGAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAANTATTTTTAAAAAAAAAAAAAAAATTTANGGNGGGNNGGNTT
TTTTTTTTTTTTTTTTTGNGAAAAAAAANAAATNANNTTTTTNAAANTCNNTGNNAAAA
AAATTNNTANCNCAAANNTNGGGTNCTAANATANTANTNACCCCCCTTNTTTTNNNNAAA
TNAAAANANNCCNCACACNCTNTTTTTTTTTTTTTTANTNGAGGAANAAAAAAANTTTNNA
GNNNGTGGGGGGGNTTTANAAGNANTAACTNAGACACATNGGGGGGGTNTNTTTTTAATN
NNAGACCNGTTTTGNAACNAATGAGTTGTGAATNAAATTTNAAAAATTGTTTTCCANTAA
AAAAAAAATN

Sequence 4553

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGTGTCCGCACAGAGGTCTGCGAGGAGA
GAGAGTGTCTTCATTCTTTCCGCCNTCTTGATTCTTTCTCACTGACCAAGACTCAGCCGT
GGGAAATATGAGTTGAGCTTTGTAAGAGCAAGATCCCAATCCTCAGAAAGAGGAAATGAC
CAAGAGTCTTCCCAGCCGGTTGGATCTGTGATTGTCCAGGAGCCCACTGAGGAAAAACGT
CAAGAAGAGGAACCACCAACTGATAATCAGGGTATTGCACCTAGTGGGGAGATTGAAAAT
CAAGCAGTGCCTNCTTTTTAAGG

Sequence 4554

CCCTTTCGAGCGCCGCCCGGGCAGGTACGAAATGACCACCATGAAAACCTGAACTTGCAT
CACCAGCTCCACCATAGCCATGTCCTCCCATACCTGGAAACACAATTTGCCAAGATTATA
AACTATTACAGATACAAGTAGGGAAGTATACATACATACTATACAAGGTATAAAGCTCTA
TATAGGAATGCACTGAAATTTGTCTGAATTAACTTTATACAAGTTTCCTATATTACCACT
AAGAGCTTGCAAAGCAAATACTAAAATTTACCTATGAATAAAAATGTCTTTAATATTTAT
TTTACCTCTTCCATCTCTCATTCTGTCATCAAAGCCATCATTCCCATAGCCGTAATTATT
ATAGCCACCATAGTCATCAAAACCTCCATAACCTGTGTAATTTAAGGAGAAACACATGAC
TACACACTTTCCAGAGATAAATNTTATAATTTAGTTTACAAAAACATTTTGTGGTAACAG
TCTGTGTAACTTGATTGCAAGTTTGCAATTCCCAACTTAAAACCTATGAAAAAAGCAGTC
AACCGTGATGGAAATTTAAAATCTCAGAAAGTTAATTAAGTTCAGACATGTAAATTAAAT
TTCATCCCTAGGCAAAAAAANGTCAAAATATGCCAACATCTTATTTTTAA

Sequence 4555

TABLE 1A
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CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTNTTCTTNTNTTTTNTTGGCCTAAGNCA
AACCNCAGAACTTTATTNNGGNAAANGANNGCATTTTTTNGTTGGCAAACNATANNCTCC
TATGAAATACTCTTAGAGATGTTTATNCTGAGCTAGTTTTTTTTGCGGGGAGGTGCTGTT
TACATGCTATGTTA

Sequence 4556
CCCTTAGCGTGGTCGCGGCCGAGGTACATGCCAAAAATGCCTGAATAAGCTTTGAAATGT
AAAACAAAAATGTTTTAAAGAAGTTTAATTGCAGTTGNCAATATATACTTAATATGGCTT
GCATTTTTTTTTTTTTTTTGAAATAACATTGTGACTTAAAGGATTTCTAGGTCCTAAAAT
CTGGAAAAGGGATCTGGAAAAATTTGGACTCCATGAGTAGTTTGGATTCAATCTCTNTGT
GCTTTTTTTTTTCTTTATAACATGAATGGGATGGG

Sequence 4557
CCCTTAGCGTGGTCGCGGCCCGAGGTACAGCCACAAATTCATGTCTTCCCAGAATCTATG
AATGTGGCCTTATTTGGAAACAGAATCTTTGAGATGTCATCAAGTTAAGAAGAGGTTACA
CTGGATTCAGGCAGGCCCTAAATCCATTATGACCTGTGTATTTGTAAGAAAAATTCAGAC
ACAGAGATTCAGACACACAGAAACATTGTTATGTGGTGGCAGAGGCAGATATTGTAGTGA
TGCATTTCCATGCCGGGAAATGCTAAGGATGGCTGTTAATAACCAGAAGCTGGGAGACAG
GCATGGGGCAGATTCCCACTCTGGATGCCCAAGAAAGAATCA

Sequence 4558
CCCTTAGCGTGGTCGCGGCCGAGGTACACATTTAATGATGGTCCAGTATTCTCAAAAAAA
AAAAAGCCTACTTTAAAGACTAATCAATAAATTAAACAAAACAAAACCCACACAATGTTC
CCCCACCCCCCAAAGCTAGCAGTTTGTGAGTTGTATTTATATTGAAACCTAATGTTTTAA
AAATAGTTCTGGTTCTCCAACCACCCCATCCCACCCCGGGTATGCAGCAATAGTAATCAA
TTATTTTATTCTACCCTCCCAAAAGATTATTAATCCAGTGTTCTTTAGCTTTTTAAAATA
TAAATTGGGAAAGTGTTATTAAATAAGCTTTTTTTAA

Sequence 4559
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTGGTAGTGAGAGAGTTTCACTATGTTGCC
CAGGATGGTCTCAAACTCCTGAGCTCAAGTGATCTGCCCATCTCAGCCTCCCAAAGTGCT
GGGATTACAAGTGTGAGCTACTGCATCCAGCCTGCAATTGGTTTTGACTGCACAAGAAAA
AACATAAAAAAGGTTCCATGAACCTTTTTATAACCTCTTATAATTGTTACCGGTTTTAAT
TTCTTTCCTCAATTTTTCTATGTCCATTCAGTTT

Sequence 4560
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGACAGA
TGAACAGACTCAGGTTGTGATTGATGCAGGAGCACTCGCCGTCTTTCCCAGCCTGCTCAC
CAACCCCAAAACTAACATTCAGAAGGAAGCTACGTGGACAATGTCAAACATCACAGCCGG
CCGCCAGGACCAGATACAGCAAGTTGTGAATCATGGATTAAGTCCCATTCCTTGTCAGTG
TTCTCTCTAAGGCAGATTTTAAGACACAAAAGGAAGCTGTGTGGGCCGTGACCAACTATA
CCAGTGGTGGAACAGTTGAACAGATTGTGTACGCNGGTCCAAGCAATACCATAAAAGCTT
GAAGCAAAAACAGCTTTTAAATCAAAAAGCAAAATTTTTAAAATTAAAACTTTTAGAGAA
AAAATAAATTAGGCATGAGAATAGTAATTATCTCTGTAAGTTTCAAGTAAGATAAGACTT
AGGTGATTATTGTAAAGATAAAAATGGAAATAATGGACATAATCATT

Sequence 4561
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCATTTGGCTTTCTCTCTCTTTTCTCCCC
TCCTTCTTCCCAGGCCTGGCTGGCTGGTGCCTGACACCATTTGGGGCTCTGAGAGGGTTG
TGGCTGCCAGCCCCCAGTCGCCAATGCCTGGTCAGGCACTCGTATCCCCTGTCCTGTTCA
CCATTTCTCCTTTCTCATTGTTCTCATAATTTGNCCTGCTTAAAACTCCTAGGGTCTAAA
GGGACCCCCTGCATTGCTTGCCTTTCCTTTGCTAGACACCANANAAGAGGCTAAAAAAGT
GAAATGTGGCCTGGTGCANTGGCTTATGCCTGTAATTCCAACACTTTGGGAAGGCAAAGC
AGGCAAAAAACTTGAAGGNAAGAGTTCAAGGGCAGCTTGGAACAAAACAACGGAATCCTG
TCTTTTACTTAAAAAATC

Sequence 4562
CCCTTAGCGTGGTCGCGGCCGAGGTACACCACCAAAGACCAATAATAAAAAAGAAGGTTC

TABLE 1A
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CAGGGAGGGCATGACCTCTGAAATTCCCCATGATCTTTGGGTGTTTAAATCCCATTTTCC
CTTCTGAGTCATTGGTCATCCTTGGTCTCAGTAGATCAGGCACGTTAGAACTGTGGCAGA
AGAGATAAGAATGAAGCANCCAAAATTGAGCCTTTGCTTCTTAGGTAATGCTGAAAAGTT
TCCAACTTGGTCTGTTTACTCAACACTTTATTTTTNCCACTTTGCCAGCTTTAAAATCAA
GACAGCGGCTGGGCTTTTGTTGTNGCTGTTTCTGTTCTTTTGATCCCAGNGCCCCATGAA
AATTTAAACCNGTGTGTTGGATGGGATCTNGCCACGTCTCCATTGGGTGGGGGGAGGAAT
TNTTAAA

Sequence 4563
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTGTGGCTGATC
CAGGCGTTTGCCCATGTAGCTGGAATCTTTATCTCCGAGGCAGGGNNCTGGATGACAGGG
TATAGTGCCCCAGGCCGAGCTTCCTCTTAAACCACTATTCCTGACAGTCCCGGTGACTGA
TGAGGCTTCAGAGACTCCACCACTCGCTAGTTCCAACACAGCAAGAATTTTTTTAAAAAA
CAAAACAAAACAAAAAACACACACCAAAGGAAAAAAAAAAAAGGGCGAGGAGTGAGATCT
GTAGAAAAAAACACCCACACACAGCCTTCCCAGATCTTGCCTGGCTTCCCCCAGCTGCCG
GGGTCCACTTGGGATGAGGCAGTTTGTTCTCTAACCAAGGCTGTCTGTAGTGATGTCAAT
TGCCAGCGTTCGTAAAGGGGGGAAAAAAAATCAAAGTCCTTTTAGCACAACTCCGAATCCT
TGCAGATCAACTTCCTGTCTTCTTGGGTGTCTCTTTCCCCACCTTAAAGAAAAAGAAAAA
AGAGAGAGAGAAAGAGAAAGGAAAGAAAGGAAAANGAAAGAAAGGAANGAAAAAAGAAAG
GGGGGAAAAAGNAAAAAAAAAGAA

Sequence 4564
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTT
TTTTTTTTTTNTTCTTTTTGAAAAAGGTATCAAAGGCCTTTATTGATTTAATTTTCCTTT
CAACTTATCAATGCTATCACAAATTNTAAGGAAACAGGACTTGNCCAAATAACNATTNNC
CCACCATGAACATGGGGCTTGGGAAGACATAATCTACAAGCTACATCATATATTGAGGCT
TNTAANAANAATCGNCTCTTNATNTTTCAAAAGCATANCTNNAAATTNGNCCNTNATCTT
GATTATTTTGAAAAATGTNAAGCACATACTCGCNCTTNGATAANNGNATGTTCTANNNCN
CTTTNTGNANAAGTANTCNANCCTAATTTGGNGTTGANAAANAGCNCTTAATAGATTCCT
TTTTTTGTTAAATGANCTNATGTTGCCCCNTTAAAAACTTTGGNNNNTGTCTCAAAANAA
TAATTNNATACCAANAGNTCTNTGAAACANNTGCCNATTTGCTTTNTNAAGCAGATAAAA
ACAGAAATCATGNANGTTAAGTCAATTGANAAAAAAAA

Sequence 4565
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTAA
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TGAGATACCACTTCCAAGATTAGGTTATAAAAATTCTTAGGCGTCACCTTCTCTCACTCA
TTTGCTCAGAGGGAGGCAGATGCCAAACTGTGGTGCCCTTTGGAGAGGCCCATATGGCAA
AGAACTGAGAAAAGCCTNTGGCCAACAGCCAGCAACAATTGATTTCTTCAGTCCAAGAGC
CCCAGGAAACTGAACCCTGCAAGAGCCACATTGAATGAGTTCAGAAACAGATCTTCCACC
ANTAGAGCTTCCANATGTGACTGCAACCCCAACTGACAGCTTTGACTACCACCTTTTTTA
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AAAAATGTTTGGNGGCTTAAAGNCCTTAAAATTCTGGGNGCAATGGGCTTNTGCCAACAA
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GTATTAAATTAAAAATTTGGGAAAGGCNAAAAAAAN

Sequence 4566
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAACACTTCCAGCAAAAAATCTTTATTTTT
AAGAAAAAAGTATTTNTTCTCATTTTCTATTTTTGTCATAAATTTTTATTCTTTCCAGTG
GAACCAAAACTTGAACTTCCTTTTGGTTGATACATGCCCAGCAAGACTGATCAAAGAAAA
GATGGCACAGATAAACAGTGTTAGAAATGAAAATGGAAACATAACCATAGATAACTACAG
ATTAAAAAGATAAAACATTATACAAATAAATTGAAAATTGCATGTAATAGATAAATTTGT
GGAAAAATTTAACTTGCCAAAATTGATGCAAGAATAAATAACTTGAATAAGATTCAAGTA
AATTGGATTTGTAGGTTAAAATTTTCTCAAAATGAAAACACCAGGATCAGATGGAGTTAT
TCCAGACACCTAGTAACAAATTATCTCTTGGACTAATCCACAATATGTTAAAAAAAAAAA

TABLE 1A
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AAAAAAAAAAAAGGAGGCAATACTNCCTACTCATTTTANGAGGCTAGCATAACCTTGATA
GCTATTAAGGCCAAATTNGAAAGGCAGTTNTNGGNCCGTCTTACTGATAGCATAGNGTAA
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CTTTTCCTTT
Sequence 4567
CCCTTAGCGTGGTCGCGGCCGAGGTACAAATNGNGTTTTACCNTGTNGGCCAGGCTGGAG
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CAGGNATGAGTCANNATACCNNNCCGNATATATGNANTNATGAATTNTAATATNANNTNC
ATGAATATTNTTAACNTACAGAATTCACTATGATCTTTATGAC
Sequence 4568
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CCAANATGGTCTCANTCCNCTGACCTTGTGATCCACCCACCTAGGCCTTCCAAAGTGCTG
GGATTACAGACGTGAGTCACCGCNCGCAGCCCGCTTTTGTGGTTTCAAAAGTTCTCACTT
GCTAATGTCATGTTAGAGATACAAATTTAAAGTATGCTAATATCANTGGAGAGAACAGAT
GTNTTAATCTATAAGACACTTATACATGCACTAAANAAAAGTTGACTACTATACTGAANT
CCCTTATAAAAAGGGAGTTGTTAAGGATAATGGAATGTGGATTGGGCTCTTTCANAGACT
CCATACAGGTNTATTTAATTANCAAAGG
Sequence 4569
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGCTGTGTTTTAATATAATATCCAGG
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TTTTTACATATTTTTCCAGCACACAAACATACACAATTTAACTCAAAGCATCTTAGCAGA
GCTTAATTAAATGGATAGATGTCTGTTCCCTTTGCTGGACGCCAAGAATACAAAAAAGAA
CAAGTGACAATTTTCTCCGTCTTAGGGAGAAGAGACAGCAGAAGTGTAAATGATCCCTAA
AGAGTGATAGATGTTATCATGAAGCCACAGGAGGGGTGCCAGGCTGCACAAAAGAGACAC
TGGATGCTTCTTGGTAGTAGAGGCAGTGGCTTCCAGCCTTGGGGCTAAGGCTTGTAGGGT
GAATTGGAACTTTTCAGATGAGCAAGGCAAAGAAGGGACCTTCTAACATTCCTTGGATGG
AACATTTTTGACATTTTCC
Sequence 4570
CCCTTTCGAGCGGCCGCCCGGGCAGGTACACTTTATAATAAAATTGTAGTAAAATACTGA
CATTNGNNNGTGATNAANNNNGNANGAGTNCATGTAAAAATCATGTTATAGCATGTAAAA
TTTAATTNGAAAAATTCATAGCTCACAAAAGTACCTCGGCCGCGACCACGCTAAGGG
Sequence 4571
CCCTTAGCGTGGTCGCGGCCGAGGTACAAAACACAACAAAGGTTCAAACATCGAGATGTT
CCCTTAGCAAGGCTGAAAATTTCAGTCTCTGGTATTTGGAATTTAGGCTGCAGTCCTTGT
TTTTGGATGGATCACTGGGTGTGTGGCACAGTCCATGCTTTTAACCAGATTTGAACAGAA
GAATGGCCACTTGGCCCAGGTAGAAGTAGATGAAGTGTTTGGTTTCATGTGTCACATAAC
TACCGAAGTTCCTCCCCACGATGCAATGCCAGGTGGGATTGTACATCATTAATAGGTCCG
GTATGTCTTCTCATTTACTGGCAACTTCTCCAAACTCATCTAGAGTTTCCANACCATCTA
TTACCTTTCCAAATACNGTGTATTNCATGTCCAAATGTGGCTGTTTGCCATAGGTGATGA
AGAACTGAGATCCATTGGTGTTCNGGCCATTATTAGCCATAGATTCAACACCTTTAACAT
TTGTGCTTAANAATATTTCACTGTATTCATTCCCTCAAACTTTCTTTG
Sequence 4572
CCCTTGAGCGGCCGCCCGGGCAGGTACCGCCGTTCTTGTCACCACCAACTGGTTTTGTAA
CAGTTGCGAGAACCTTCTCCTTCTTTTTCTTTTCAACCTTGGATTTAGCGGCTGAGTACA
AGCCAGAATTACTATTTCTTTGACTTATTATTAGCTTGGCAGTTGCTTTTGATTTGATTG
TTTTATGACATGGTATACTACTATATTTACTCAGTTTGAAACTATTCATTTCTACACACT
ATTTTTAAAAATTGCCTACTAGGTGAAACATTACAATAAAACTACCTGTGCTGAAATTTG
GGGGAAGTTTAGGTCCTTTAAAAAAACATATTAATCATTGACTACATCTATGATAAAAGT
GCTTATTTTGGTTTACTAAGATAATGCAGTTGGTGGAAATGATAAACGTTTTAAGTGTTA
ACATCCTTTGAATGCGTTGGATTTCAGAGAATAAACATTTTGTAAAAATCACTTGGTAAG
GATTATAAACTTAATTACTGCACTTAAAATGAAACATTACTTTTTTTAAACAATGTGTCA

TABLE 1A
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CAAATGTANGTCTGTATTACTTGNATGCTTGGGTGACTTACTGGTAGTCCAGCTCTNAAA
ATTTAAANGGTGTAATTGAAATCAAGAAAAGAACCTTCTTTTAAAANAAAGCAAGTATAT
TTTTGCTTTTACCTTCAAATGGTANTTNAAGNAGAAAATTTAATTTGNAGATATAACCNT
TAA

Sequence 4573
CCCTTNCGAGCGGCCGCCCGGGCAGGTACTGAAGTCTAAGAAATCTACATCAAACTGAGC
CTTTTGTTTTCTTTTCAAAAACAGATGAAAAAACCATCTACCTNCTCTTCAATGAGACTG
AGAATTTTACANTAACAANATCTTAAACCTGGTTAGCNTAATAACTTGCAGCTTNCTCAN
CCCCTGGTTTACAGATCCTGAATCAAGTTCNGTGGGAGGTTT

Sequence 4574
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGACTTGAAATTATAATATAGCCTGTCCGT
TTGCTGTTTCCAGGCTGTGATATATTTTCCTAGTGGTTTGATTTTAAAAATAAATAAGGT
TTAATTTTCTCCCCAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGAAAGG
G

Sequence 4575
CCCTTAGCGTGGTCGCGGCCGAGGTACACTCTAGCCTGGGTGACAGAACAAGATCTTGTG
TTAAGAAGAAAAAACAAAAAACAAAAAAAACTTGCCAATCTGATGTGTGTGAAATGGTAG
TTCATCAGTTAAATCTGCATTTTCCTTGATTTTTAAGTATCTTATTTTATATTTGTTCTA
TTGGTCATTTAAGTTTTCTTTTTGGCAAATTTCCTATGCATATTCTTATTTTTTCTGTTG
GATTGTCTTTTTCTTATTCATTTAAGTTTGTTGTGGTGCCTTTCATTGAGCAAAAACTTT
AAATTTTAATGTAGCAAAAGATATATTTTTCTTTATAATTTGTATGTTTTATGACTTGTT
TAAGAAATTCTTCCTTAATGTCTCAACATATTCAATTTAATAATGTATCAGAAACTGTCC
TGCCCGGGCGGCCGCTCGAAAGGGCGAAT

Sequence 4576
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GGGCATTTTGGTAGGTAAAGTGTGGTGGACGTCCTTATTATTATTTTTGAGACAGTGTCT
TGCTCTGTCCCCCAGGCTGGAGGTCAGTGGCACAAATCTCAGCTCACTCTAACCTGCACC
TCCCGGGTTNAGGTGATTCTCATNTCAGCCTCCCAAGTAAGTGTGAACTGAGGGGCCGTT
GTGCCACCACCGCCTGGCTAGTTTTTTTGTATTTTTTAAGTAGAGACAGGGGTTTCACCA
TGTTTGGGCCAGGGCTGGGTCTCTGAACTCCTGGCCTCAGGTNGATCCACCCACCTTANC
CGCCCAAGGTGTTTGGGATTTGCANGCATTGAGCCACCATGCCCGGCCCNT

Sequence 4577
CACAAGGTAAATTGTCTCACCTGTGGAAGTTTCAGAGGATTCTGTTGAATTTGAATCANT
GCCAGTTTTGCTTTCAAGGTCTGTTTGGCAAGAGTCTCATCTCTATTTTCTTGTGCTTGG
CTTTCTTCTTCTTCCTCTTCACCATCTGGAAACTCCCACTGAGACTCGCCCGACTGTTCG
TTTACATAGAAATACCGTCTATGATCCCAAGTTTCAGATGTCCGGACTCCAAGTGCCANT
TTCTTCCCGGTGTTCAGCCACTGTGTTAATCCTCCACAGGGAACTGCTACACGCTGCTCT
GGTGAGGCATTCCACCGGGGCAATTTCCTACCCGGGAGTGCTCTTTG

Sequence 4578
CCCTTGAGCGGCCCGCCCGGGCAGGTACCAGGGCAAGTCAGACATCATGTCAGCACCCTT
TTCTCTTGTCTTTCTTGCACATATTCATAGACAAATAGTTTGGAAATGGGCACTTTAGAA
GCTAAACCTGGAATTCTGCCACCTGTAATACAGGCCAAGCAATGAAATCTGATAGGTGGA
GTCAAAGGGGTCCACTTTTGGAGGTTCCTGTGTCACTTCTCCCCCTCCCAGATGTCTCCT
CATCCTGAGTGTCATCACCAAAGTTCTTGGGCCTGTACCTCGGCCGCGACCACGCTAAGG
GnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCTAGTNGGATCCCGAGCTCGGTACCAAGCTTTG
GCGTAATCATGGTCATAAGCTGTTTCCTGT

Sequence 4579
CCCTTGCCCGGGCNGGTACCCAAGTGTTTTGTCAGATACTTTGCATGGAAATACCTGCAG
TTTGGGAGACTGGTGTGTATTGAATGCTTCTTTTAGCATATTTCAGGTTGGACTGCGATG
CANTTCTTCAGCTCTTCATTGAAACGCTGCTCCACAACACAAATGCCGGCCAAGGCCAGG
GAGATGCAAGCATGGACTCTGCAAAGCGGCGGCATCCCAAACTCCTGGCCAAAGCCCTTG

TABLE 1A
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AGATGGTTCCTTTACTGACGAGCACAAAAGATTNGGTCATCAGTCTTAGTGGAATACTAC
ATAAGTTGGATCCTTATGACTATGAAATGATTGAAAGNTGTCTTGAAAGTTATTAGAACG
AAGCTNATGAAAAGATAACCAATATTAATATTAATCAGGCATTGAGTATTCTGAAACATT
TGAAAGGTCATACCCAAGAATTTCTTC

Sequence 4580
GGGGNCCCGNAAAATATTTGGGGGGGGCCCCCTTTCTTAAGATNAGGCCATNGGCTTTCC
GGAANGCCGGGCCCGGCCCCAANTTGGTTGGAATGGGGAATTATTCTTTGGCCAGGAAAA
TTTTCCGCCCCCCTTTTTACCCGAGGCCCGGGCCCCGCCCCC

Sequence 4581
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGATTACTATGTGAACCCATGTTTTCATTTC
TCTAAAATATATAAACCCAGGAGTGTGAATGCTGCGTCATGTAGCATGCTCAACTTTATA
AGAAACTGCCAAGCTGTTTTCCCAAGTTAATTTTAGGAAGTCAAATCAATTGATTTTTTC
ACGAAGATGAAGAAAGTTTTATGCAACTTTCTTCATTATTTTGCTGTCATATAAAAGTTA
ATAAATATTCACTTTTATTTTCTTCTACTTTTAGGGAATAAAAAACATTTAATTTTAACA
CATCTAGAACTTATTTTGGTGTATGATGTAAAGCAAAAATGTAAGGTGAATTTTTTTTTT
CTCAACAGCCAAGCAATGGTCTTAATCCCTTTTGTTGAATAAATCCTTCCCATACTAATT
AATTTGTAATAGCTTCTTTTTAATACAATTTAATTCTTAAATGAAAACCTGAGTTATTCT
ATTCCTCTGNGCTGAGGAGTCAAAAGTTCCACAGGTCAGATTTAACATTCCAAGCCAAAG
GGACCACCTATAATCCCAGCACTTTGGGAGGCTGAGGTGGGCANAATGCTTGGGGNTAGG
GAGTCAAGAACCAGNCTGGCCAACCCGNGGAAAACCCCNCCTTTCTTAAAAATAAAAAAA
T

Sequence 4582
CCCTTAGCGTGGTCGCGGCCGAGGTACATGACTTAGATCTCAATATAGTTGTTTAAAACA
AAAAAATCCATGTGTATGGAGATGGGGAGTGGCTGGAAAAAGCTTAACCTCCCAATTAGG
CAAAAGACAAACAGGATAGGGAGGGGGACTAGGGGCTTGTGAGTGGCAATAGCTGCAGCA
GCAGCCCTGGCAGGACAGCCTGTGGGTTACAGACCGCCCTCCTGTCAATGAAGTCAAGTC
CTCTGCTTCCTGAAAACCGCCTCTTTTTTCTAACAATGTTCTTTCCCCCAAACTAGGAAG
ACAGGCTGATGGTAAACACAAAGTTCTCTGAACCAAAGCCTTATATGTATGTTTCTGAGG
GGGCTCTTTATAACCTAGTTGCAAGCAATCTGAACACAGCCCGGCGAATTTCCAGCTTTT
GAAACTCAGATTTCCTTTTGCGAC

Sequence 4583
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTGGTTTTTTTTTTTTTTTAACTCCACT
GGGTCAGTGGATCACACCTGTGATCCTTGCACTTTGGGAGGCTGAGGTGAGAGGATTGGC
TGAGACCAGGAAGTCTCCTGGGAATCTTCTCGTCTCCTGTAACCCAGTTNACGACAGACC
CTTGGACTTTACTATATTGGAAAAATCTACATAAAACAATGTCAGTGTGTCAAAGCATTA
TGTCTGTCACAAGCTTGTGAAAGGAAAATAAAAATTACTAAGCCAAAGAGAAAAGTNAAG
GCTGGGAACTGCAGCAGACAAACCTGCCTTCCATTTTATTCTTAAACAAGATAGCTTTGA
AGGACCAAATAAAAAAAAAAAAAAGCTTNCATANAGGCCGGGCCGGGNGGCTTATGCC

Sequence 4584
CCCTTAGCGTGGTCGCGGCCGAGGTACTATTACCTGAATGCTTCTATTCCTTTTTTGATC
TTCGAAAAGAATTCAAGAAATGTTGCCCTGGTTCACCTGATATTGACAAACTGGACGTTG
CCACAATGACAGAGTATTTAAATTTTGAGAAGAGTAGTTCAGTCTCTCGATATGGAGCCT
CTCAAGTTGAAGATATGGGGAATATAATTTTAGCAATGATTTCAGAGCCTTATAATCACA
GGTTTTCAGATCCAGAGGGAGTGAATTACAAGTTTGAAAGTGGAACTTGCAGCAAGATGG
AACTTATTGATGATAACACCGTAGTCAGGGCACGAGGTTTACCATGGCAGTCTTCAGATC
AAGATATTGCAAGGATTCTTCAAAG

Sequence 4585
CCCTTAGCGTGGTCGCGGCCCGAGGTACCATGATCTGCAGGCTCCGGATAACCAGCAGAC
TAAAGACATCTGGAAGAAAGTGGCAGAAAAGGAGGAACTGGAGCAAGGATCGAGGCCAGC
ACCAACCCTGGAAGAAGAGAAAATCCGATCACTCTCCAGTTCTTCAAGAAATATTCAACA
AATGTTGACAGATTCAATCAATCGTATGAAGGCATATGCATTTCACCAGAAGAAAGAATC

TABLE 1A
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TATGAAGAAAAAACAAGATGAAGAAATAAATCAAATAGAAGAAGAGAGAACGAAGCAGAT
TTGTAAGAGCTGGAAAGAAGACTCGGAATGGCAGGCATCTCTGCGAAAATCCAAAGCAGC
TGATGAGAAGAGACGCTCCTTGGCTAAACAAGCACGAGAAGACTACAAGAGGTTATCCCT
CGGGGC

Sequence 4586
CCCTTAGCGTGGTCGCGGCCGAGGTACATGGATGGGAGCAGCTTCACCAACCCCTGCAAA
GTGACTCTGAAGAAGACGACAAGCCCTGCTCCAGTCACACCCGGAAGCTGACTGGTCCAC
GCACAGCTGAAGCATGAGGAAACTCATCGCGGGACTAATTTTCCTTAAAATTTAGACTTG
CACAGTAAGGACTTCAACTGACCTTCCTCAGACTGAGAACTGTTTCCAGTATATACATCA
AGTCACTGAGAGAACATCACCACCCTGAAGCCAGAGACTAACACTTGCAGGACTCAGCAG
GACTATTTAAGAAACAACTGAGGCA

Sequence 4587
CCCTTAGCGTGGTCGCGGCCGAGGTACCCAAGTTTTAAACTTAGATGTGCTTCATCTTAG
TGAAATTTAATTCACAAGGAATCATAAATTGTGTTTTTGAGGCTGGGCGCAGTGACTCAC
ACCTGTATCCCAGCAATTTGGGAGGCCGAGGTGGGCAGATCACTTGAGGTCAGGAGTTCA
AGACTAGCCTGGTCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAGTCGG
CATGGTGGTGGGTGGCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGAAGAATCTGAGC
CAAGATAACACCATTGTACTCCAGCCTGGGCGACAGAGTGAGACTATCTCAAAAATAAAT
AAATAAATAAATAAATAGTATTTTTGAGCCTTCAAGATACAAGTTCCTGAATATTCTAAT
TTAAATTGGTATAATTGGATTACCTAATATTCTTTTCAAGACTCCTGATGTATTAACTTC
ATGTTATTGNCACTTTTCAAAAAANGAATTTTTTTCANGAGTTAAATAAAGTCAAGTCTT
TTATATNCAAGGGTTTCAAACCCCCCAGATTAAACCCACCCCAGATCAAAAAAAAAAAAA
AAAA

Sequence 4588
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGAGACGGANTCTC
GCTCTGCACTCCAGACTGGGTGACAGAGTGAGAACCTGTATCANANAAANAGGAAANTGN
GGATATGAGAGAGAGGGAGAAACCTATGAAATTTAACAACCATTTCTGCTAAAATCTNTC
AGTAAACACAGAATANATAGGAACTTCCCTAACTTGATAAAGTGTATCTACCANAAACCT
ATANCAACCTGCATATGAAAGAGGGATTTAAAAAATTTCCATTAAAAGTCTCAAAACAAG
CAAANAAGGACTATTCTACATTCCCTTGGANGTGCTAGCCCAAGGCAATGGNGATATCNA
NNACCNCCCCGAGCNCAATTAAAAATGGGGNAAAATNANCNATTNTTTGNGGCNATNTTT
TTNACTTANAACCCNGGNATTGGGCCAACNTTTTTTTGTTTAAGGGGCNAAAAAANAANT
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AAATANCCTNNACCCAACCTAAAAACCCTTTTTTTTTNNGGGGNAAAAATNTAAAAAATG
CCTCAAAACAANAGTTTTTNNAAAAAATTTCNTANAGGNANAATNANGGGNAAACCCTNN
NNTTTNTTGTTTTNGGGGAAAAAA

Sequence 4589
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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTTTTTTTTTTTTTN
ATATNTTTTTTTTTTTTTTTTTTTTTTTTTTTNNTTTTNAAAAAAAAAAAANNTTTTTTTT
TTNNGNNNNNTTTAAAAAANTTANTAAANAAAAAAATNTGNNGNGGGGGGAANTTNTTNT
AAAAAATNTNTATTTTTNNCTATNTTTTCCNNGNGTTTTNTTAATAAAAAAANNNNNTTT
CTAAAAAANATTTTTTTTTTTATNTTANANNTNNNNNNNGGGGTNTNATTTNAGATTTTT
TTT

Sequence 4590
CCCTTTCGAGCGGCCGTCCGGGCAGGTACATGTGGAGGCTGGAATCTGCTCTGGTTGATG
TTGTAGTGCGTGAATGCCTGGGTGGGGTTTGAGCTGTACTTTNATTTTTTTTTTTTTNTT
TTNGNGAAATTTTTTTTTTTTTTTTTTTTTTT

Sequence 4591
CCCTTAGCGTGGTCGCGGCCGAGGTACTGCTAAATGATAACTTAGATGCAGGGGCCATCA
TGAAAATATTCATCCCATATCTTACATTAAGCAAACTACTAGCAACTGTTTGTTAAAAAG

TABLE 1A

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TATAAATGAATAAATCAAAATAGGACAGATAGGCAGTGTGGGAAGCTAAAATATGGAAGT
GTTATTGCTTTGCTTTATGTGGTATAATGATCTGATTTTATCTTTCCCAGCTCTCCCAGG
AAGTATGCAGAATAATATTTATCTCATATTGNGGGGTGTGGCAATCAAGACAGAGGGGCT
AGATGCTTTACCTAAA

Sequence 4592

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACCCAGTGGCTCATATTTAACTTCCCCCAGC
TTCCCAATTCAAACTGGGGGGAAAAAAACTAAATCATTGGGAGTTACTTGCCAACTTGGA
AGTTGATATTTCTTTACTTTTTCCCCGCGTACTCTCCTTCTAGTGAAGGATTGTCACAGA
GTTTCACTGGATGAAACTATGACCCAGTATTCTTACTGTATTTTACATATGCCTGTAAAT
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AAGAAAGAAAGAAAGAAAG

Sequence 4593

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TGACTGATTACTGGGTTTTGATCTTCTTCAACCTCCTCTTCACGTCTGCCCCTCTTGTCA
TTTATGGTGTTTTGGAGAAAGATGTGTCTGCAGAGACCCTCATGCAACTGCCTGAACTTT
ACAGAAGTGGTCAGAAATCAGAGGCATACTTACCCCATACCTTCTGGATCACCTTATTGG
ATGCTTTTTATCAAAGCCTGGTCTGCTTCTTTGTGCCTTATTTTACCTACCAGGGCTCAG
ATACTGACATCTTTGCATTTGGAAACCCCCTGAACACAGCCGGNTCTGTTCATCGTTCTC
CTCCATCTGGTCATTGAAAGCAAGAGTTTGACTTGGATTCACTTGCTGGTCATCATTGGG
TAGCATCTTGGTCTTATTTTTTATTTGCCAT

Sequence 4594

CCCTTAGCGTGGTCCGCGGCCGANGTACCATGGAAGGGGCTGGGGCTGGGGAGTGGGCCT
GCCAACANGCAGGGGTCATGAGAGGTTTTCTGGAACTAGCCTCAGCTTCTCAAATGGGCC
TTAGGACCCGTGTACCTGCCCGGGCGGNCGCTCGAAAGGGnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nNTCTGTNNTNAAATTGGNTANTCNGTTTACAATTCCACACAANAATACGANCCCGGAAG
CATAAAGTTGTAAANGCCTGGGGG

Sequence 4595

CCCTTAGCGTGNTCGCGGCCGACGTACTTGTTTCTNTGCANANAGCAGANNACTATATGA
AANCAACATCCAACTTCAGTGGGAAGGGATATATCATTCAGAAAAGAGAAATAAANCCAT
GCTTGGAAGCAGATAAACCAGTTGAAGACATACTGACGTATGAGGAATTTCATCCTTTCT
TGTTTTCTCANCATTCACAATGNCCATATATAGAATNTGAATCATTTNACANGGCGGTGG
ATGAATTTTATTCCAAGATANAAGGCCAGAAAATTGACTTAAAAGCTTTACAACAGGAAA
AGCAAGCATTGAAGAAATTAGATAATGTTCGAAAGGATCACGANANCAGATTGNAAGCTC
TTCAGCAGGCTCANGAAATNGACAAACTGAAAGGAGAGCTCATAGAAATGAACCTACAAA
TAGTTGACAGAACCATTCAGGTANTTCGAAGTGCTTTANCTAACCAGATAGATTGGACAG
AAATTGGGTTAATTGNGAAAGAAGCCCAGGCTCAAGGAGACCCTGTTGCAAGTGCCAATC
NANAGAATTAAAACT

Sequence 4596

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CCAACATGGGCCCACCCAGTCTTCACAATAAGCCTGTAAGGCAGATGGGCCAGAAATGGA
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CTCTTTTGGCTATTAATCCACTTTCTTTCTATAAAACCATCTAGGCCAATGGATTTTCTG
GAGGCCTTGGGGCTTATGCCTCTTTAGGAAACACTTTGTTTTATTATGTCAAGGTGTATG
GGTACTGGCCCGAGGTTTCTAAGTTTTTTANGCATTTATGAAAATCCAGCTTGCTGAAGT
CACAGCACGTGTGTAATTGTATTGGGTAAGTTAATGGCTATTTATGTTTGGAGGTGTTTG
GAAAACAAGAAGGAGGCAAGAATTTTGAAAATGTGTTTTGACCAAGGTGTNGGNGGGCTC
ACACCTTTAATCCCAANCACTTTTGGGAAGGCCNAGGCANGAAGGATTTGTTTGANCTCA
AGGAGTTTTGAAACCAACCTTGGGTGACCACAGGAAAGACCCTTTATTTTTTCTTAAAAA
ACTNGAAAAAAAAAAAAAAA

Sequence 4597

TABLE 1A
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CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGNANAGA
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GAGTTTTTTAAAGATAGTTTTGTGGGCTAGGGAAGGGGTGGTGCTGATTGGTTGGGGATA
TCATAGGGGTGTGAAAAATGGTCCTNCTGTGCTGAGTCCACTTCTGGGTGGGGCCCACAG
GACCTNTGAGTCATGAGTCTTGGGTCTGGGTGGAGCCATCCGATCATTAAGAAATACAAA
AAGCCTGAAAAGACNTTTNAAAAGGTTAATCTTCGCTTCTNTTNATAATGGANGTTATTT
ACAAAAANTAAATTNGGGGAAAATTGCAAATTTTGGGACCTCCANAANTAATGACTGGTA
ATCATTTAACTATGCCNTACATTNTAACCAAAATTTAGGCCCCTTGTCANTTCTCCCCAA
TNTNGGCGGGGTTTTTTA

Sequence 4598
CCCTTAGCGTGGTCGCGGCCGAGGTACTTNNTTNTTTTTTTTNTTCTTTNNTTTTTATTAT
AAAACTAACAGCTCGTNACAATCTANNTTTNTTNNNNNCCTTNTTNCTTTTCCCAACTNC
AAAATACTNTGNGGAGATGCATTANNATTTAAAANATATAATATTGNNCAAACAACCAAA
AGG

Sequence 4599
CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTTGTGGCCGGACACGATGGCTCACGC
CTGTGGTCTTAGCCCTTTGGTAGGCCAAGGCGGGCGGATCACTTTAGCCCAGGAGTTCTA
GACTATCTTGGGCAACATGGTGAAACCCTGTCTCTACAAAAAACAAAACAAAACAAAGAA
ATTAGCTAGGTATGGTGGTGCTACCTGGGAGGCTGAGGTTTTCACAGGTTGAACCCCAAA
ATTAGGGTTCAGTCCAGGAGGCCATTTGGGTTCTTGGCTTCATGAAGGAAGGAATTCAAG
AATAAGCTGACAGTAAAGTAGAAGCAAGTATATTAAGAAAAGTAAAGGAATAGCGCCGGG
CCGTGGTGGCTCACGCCTGTAATCCCAGCACTTTGAGAGGGTGAGGGCGGGTGGATTGCT

Sequence 4600
CCCTTAGCGTGGTCGCGGCCGAGGACATGGAATGCTTGTATTCTTTTTAATTATCAAGGC
ATCAGTGTGGTTCTTAAAGCCATGTGCCTGTGTATGCTTGCCTAAGTGTGAATGACATAC
ACAGACATAACCTTACATTGCTTTCCCAAAAGGGGAATGCCACCAACAAATCAACTAATT
GGTACTTTNCTTTTTTTTTTTTTTTTTTTTTTTTAGGGGGACTATAACCCATTTTCTATTAA
TGAGCACATGGAATCTTTATTGCATTTTTCTATCATAAACACTTCTACAATAATTGNGCC
TGCATAANATTTATTCTATATTTATACTGCTGTATTTCTGAAATAGAATTCCAAAATTCA
TAATTTTGTCAGGTACCTGCCCGGGCG

Sequence 4601
CCCTTTCGAGCGGCCGNCCGGGCAGGTACTTGTCCTCAGCTTGGGCTTCTTCCTCCTCCA
TCACCTGAAACACTGGACCTGGGGGTAGCCCCGCCCCANCCCTCAGTTCACCCCCACTTC
CCACTTGGCNGTCTTGTTTGCCTNGAAACTTTTCTAATCCTATTACCGTTTCTTGNNGGA
NGTTAAAATTAATTNGNGAATTTTGGG

Sequence 4602
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGTAGACAAGTTCTAGATCTCTGANAGATGA
GCATATGCTCATGGCTGACTGAAAAAACTTATCATCATCCGGGTCCTTTGGAGAAAATCT
CTTTCCCATTAATTCATTCATTATATCATAAATGATGAAGGATGATCTCTTTAAAGGGTC
TCCAGGTTGATCAAACAGGCGAATAATATGGTGATATGTTGCAAGCGAGGGTTCTCAAAT
TACCAGGTAGACAGAAAAAATAAACAATGAGGTAAAAACACAGCAATCCAAAACATAGTT
TACTGGAGACCGCACTGAATTAAAAACATATTGTTAATATTTAAGCCAAAATATTGCATT
TCTATTCCTTTGAACAAAGTTATTT

Sequence 4603
GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGANNAGGTNATNAAATTTNTTTTAAAA
NAAAAGNTTTNNTGGGCNNGNTTAAANNCCNGNAAAAANGNATNCNTAAGGGCCTNAATA
AANTANCCANGGGCCTAANNANGANGGATNCCNNAAAAAAACCNTTAAAANNTTNTNAAC
NTAACNNAAANNNNNCCNNNCCATAANAATTTTTCAANGCNTCTNANNAAAAAAAAAA

Sequence 4604
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAAGGA

TABLE 1A
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GAGAGAAGGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCTG
CCTGCCTTGGCCTTCCAAAGTGCTAGGATTACAGATGTTTTGATTCCATAGNTTAATTAA
TTCTGTGGGCAATTTATTTCGGCATTCCAATTTGAACACACAAGCCCACTATGAGGCCCA
TTCTTTNTNTTTTACACACACACACACACACACACACACACACACACACACACACTCTGTCC
CTGCTCTCTCGCTCTCATTTGCTTGCTCATCAAAACATNTGCTCTGTATNTCACTGAAAT
ATCTGTCTTCTGTTTCATTCCTCCAAGTAAAATGGGTAACAACGCGTTAGAAAGAGTTGC
ATAGGCCAGACATGGTGGTTNACGCCTATAATCCCAGCAGTTTGGGAGGCTGAAATTACA
GGCGTGAAGCCANTGCGTCTGGCCTTTACCTTTACAATTAAANAATAAAAATCTTNTTGG
GAGTTCATGATNCCTAGAATTATTATTGGATTTAAAAATTTTCCATTTTTTCAAATACTT
TTTTTTAGAAANNAAAAGTTAAAGGTCATTAAAAANATGTTAATTTCTGGTTACCTAATA
CATTTTTAAAATAT

Sequence 4605
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTACAGCTGCTTTTATACCCCCTTGCCC
CGCCAACGTAGTTAAGAGAACAGCAGCATAAGCGGTGGCAGAGGCAAGGAAAGACCAGTA
GAGAGAAAAAAAGGCCATCTATACCAATTCTAAGTTAATTTAAGACTAAACAAGGTCTTA
ATAGCAAAGGATAATTGAAATCCCAAACTTCANGGTTTTCAACAANNGTGAAGTTTGCTT
AAAGTTAACAGTGTAACATGTATTATGGTACTTCTAATTCTTTGTGGCCCTTAGACAGTC
TAGTCCAAAGGCATNAAAAGAAAGGTTTTGCTTTAAAAAAAAAAAAAAAAGGGANTGGTT
ATTTTTCAAAAAAAAAAAAAAAGTG

Sequence 4606
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTCGAGCGGCCCGCCCGGGCAGGTAC
TTNNTTTTTTTTTTTTTTTTTTTTTTTTGAGACGGAGTCTTGCTCTGTTGCCCAGGCTGGA
GTGCAGTAGCACGATCTCGGCTCACTGCACCCTCCGTCTCTCGGGTTCAAGCAATTGTCT
GCCTCAACCTCCCGAGTAGCTGGGATTACAGGTGCGCACTACCACGCCAAGCTAATTTTT
GTATTTTTTAGTAAAGATGGGGTTTCACCATCTTGGCCAGGCTGGTCTTGAATTCCTGAC
CTCAGGTGATCCACCCACCTTGGCCTCCCAAAGTGCTAGTATTATGGGCGTGAACCACCA
TGCCCAGCCCGAAAAGCTTTTGAGGGGCTGACTTCAATCCATGTAGGAAAGTAAAATGGA
AGGAAATTGGGTGCATTTCTAGGACTTTTCTAACATATGTCTATAATATAGGGGTTAAGG
TTCTTTTTTTTTTCAGGAATACATTTGGAAATT

Sequence 4607
CCCTTAGCGTGGTCGCGGCCGAGGTACATTAGTTCCGTCCGGAAAGGCGGAGACAGCTCA
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TTCTTTTGAGTTTCTTGATAAGTCTTTCCAAAGGAGGCAATCAGAATATGCATCTGGTCT
CTGTGAGCAAATGGATGACTTGAATAGAATAGAAGGCAGATTTGCCCTGAGCAGTTCCCA
TCTTGAAGGGACCCAAGAATATTTTTCTTTCACATTTTCCCCTTTTCTTTTTTAACATCT
TTGGAGAAAGCATTTTTACAACANAATGAGTCTCCAGTCTCAGGAAAGGTCATCTGACCT
TTCCTGGCTAGGGACGGTTTTATTCCTAGATTGGTAGGTCTTGGGAAAGGTTCATTTTTT
TAGCAGGGTT

Sequence 4608
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGTTGAAATGTAGTTATTGGAAAAGTCTGT
AACCTGTGGATCATATATATTCAAAGTGAGACAAAGGCAAATAAAAAGCAGCTATTTTCA
TGAATAGACAAAGTTGATTTCAGGAAGTATAAATTATATTCTGCACCGAACAAGGAACAG
AAATTATTGCATCTGTGGAACATATATCTGGAGTTACTATACTTTACTGAAGAGCAAGGC
ATAAATTTAGACTAAAATCCATCCAGATTACACTCATTCTTTAGGCTACTCCTGGATACT
TCATTTAAATTTGATTTTTCGAGGTAGTGA

Sequence 4609
CCCTTTGAGCGGCCGCCCGGGCAGGTACGGCCAGGGCTATTGGTTGAATGAGTAGGCTGA
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GGGCTAGGGCATTTTTAATCTTAGAGCGAAAGCCTATAATTACCCCGCGTACGAGCTCAT
GAAAGTGTTGTGAAGGGCGAAGACTTTTCGCTCCCAGCTTATATGGATCGGCGTGACCAC
CCCTTGCCGGAGGTGGCCCATGTCAAGCACCTGTCTGCCAGCCAGTAAGGCACTGAAGGA

TABLE 1A
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GAAGGAGAAGGCCTCCTGGAGCAGCCTCTCCATGGGATGAGAAAGTCGAGTTGTATCCGC
ATTAAGTTCAAGG
Sequence 4610
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ATTA
Sequence 4612
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Sequence 4613
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Sequence 4614
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TCACCAGGGTGTGCTTGAGGGGGACGGGTAGACATAAACGGAATTCAGAGGCAGGGAAGA
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CTTAGA

Sequence 4615
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TTTTCANCNATTGTTTGGCCCAAACT

Sequence 4616
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AGAAAAAAAA

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Sequence 4620
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Sequence 4621
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Sequence 4627

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TGTATGGCC

Sequence 4628

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Sequence 4630

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Sequence 4631

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Sequence 4632

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Sequence 4633
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Sequence 4634
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Sequence 4635
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Sequence 4642
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CAGCCACAGAATCCCAAGGCATCAGCACCAAAGAGAGCCTGTANAAACTATCTGGTCTAA
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Sequence 4645
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Sequence 4646
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Sequence 4647
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CCTTGTTCCTTAGATTAGGAACAAAGCAGTAATGTCTCTTCTCAACATTAATCAACATAT
TGATGGGAAGTTCTAGCCAGTGCAGTAAAGCCTAAAANAAAANAAAAAAGGAAAAGGCNT
ACAACTAAGNAAAGGAAGGAAATAAAAA
Sequence 4648
CCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGACCACACTGAATCTCCCCTCCTCACAGT
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GCACAAAAAAAACAAGCAGTTATTACTATTTAAAATTCTATTCCTTCACCCAGTTTTCTC
ACTCAAGTAGAAACTCATGAATATCTGTGATTTTGGCTATAGGACCAGGCCACAANGAAA
GGGCTGAAAATATNTCTAAAAGTTAGGGAAAAAGTGTTTTCTTTGAGACTTTGAAANGCA
GT
Sequence 4649
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CCTCTAGTGCCTCCCAAGATCAGGGCAGGCCGTGTTGCCCTCTGGACTTCCAAGGGGGAA
GTGAGTTACTGGCCCAAGTCACTCACTCATCAAGAACACTGAAGCCAGGTCTGCTGACTC
CAGGGAGAGCCTTGTAGATTGTGAGGACCGAATGCATATAAAGTCCTTAGTCAACACCAG
CACATGGTAGGTGCTAACACATGTTGGCTACTATTGTTTCTAAGAGAGGGTTTTCTTGAA
TGGAAAGAAAGGAGAAAAGACAGAGAGGAAGTCAGGAATGTCACAGAGACACTTTCTGGG
GCACACAGGTGAGCAAGCACAGAGAGCAGAGCTGCCCAGGCCAGCTGCTGACTTCATTCC
GTGTGTCCTCCAAGGGCACTTTTAGG
Sequence 4650
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTGGAGATGG
AGGTTTGCTCTTGTTGCTCAGGCCGGAGTGCAGTGGCGTGATCTCGGTTCACTGCAACCT
CCGCCTCCTGGGCTCAAGTGATTCTTCTGCCTCAGCCTCCTGAGGAGCTGGGATTACAGG
CGCATGCCACCACGCCTGGCTAATTTTCATATTTTTAGTAGGGACAGGGTTTCACCATGC
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TGCTGGGATTACAGGTGTGAGCCACGTGCCTGGCCACTTTTCTTTTTTTTATTTTTAAAA
ATTTAGTTGTATAATACCAAATTCTTCACTTGTCTTTTAACTGAAACCTTTCCCAATTTG
TGCTTTTAAAGGCATTTGAAGATAAAAAGGGTATGTAGTCAAAATGGAAATTTGAG

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Sequence 4651
CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTACGCGTGAGCTACTGCACCCGGCTGA
GTGATTTTTTTTTTTTTTTTTAAGATAGAGAAAGTCCCTCATACTGAGGAGCCTTGCAGT
TGAGAGAGAACAAAATTCCAATTNGAGGGATCAAGGAATTTTGAGGGAGGCAGCNTGCTT
GCAGTGTTCCTAGGATTTTTACAGGAACTACAATAGAAAGTTAGGGATGAAATTATATTG
AAAGGGGAAAGCTGGACTGCTCAGGTTTGGAGGTCATGGGGAATTCCAGGATTCAGTATG
TGGTTGCTCTCTTATTTTTAACTTCTGCTTAGCAGTAAAACCACATCCTTCCTTCTTCCT
GAAAGTAAATGTTTAACTTCCTCTCCCTGCAGCATTACACTCTATTGTNATGGGAAG
Sequence 4652
CCCTTGAGCGGCCGCCCGGGCAGGTACCAAGCCTCAAAATACTTGAACTAGAAGCCATCT
CTTAAAGTTAAAAGTAAGAAGCTCCAGGAAAAATAAAGATTGCATAGTAAAAAGGGATAG
ATGGCAGGATTAATTCAACTCAACAAATATTTATCAAATGTCTACTCTGGTCAGGTGCTG
TGTTAGCAGCCAGCTTCCCTAAAGGGAGGAAAGGCTAGACACGAGGACATTGAGGATTGT
TTATTTAAAGTCACTCATAGGCATGCCATAATGGATTTATTAAGGGGAAATTGGGGTTTC
TGTGAATCTTTACAGGACCATAGCCATGGAGACAATCACTATGTTTAAGTAAGTTTGCTG
TTTTCCCAATTGGGCTTCAGTTTTCCTGAGACAAAAAAAGTGAGGGAANTTTGGGATTAA
ATT
Sequence 4653
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACTTACATGTTTTACTTTCCAAGTTCCAAC
CTAACTACTTATAAACTTGCAAGTAGTTATGAATTGTGGGTTACCTATAGTCAAATAGTA
GGGTTTTTTTTTTTCAGTCAATTGGAAATGAAAGGGCAGGTATTGGCAAGGCTTCGGGAC
TAATTTAATGCCATTAGGAAAGCACAAGATAATGTAAGGGGCTAAAAGCCTCAAAAAAAA
AAAAAAGGTGAAATGAGGAGTTGTTGCTGATTGGTGCAGGAACCCTGAAAGATGGCACCT
GAAAACTCAAATTA
Sequence 4654
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GCAGTGGCCTGCCAGCACTTGAGAGGCTCCGCAAGCNCAAGTGTGTTTATGGGAAGTTGT
GCACATGCTCAGTTGAGGCATTCTTCCCTTACCAGTCGAGTGTTTCTAGAGGAAGGTCAT
AGACTAATAAGTCTAATAGTTCTATGGCCTTTAGTCATACTAGTGCACATGCCTGAGCCC
CACTCACCTGTGAACCCC
Sequence 4655
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGGCATGATGAGTCCTTTTGCTTTTAGGCT
TTTGACTTCTGGTTTTAGACTTTCTTTAGCTTCTGTTGTTAGACAACATTGTGCAAGCTT
GGTTTTTATAAGTTTGCATGGATTAAACTGAACTTAATGAAATTGTCCCTCCCCCCAAAT
TCTCAGCACAATTTTTAGGCCCGCAAGGAGTCAAGCACCTCAAGGAGATCTTCAGTTTGA
ACTTGGTGTAGACACAGGGATACTGATGAATCAATATTCAAATTAGCTGTTACCTACTTA
AGAAAGAGAG
Sequence 4656
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TGTGCCACCACCCCTGGCTAATTTTGTATTTTTAGTGGAGCCGGGGTNTCTTCATGTTGG
TCAGGCTGGTCTTAAACTCCCGACCTCAAGTGATCTGCCCGCCTNGGCCTCCCAAAGTGC
TGGGATTACAGGCGTGAGCCATTGCACCTGTCCCTTGCCAGTGTGTTNTTAAAATAGGTT
TAGGGGGTTGNGAAAAGATGCAGTGAGCCATTAATTCTNCTTTAGCAAGGTAGTCTCTTA
AAAATTGATGTTGGATTTTAAAAAATATACCA
Sequence 4657
CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATAACATCATAAATAACATAAATGAGAAGT
TTTCAAGTATTTCAATGTGCCTTGAAAAGTTTCAAACAGTAATTCTCACAATTGGTTAGA
CAATCATTTTTTTTCTTTTCTTTTCCTCTCATTTAGTCTCAGAGCCTAAAAAGAAATGCC

TABLE 1A
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TCCAGTCTCTGTTAGCCCCGATGTTTGGAATGAAATTAACAAGATTCTACCTTAAAAGAG
AAAACTTATGTGGGCTTTTCAAATTGTGAAAATTTGTTCCCTCTTATAAAATATAATCTT
TCCCCTGCTGCTGGTTTATAAATATGGGCATATAGCCCAGAGCCATTATAAAGAAAAAAC
AACCAACCACAATAAACTAAGGAGCCTCATCTGATGGCTAAGGTTCTCAGGAAAAAATGA
GAAGAGCACCTTGATCAGGAAAGGAAAAAAGGATAGAGGATAAAAACAGTAACCTTTAAC
TTCTA

Sequence 4658
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ATTTTGCCAGTAACTTTCACCTGTAGAAGTCAGAATAACCAAGCACAGATCTTTTTTCAA
ACTTTCTATGATATTTTGACTTTGCTTCCATCCTTTCTATTGCTTAGTCTAGAGATTAAG
GTATTACTTCTAATAATAGTCATTTACATTATTTATGTTGCTAATCTCTTGATGACAAGA
CCTCTACATGTGTCTTGGAAATAAAATCAAATGGCTCTGTGCTTCATATAGAGACTAATT
TCTAAGACATAAATAAAAGGGAATGGACAAAGGTTGTCAAACAATAGCCAGGTAGTTCTT
TGCTGAGGAAANGGAACCATTGCTGAATGCTTTTGANAATGCTCTTGGAATATTAAGGAA
AATTTTNATTTATCACCAAAATCTTTAATTAAGTTTAAGGATCNCNAAAATTGGATTTAA
GGTTTTTAAAAAATTTTTTGGAAGNGGACAAAAATTCCCCATATTCCTTGCCATAAATTT
TTTTTTTTTAAATC

Sequence 4659
CCCTTAGCGTGGTCGCGGCCGAGGTACCCTCAGAATATCCTTAAGAAGCAGGAAGGAAAC
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GCAATTCTTATCACCAGATACTCCGTTATTAAACGTGTCTCCTGCCTTCTTTGAAAGCAA
CAGGAGAAATGAAGCATAGGAAAGTCTGCAAGCTAACAGTGTATCACCTAGGAGGCTTGT
ATATAAATATGAAGCTCTGCAAAATGTAGTTATAATGAAAGGCACTTCCTATTACCAGCT
CCCTAACTCTTTTTAA

Sequence 4660
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GCTGTGGCCGGGTGGATCACCTAAGTTCANGAGGTCGAGACCACCTGGCCAGCACGGAGA
AACCNTATCTTTTGCTAAAAATAAAAAAATTAGCCNGTCATGGGTNGCCGCATACCCTGT
AATCCCAGCTACTTCAGGANGCTGAGCAGGGAAAAATNACTTTGAACTTTGGGGAAGGGG
GAAGGGTTGCAGTNAGCCCNAAAATTGCCGCCATTTGCACTTCCANNCCTGTGCAACAAN
AAGCCCTTNGCACAAAGANCNAATACTTCCATCTTNA

Sequence 4661
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GTGATTTAGAGCAAGGATTGAAGAAAGGAGTCCTTGTAAGTGGAATTGGTTTCATATGGC
ATTCTAATGACACAGGAAAATGTGTTCTCGCCCCATTGACTTGCATACCAGTAAGAGTCT
TGCCTTTGATTAACTGAAGCTAATCTGGGTGCAGGGAGGTGGTGGACAGTGAATAAAGTC
ATCTCTTCTCTTCCTCCAAGACACACCAGTGTCAACATGGGAACAGCAATGCCATAATCT
TCTTCCCAACTCACAACTTTCAAATAGTAGTTAAGCTTGACTAATTCAAACTCAAAAAAA
AAAAAAAAAAAAAAAAGTACCTGCCCGGGCG

Sequence 4662
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGAGGGTTAGACCTACTTCTGTGTCAGGTAG
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GTTCTGATAGATGATGCCAGTGGAACTTCCAAAGAAGCATTCCACCTGATCTTCACCACC
CTCTTTGATCCTCTTTTTAAATCTGTGTGTGGAAGGCAACTGCAATATAGAGGATTTGGA
AGGTTGTCTGTTTCTGTTGTCTGGGGAAATGATAAAAAAAAAAAAAAAAAGAGAGAGATG
TGAAAAAGGAAAAAGATGGACCAG

Sequence 4663
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGGGTCTTCATTTTGAAGGCTTCCATAGTTA
TATAAAACGATGATTAAATAAACGTGCTATGCTTCTCGCTTGTTAACCTGCCTTATTATA

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GCCGTGTCAGCTGTGACCCTTTTGATAGGAAGGAAAGAGATCACACTATTTCTGCCCTTA
TAGTTCTGATGATGAAGATGGGATGTCTGAAGCACCTGACTCACCTATTGATGAGGTCCT
GGGACAACTGATAAAGAGCTGGCAAATAAAGGTAAGAATTTTTACCAAGGTGAGTTCTGA
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TTCCAAATGCAGGTCAGCAGGAGATCATTTGTTTGAACTGTTCTCTTATGTAAATTTGGA
TTTCAGGGACTCATTTGTTATTGATCCTTTCCCTTCAACGAACAGCTGTCATTTTCCTGT
TTTGTGTCCTGAGAACCCAACTTGGCTTGCTGCCTGTCANGACACACTTTGGTGTGTGAA
NGGGGCTAAACAAATGTTGGAGGCTCCCATTAAAAGCTTACATATTGCCTATTGCCAGCT
CTTCAAGGCATCTAAATCTTTCTTTCTTTT

Sequence 4664

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCATGGCTGAAAAAAAGAGTCACAAGTGGCTG
AGACACTGCTCCATACAGGACTCATGTGTGGTCATTGCCCACCCAATCTTATGACTCCAT
CATCTTGGGACCTGGAACAAACATGACTTTTTTTGATCGATATTTTGTCCTCGGTGTTTT
TCAAGGTCTGATGTTGGAGCCCTGTGGCCCACCCTCCCTTCTCCACCAGCATGTTGGTTT
GAAAAGGATAGGGAATTTAGAAACAGTTCTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 4665

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AAAGTGGTTTCTTTCTTTACATTTCATAGAAGAAGCCTGCCTCATTTCCAAATGAGAGCA
CTAGAAGCACAAATCATGCAGACCATTTACTATATAACTTATGAAAAATGCTGTACTGGG
ACAGCGCCCGCCAAGATCCAGGCCATGGAGGCTAACGTGCAGCTGAGCTTTGACAAGCAC
TGTGATCCAAAGCAGCCTAATTACTGGCCGGTCATCCCCCCGAAGTTCTGAGCTCGGGGC
ACAGGGCACCCAGCCTCTTTCCTCTTCCTTTTTGGATACCGCGCCTCTTCATCTCTCCTT
TCTGTA

Sequence 4666

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTCGATTGTCAACGTCAAGGAGTCGCAGGTC
GCCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGAGTTGAAGATTAGTCCGCCGTAGTC
GGTGTACTTTNNNTTNTTTNNTNNTNTTTTTGAAAAAGTAGTTAGCATTTAATGAAACTC
CCTCCATGTGGCTTCAAGCCACCAGGACACAGGCCCCCCCAACACTNTTAATCTTCTCCT
CAGCTCTTCTGCTGAAAAATTTGGCCTTCACGATGACAGGCTGCTTTGGGAGCTTTCCCT
TTCCCANAACTTTATAAGTAGCCCCGATCGCACCACATNAATGGATGGGGAAGCCAGCCC

Sequence 4667

CCCTTAGCGTGGTCGCGGCCGAGGTACNGANCNATACAANNNANTNTTCTCCTGTNATCC
TAACAAAAACCCTATATTTGNTTTATCCCCATTTCAAAATGGGAACTAAGTACATATAGA
GTGNAACTNGCCCCANATACACACTTCTAATCATGAAACCTATATA

Sequence 4668

CCCTTCGAGCGGCCGCCCGGGCAGGTACAACGCAGAGTCCCGGGAAGCAGTGGTAACAAC
GCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGC
AGAGTCCCGGGAAGCAGTGGTAACAACGCANAGTCCCGGGAAGCAGTGGTAACAACGCAG
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ATNTGGTNTCCTATGATTCCTGAAAATAAAATCTATTTNTAGGAACAATTTAAACCGTAA
AAAAACTTCACTGNGTCATGAATTAAACTTTCCTATTTTTT

Sequence 4669

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTAATGGAAACAACTTGACCAAAAATTTGT
CACAGAATTTTGAGACCCATTAAAAAAGTTAAATGAGAAAAAAAAAAAAAAAAAAAGTAC
CTGCCCGGGCGGCCGCTAAGGG

Sequence 4670

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGGTGAATAGTGGTATAAGTAGAAATTCTCG
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TGGTGTGGAGTTTTTCATCTTGGCTCACTGCAGCCTCAACCTCTTAAGCTCAAGTGATCC
TCCCACCTTAACTGCCTGAGTAGTTGGGACAATAGGCATGCACCACCATGCCCAGATAAT

TABLE 1A
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TTTTTTTTTAATATTTTGTAAAGATGGGGATTCCCTATATTGTCCAGAATGGTCTTGAAC
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TTCTTCTAATAAGNTTTCTTNGGNGGTCTAATCATTCATAGGNNGTTGGAATTTACCAAA
CTTTTTCTATTTCAAGTNTTACATTTTTTACCTTTGGTCAAGTAATATTGTNTCATATTA
AAAGGAACATTGGATTGNGAAAAAACCCTGCTTAATCATTGGGATGGAAATATCCTTATN
CCTTTTTGGAATTCTTTT

Sequence 4671
CCCTTAGCGTGGTCGCGGCCGAGGTACATAAGCCACTTTCATACCTGCCTACTATTATGG
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AAAATGAACTTTCCAGACCTACCAATCTAGGAATAAACCGTCCTAGCCAGGAAAGGTCAG
ATGACCTTTCCTGAGACCGGAGACTCATTCTGTTGTAAAAATGCTTTCTCCAAAGATGTT
AAAAAAGAAAAGGGGAAAATGTGAAAGAAAAATATCTTGGGTCCCTTCAA

Sequence 4672
CCCTTAGCGTGGTCGCGGCCGAGGTACTGAATTTCAGTCCTGGCTCTGCCACTTAGCCGA
ATATCTGACCTTGAGCAAGGCACTTAACTTTGCTGGACCTTGGGTTTCTCATCTTTAAAA
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TTAAATCATCCCAATATAGTGAAGTTATTCGAAGTCATTGAAACTGAAAAAACACTCTAC
CTAATCATGGAATATGCAAGTGGAGGTGAAGTATTTGACTATTTGGTTGCACATGGCAGG
ATGAAGGAAAAAGAAGC

Sequence 4673
CCCTTTCGAGCGGCCCCCGGGCAGGTACACACATTTTTTAATTTATAAAATAAATACTGC
CAGGTGGCTACTTAAAAAAAAAGAAAAGAAAAGAAAAGGCCAGGCGCAGTGGTTCACGCC
TGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGCAGATCACCTGAGGTCGGGAGTTCGAG
ACCAGCCTGACCAACATGGAGAAACCCCATCTCCTTACTAAAAATACAAAATTAGCTGGG
CATGGTGGCGCATGTCTGTAATCCCAGCTACTGGGGAGGCTGAGGCAGGAGAATCGCTTG
AACCCGGGAGGCAGAGGTTGCAGTGAGCCGAGATCCCACCATTGCACTCCAGCCTGGGCA
ACAAGAGTGAAACTCCGTCTCAAAAAAAAAAAAAAAAGGTAAATTAGGTTAAAAGAAAAA
AAGTGTTATGGTGGAAGTGGAGTAGGGTGCCATTTTAGTTAGGGTAGTCTGGGAAGGCCT
CTCTGAGGAGGAGCTATTTGAATAGAGACCCGAATGAAGGCTGGGA

Sequence 4674
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTNTTTTTTNTNTTTTTTTTNNGTGCAGAA
AAAAATTTATTGGAAATCCCTTGAATACATTTTNGAAGTTGTAGCTNGGTATTTNCAAAC
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GGTCCCANCCTGTCCCGGGGGTGCTNCAGGAGTCAGNTNTAGGGCTCATTCCTTTTCATG
GCATNGNCNTGAGGGGCAAGGGGCTGGCNCTTAAACAGTTGCTTTAACTTTNTCCCAAAG
CTCAANCTNAAAAGTCATGGCTGAAGACTNTTNACAGATGGANGCCCCTGGTNAAAGGCT
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ACCAGGGGGGCN

Sequence 4675
CCCTTTGCGGCCGCCCGGGCAGGTGGATCACTTGAGGTCAGGAGTTCAAGACCAACCTGG
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ACACCTGTAATCCCAGCTACCTGGGAGGCTGAGACAGAGAATAGCTTGAACCTGAGAGGC
GGAGGTTGCAGTGAGTTGGATTGGCATCACTGCACTCCAGCCGGGCAATAGAGCAAGATT
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ATTTTTACCGGATTTGAGAAAATANGGGCTGGGCACGGTGGCTTATGCCTGTAATTCCCA
GTGCTTTAGGAGGCTNNCTTGAGCTCAGGAAGTTTCCAGACCCACCCTTGGGCAACCATA

TABLE 1A
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GCCAAATACCCCTTNTTCTACCAAAAAATTACCAAAA
Sequence 4676
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NNNNAAANNNANNNNNNNNNGNGNNNNNNNAAAAAAAAAAAAANNNNNCNNCTTTTTTT
NANAAAAAAAAAAAAA
Sequence 4677
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TTCACCTGGNTGCNGGGGGGCTNATTTNNAAAAAAAAGTNAGNGAANAGAAANAAGGGGG
GGGCTNTTTTANAGGATTTGGGNNGGNAAANNAAAA
Sequence 4678
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Sequence 4679
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TGCAATCTACGAGAAGAGTTGGTAGCTGTCTCAGAGAGAAAAGACATCTGTAATGCAATG
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CAATTTTTGGNCCTGGCCTGAAATAAAAGGTGNGAAAATNCCCAAAANAAAAAAAAAAA
AA
Sequence 4680
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AAANTTTTTTTTTTTTTTTTTNGNAAAAAAAAAAAAAAAAAAAAGNNTTTTTTTTTTTTT
NNAAAAAAGGGGGGGGGNNTTTTTTTTTNAAAAAAAAANTTTTTTTTTTTTTTTTTTNAN
NCCCCCCNAAAAAAAAA
Sequence 4681
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACCCAGAAGAGTTTGCA
CTTCGAGATCAAGAGAAGTATCTGTATCGATATCCTGGTGGGGAGTCATACCAGGACCTG

TABLE 1A
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GTGCAGCGGCTGGAGCCTGTCATCATGGAGCTGGAACGTCAGGGCAATGTCCTCGTCATC
TCCCACCAGGCTGTCATGCGCTGCCTCCTGGCCTACTTCTTGGATAAGGGCGCAGATGAG
CTACCATACTTGAGATGCCCTCTCCATACCATCTTCAAACTTACTCCTGTGGCCTATGGG
TGCAAAGTGGAAACAATTAAACTTAACGTGGAGGCTGTGAACACGCACCGTGACAAGCCA
ACTGCAGCAGAGACCACACTGGCTGTGCGCAGACGCCCCTCCGCAGCGTCCCTCATGTTG
CCTTGCTAATGATGTGGATGTTCAGGCCTCACCTCTCAAACGACTGGGATCTACTGAAAA
GCTTGGGATGTCAGCTTCACAGAGGCTAGAACAGGAAAGTTAAGTGGGAACTGGACTTTG
GGGGCCACCAAAACGAGGCCTGGAGAAACGTCACCATATTTCCTCCCCCCTGCCTA

Sequence 4682

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCAGCCTGGGTGACAGAGTGAGACCTTGAT
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AAGAGCAAGCACTTGCCATTTGAGCCTTAGCCAGAACTATAAACTGGTAATGGTGGGTGA
NGGTCATTCCTTTTTCCATATTNNCTTCTTCTTCACAGAGGTTGNTTTTTTTNAGAAAACT
TAGAGAAAACCACCCANGTGTTGACTTTTAGTAACCTTCTATGATCNGTAACTAGCTAGT
AGAATTAATTGGCCNTTTNATNTTTTTTAAAGGGNTTTTTTT

Sequence 4683

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ATTTTATCTTTATTATGATGGTCGCTGATTTAAACTATTAATGAAAATATGTCATGTCAG
AGATATAAAGAAGAATATATCACCCAGATAGTAACATGCAATTAATTTCCATTTGATTAA
TATAATTGGTGATTTAACACACATACATATACCCGCGTACCTCGGCCGCGACCACGCTAA
GGG

Sequence 4684

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AATTTTTTTTTNAAAAAAAANATTAANAATTTTCNNTTTTNAANCNGGCCNNTTTTTAAA
AAAAAAAAANTTTTTTTTTTNTCCNCTNCNNCAAANACTTTTTAAAAATTTTTTTCNCGG
GGGNNAAAAAAAAAAAAANCCCCCNNGGGGTAAACCNAAAANNTTTTNTAAAACNGGAAA
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NGGTNGAAAAAAATTTTTNCCCCCTAAATATCCCAAAAAAATAAAAAGNNGGNANAAATA
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Sequence 4685

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCATCATCTCATTTGACTCTTGAAATAACCCT
CTGAGGTATGCTAGAAGGGCATCCTTATCCCTGTTTTGCAGATGAGCAAACTGAAGTGCA
GAAAGTCACACAATGAGTTGGGCGAGAAATTGAGTGTTAAAACTCCTGAATGCTTCTAGT
CCAATACTCTCCCCATGATACTAGGTATATAACAAGTGTGGGACAATCATGGTTAACCAA
GAGTATCATCTGATTATATTACAGATGCATTGTGAGAGGTTTCTATGTATCCTGAGAATA
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GGCTACCAGTTTATCCAAACGGATAATTACTATTTCTCTTTTGGACTGTATGGTGCCTTT
TTGGCATCACACCTCATCATCCAAAGCCTGTTTGCCTTTTTGGAGCACCGAAAAATGAAA
AAATCCCTAGAAACCCCCATAAAGTTGAACAAAACAGTTGCCCTTT

Sequence 4686

CCCTTAGCGTGGTCGCGGCCGAGGTACAATCAGTGGGAGCCCTGAGCCTGTTTTCCTGTG
GTCACTGAGAGGAGGCGAGTCATGTGTGAGGCTCCAGGCAGGGGTGGGGCAGTGACTACT
CAGTCAATTGCTCCATGTCTCAGTGGTTTCATCTA

Sequence 4687

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTCTTAGATAAAACAGAATACTTGAAGTTACC

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AGTTACAGAAAACAAGAATCTATAAACTAATACCATAAAGCAAAGGAAAATTTGTTTTTT
GTCTCCATGTGTTGAAGGAGTGCTGGGAGAGTCTCCAGAGCACATTCCTTTGTGTCCTAG
CTTCTTAGATAGTGTTTACCAAGCCTTTTCCTGGGTCTGGGCTGTGCCTGTTGCTGCCTC
TGGGACCAGTCAGCCTAATACAGGAAAGCTTATTTCTTTCTCTTTTTAATTTTATTTTTC
CTTATTTCTTTAATTTCCCACCTCAAAACATTTCCTACTCTATTTCATCAACTAAGATTT
ATATGATTCATCCATTAAATATTTATTTGAATTTCTAATTTTGGTATTATGGTAATCATA
ATTAAGTAAACATTTCCTACTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 4688
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ANNAAAAAAAAAAAAANNNNCCCANANTNNNANNGGGNGAGAGGGGTCNCCCCCCCCTNGN
ANGGANGAAATTATTGNTTNCCCTCCTTGCTTACTGGGTCCTACNCCAACANATATGGGA
GGGGATCCACCCACTTAANTTTCCCTTGGACTGCNAATGGAANAAATGATTTTCAACTTG
GCAAGACACACATTTTATTTTTTAATGGACTTAAAAAAAATGTGA

Sequence 4689
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTACCAAGTAGGCACTTGGGAAATGCTGTG
TCCACATACTTAGGAAATGGCTTCAGTTAACACTGGGCTTGGGAAGGGCTCTCTTATCCA
AGGAGCAGTCTTCTCTGGAGCCATGAAACCAGCCTGGCAGCACTGGTAATAAACTAGTCT
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CCATTGCTTTTTATTACTTAATCTCCCAACTTTGTGCCTGGTGTCTTTTTTTTTTTTTAA
AANAAAAANTTTTTGNGGGAATTANGTTTTCANAAAAAAGTTTTGGGGGGATATNCTTTT
TCCNCNAAACCNTTGTTTAAAAAGGNCCCATTNCCNNATTGGNNAATTTTTNGAAAAAGG
GTNTTTTNNCCCCCAGGNTGGNAANACCTTGGGCCNGGAACCNCCCTAAGGGGGAAATTC
CANCCCCCCTGGGGGGCCGTAACTATGGGAATCNAAGCTNGGGTACCAAATTTGGGGGGA
AA

Sequence 4690
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CTCACTCAGGCGCACACACCCACACACACATACCCCANAGCCACCGAGGAAGGGAAACAC
CAAGGGTCGCTGCACATAAAAATATCACCTCAACTCATCCCTGACACACGCATGTCCTCC
CAAGGCCACGCTCACACAACACACACTATAAGCACTTTGCCTGATTCACTCACTGGGTCT
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CCCGGAGCCTGATAGACCTGCTGGGTGGTTAGATCCAGAAGAACAATAACAATCACTACA
AGCTCAACTCTCAGGAAAGCCACATCCCTAGGAAAAGGGGAAAGTGCTATGTCAAGGGAA
CACCCCATGGGCAAAAGAATTTGAACAACAGCCTTGAGCCCTTAGACTTTCCTTTTGACA
TAGTCTACCCAAATGAGAAGGAACTAGAAAAACAATTTCTNGTNATAATGACAAAACAAA
AGTTCTTTAA

Sequence 4691
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ATCGATTATTTTCTCCTTCATAATAGTTACCTTTTGACACTTACACATTCACCCCAAGTA
CCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCC

Sequence 4692
CCCTTAGCGTGGTCGCGGCCGAGGTACAAATGTGCATCCTCACTAAATTATTGCTAAGAC
TGACCTTTTAATAAAAAGGAAAATCACAAAGGAGGGGAACCGAACAAAGATACTGCTTTC
TCAAAATTTGGAAGACCACATATACATTTATATAGATAAAGCTCCATGAATCCATATCTA
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TABLE 1A
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TAACAAGCAGCACCGCATCTCCTAGCACCGATAGCCCCTGCTCAACCTTGAATAGCTGTG
TCAGCAAGACGGCAGCCCAACAAAAGGTCCCTGGTGAGACCATTAGCAGCCCTAGTTCCA
CCCTGGAAAGCAAGGGAC
Sequence 4693
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GCAAATAAAGGCTATCTCCGGGGCTGCGGCGGGAGGAGTGCGGGGGGGGGCCGGCGGCGG
CGCGGCCTCGGCCTGTGTGACTGGCGGCGCCCGCGCAGCCTCGGGCTGGGAAGGGTACAA
GATGACCAACGAAGAACCTCTTCCTAAAAAGGTCCGACTGAGTGAAACAGACTTNAAAGT
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GGNTAGCAACCAAAGGAAACAGGAANATGCAAGAGTNCACCACTTCAAATTTCAGTACCT
TNAAGGCAAAGTTTCAGCANCCCGAGTGTAAGCCCCAACTTGGNNATCAACAATTGTTNG
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Sequence 4694
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NNAAAAANNTTTTTTTAAAAAATTNGNAANNNNAAAAAAAANTTTTTAAANACCCTNGGG
GGGNTT
Sequence 4695
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GGGTTNNNNNTNANTTTNNTTTAAAAAGAACCCNTCCNGGTTTTNGNAAAAAAAAANNTT
TTTAAGGGGGCNCNNTTAAAAAGGGCCCCCCNNTNGGGGNAAACCCCAAAAAGGGGNNNC
CCCGTTNNCCNCNTCAAAANNTTAAAANCCTTTTTTGGGGAAAAAANAACCCCTGGGGGT
TTTTTTTTTCCCCGGGGGNTAAGNGGGGGAAAAAAAACCCTTTTTTTTCCCCCG
Sequence 4696
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CTCAAGCATATTTTAAAATAATGAGAGATGGAGGAAACAATCTAGAANATAAAAGAAAAA
GATGTGCATAACTTGTTTTCAGTTTCCCTGTTTATGACAGTTTGTCATTTGGCCGGGTTG
GGGGATGGANCANGGAATAAGACATTGAAAAAGCTCATCCC
Sequence 4697
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TTCCAGCTTCTGGTAGCCTTAGGTGTTCCTTGGCTTGTGGTAGCCTCTCTCCAATCTATC
CTCTGTCTTCCCCTGGCCACCCTTCTGCTGTGTCTGTGTCTTCTAATAAGGACATATTAT
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TTTTGGTGGGACAGGATTCAACCCACGCCAGACTGTTTAGAGGACTGCTATCTGGTTAAT
TCAGTACCTGCCCGGGCGGCCGCTAAGGG
Sequence 4698
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTNNTTTTTTTTT

TABLE 1A
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TTTT

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CNNTTNNAAAAAAAAAANCNNGGGGGGGGGGGGGGGG
Sequence 4704
NCCCTTAGCGGTGGTCGCGGCCGAGGNACCTTTTCTCTAATAGAAGGTATTATCCTTAAA
ACAAACCTNTGCTTATCTTCTATACATTGGTTTACNACAGATGTATAGTATTCTCTCATT
TTTGTAAATAATTAAAAATCTGTATAAAAGGATAATTTATAATATGTTNATATGAGGCCA
GGTGCAGCGGCTCACANCTGTAATCCCANCACTTTGGTANGCCNANGCGGNTGGATCACG
AGGTCAGGAGATCGAAACCATCTTGGCTAACGCAAGTGAAACCCTGTCTCTACTAA
Sequence 4705
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AGATTCCATAATATAAGGGGTCGGTGGACCGGTCGATGTATGTCTTGTTGCAGATCATCA
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GCTCAGAGGAGGAGGATGAAATAGATGGTCCAGCTGGACAAGCAGAACCGGACAGAGCCC
ATTACAATATTGTAACCTTTTGTTGCAAGTGTGACTCTACGCTTCGGTTGTGCGTACCTN
GGCCGCGACCACGCTAAGGGCGAATTCCANCACACTGGCGGCCG
Sequence 4706
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GCCGCTCGA
Sequence 4707
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AGTTCCAANTTGTCCAANATCCTGGAGAAGGAAGGGNATATGGGA
Sequence 4708
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TTTTTTAATTA
Sequence 4709
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AAAAGTTGTGTGGATATAAAAAATGTAAAGCCGGCTGGGTGCGGTAGCTGACGCCTGTAA
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Sequence 4710
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ACCGATACCGGCNCGGGAAAGGGCCAGGAAAGGGAGTCAAGCAGGAGCGTCTGTCCGAAC
GGAGGCTAGGTAAGAATATTTCACCATGAAAATGTTAAAAGACATAAAGGAAGGAGTTAA
ACAATATGGACCCAACTCTCCTTATATGAGAACGTTATTAGATTCCATTGCTCATGGAAA
TAGACTCATTCCTTATGATTGGGAAATTTTACCTAAATCTTCCCTTTCACCCTCTCAGTA
TCTACAGTTTAAAACCTGGT
Sequence 4711
CCCTTAGCGTGGTCGCGGCCGAGGTACTTATGACTGAGATGATATCAATTTAAGGCAGGA
TCATGTATTGTGTCTGTTATGATTGGCTATTAGAAAAAGGAAAAAATCTGGCAGACACAA
TCTGTATTTGTTTTTTATTGCTGCCTAACAAATTATTACATACATAGCAGCTTAAAACAA
CACCATTGATTATTTGTAGATCANAAGTCCTGGTGTAGGTTAGATGGCTTCTCTGATTAG
GATGTCTTCAGGTTGAATCAAGGTGTCACCTGAGACTGTGATCTCTGAGGCTTTGGGATC
CTCTTCCAAGATCACTGGTTCTTGGCAGAATTCAGTTCCTTGTGGCTACAGGGCTGAAGT
CCCCATTT
Sequence 4712
CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTATGGGCACAGATAGCTAAAGTAAACATTT
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GCAGCATAGGGTAGTGGCTAAGAACCTAAACTCTAAATTTAGATGTCCTGAGTTCAAATC
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G
Sequence 4713
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AAGTTTTAAAAATCATTCTCAACACTACAGAAAAAAAGCCAGTAACTATACAAATACTCA
CTATAAAGCGATGAAGTCCATAGNACTTTNTTTTTTTTTTTTTTTTTTTTTTNGG
Sequence 4714
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CTGCCCCCTNCCTAAGCCCTGACCCAACCCTATNTTAATAATCACCGAATGGTTAGTACT
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Sequence 4715
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AATCTAGGTGTCCATCAATGGACAAATGAATAAGGAAGCTGTGGTATATATACAATGGAA
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CAGAGTTATGGGGCAGGGGAATGGGAAGAAGTAGGTCAAAGGACACTGAGTATCCCTAAT
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CAN
Sequence 4716
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AATTTTCTGATGAACGTGCTGCATATTTCAGGTGTTATCATAAGGTTACAGAACTCAATA
ATGTGAAGAACGTAGCTCGATTGCCAAAAAGCACCAAGAAACATGCCATAGGGATTTATT
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TABLE 1A
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GCAAAGTACCTNGGCCCGCGACCACGCTAAGGG
Sequence 4717
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GGAGNGCTTTTNAAAAAAAAAANCCCTTNNGANNNNNNANAAAAANGAGNGGAAAAAAAA
ANAAAAAAAAAAANCNGGGGGGGGGNACCCCCCCCCCCCCCGNGGGNNNTTNNTNNANNA
ACCNCCCCCCCAAAAAAA
Sequence 4718
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ACCAGGGAAGTCACCCCACGGNTATGGGGAAATTAACCCGAGGCTTAGCTTTCATTATCA
CNGTCTCCCAGGGTGTGCTTGTCAAAAAGATATTCCGCCAGNGCCANGATTCGGGCGCTC
CCATCTTGCNGCAAGGTTGNNNCACGGTGGTGNACCCCAATTTCTTTTGATGGCCTTTNA
CCTTGCTCAATTCAGGGTAAATGGGTCNTCCAATGNAAAATCACAACAAAATGGGGGGGN
CA
Sequence 4719
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TTTGGTTAGCTTTGCCAGTTCTGCCTATTATATTAATCTCCCAGAATCAGCTTTTAGTTT
TGTTAAATCTCTGACATGTTTCGTTGATTCCTGCTTTCATCTTAAACATTTCTTCGTTGT
TAATTTGTGTTTGCTATAAAATAAGCAACATCTTAAATGCTTGATTTGCTTTCGATGTTT
ATTCTGTAATAAGATATTTAAAGATATAATTTTTTCCCTAAATGCTTTATTAGACTTTTC
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Sequence 4720
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ACTATGAGATGAGTTCCCGTGATAGGATTTTCTTAGGGAAACCCTGAGAAAGAGTTGAGA
CTAAAGGTATGTGTCATATTTTTTCACAAGGGCAAAACCTGGGGGGAATGACCGTATACA
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Sequence 4721
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CTTTTGAGGGTTGATTGTATTCTATGTCATTTAAAGGGATTCAGGAAGAATGCTTTCATG
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CTGACATTCTCTTAGCCAATAATTCTTTAAAATTTTTCAATCCTGGTCAGGCACGGTGGC
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AGGGCANACTCCTNTCCAAAAAAAAAA
Sequence 4722
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GGGGGATTTTGGCTTTNGG
Sequence 4723

TABLE 1A
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Sequence 4724
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CTATTCTTGTCAATACCAGATTTTAAAAATT
Sequence 4725
CAGCNTGCTCGACGGCCGCCAGTGTGATGGATTATCTGCAGAATTCGCCCCTTAGCGTGG
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GGAATGACATCACCACTGCCCTATGACTCTCTTGGTTATAATGCCCCGCATCATCCCTTT
GCTGGTTACCCACCAGGTTATCCCATGCAGGCCTATGTGGATCCCAGCAACCCTAATGCT
GGAAAGGTGCTCCTGCCCACACCCAGCATGGACCCAGTGTGTTCTCCTGCTCCTTATGAT
CATGCTCAGCCCTTGGTGGGACATTCTACAGACCCCTTTCTGCCCCTCCACCAGT
Sequence 4726
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AAAAAAAANTTTTTTTTTTNGNAAAAAAAAAAANTTTTTTTTNTNTNAAANAACCATTNN
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AAAAAAAAAAAAAAAAAAAAAACCNTNNNGNCNNNNNNNNCNNTNGGGGNGNNATTTTT
TTT
Sequence 4727
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GCAAAGTCATGGAGTTTTTAAAAATTGTTATAATTAAGTAAAANTAAANCTGAATNGTGT
CNAANTNNANAANGNGNANACAATCCCTGAGGATGTGTGTNGGAGCTCCTAATAGCTTGG
GNNAAGGCTATTAACCGTATTAGCTTTAAATGGGTGGTCCCTGCAACCTCTTGTTTCAAA
GAATTTTCTCCAAAACTTGAAAGNTCATCAGGGTTCCANCTGGGCCTGCATTTTCAANGN
NGNCACTTTTAANCNGAAACNGTTGGG
Sequence 4728

TABLE 1A
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CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTNNTTNTTTTNTTTTTTTTTTTTTTTATTTT
TTTTTTTNTTTTTTNNTNNTTNTNNNTNNTACNTTNNANTNNTTTTGCTAATTTTTTAAC
TTACAACCAACAAAAGTGAATCAATANGTTTACAAATGGTCCATGGCACTACAATTAAAA
TAAAAAATATCAAAAGGTCACAGGATCTTANGTAAAGTTTACTGACAATTTCATAAATAT
TCAAAANAAAATTTCAAAATTTGNAAACTTAAATTTGCCTCATTTTAACATTTTTGAAAA
ATTTTTTAAAAATTTACAATGGTTAATTTTTCTCCCCTCTTGGGTATAGTAAACCAATAT
T

Sequence 4729
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TATTAATGAGTGGAGTAAAGCACTCANAAGAACAGNAGGAAAAGAGGATTCATGTATGTC
AGAGGAGCTGAAGGCTCTCAATAGGTTCAGAGAATGCAGGTCTTCCAGCTGCTGAGGGTG
TATGCTTCCACTATGCCTCATANGCATCCCCTGAACAAAGTGGGNGTCTCTAAAGTTCTA
TTAACANNACTCAATNNCTAANCACCTNGTAACCAGGAAAAATATTCCCNTNTGGGTCCT
NNTTCCTTTACATTCCATGNAGTCGGAGAAANGNGAAGGGAATT

Sequence 4730
CCCTTAGCGTGGTCGCGGCCGAGGTACTNNTNTNNNCCTAACCCCTTGGNNAGCCTNNGN
NNGANGATNNCTCGNNATCACNAGTNAGNNACCNGNCNNNNCANCANNCGGNGCCNNATG
NNNACNAANGNTCNTAAAAATNTCNCNGGGTGNGNGNGGGCNCACGGAGATNTACTAGGA
CTTTTACCAGGCTCCAGANGNATGNAGGCCATNTTACCANAGGGTCAGAGGATNCCANAT
GGAGGATNTACAACTNTNANTTTCNCTCAGAATGTATGAGGAAACCCTGCCCCTCCTTGA
GTGTCAATGGAACCTGGACTTGTACCTGCCCGGGCGGCCGNTCGAAAGGGCGAATTCCAG
CACACTGGC

Sequence 4731
CCCTTTCGAGCGGCCGCCCGGGCAGGTCTTGAATGAAGGACTGTGGCTGGATTGGCCTTT
TAGTTTGCCCCCTACATTAGGCCCCAAATTTTCTTACCCTGAGGTGCTGATATCTGTATG
GATGAGTTATTTGTCACTAAAGTTATGAGTTGTGCCTAAAAGTTAAAACTGTTGACTGTA
TTATGTAATGATCAGTATTTCAGTTGGGAAGATATTTTAGAGTCTAGATAATTATGTTTG
TATATTGAAAAAATGGTGGCCAGTTTTTAAGTTCCTTAATAGAAGAGAATTATGTCTCAG
CACATATAACAGTAATGCTAATTTATTGAAACTACTGCTGTTAGAGCACTTCTTATTCAT
TGTCTTTTAGTGAAATTATGGCGTAACACTTTGTCAGAGAGGAGGCTATATAATTTGGAG
CG

Sequence 4732
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GTAGAAAGAGATTTTTACAAGGGTGNGAATACCAGGATGCATGGCTTATTGTAGGCCACC
AAAGAAACAGCATACCNCAGCTATTNAATATGTATTTCACCAGTATNCCACANNTATNTA
ATGNGTATTNNANCAGNATACCACATCTATTNAATGTGTNTTTNANCAGANTACCACNNN
TATNNANNGNGNATNTCANCACNATACNACANNTATGGNNTGNGNATTTNNANAGNATAC
CACNNCNNTTNNATGAGTNTNNCATNNCTNTNCCGCNGGTNTTTAANGNGGGNTAAANCN
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GTCATAGCTATGCCCAGCTATTTAATGTGTATTTCAGCAGTATGCCACAGCTATTTAATG
TGTATTTCAACANTNTGCCACAGCTATTTAATATGTATTTCAAAAATGCAGGCAGCCTTG
CTTTGCATGGNAATGNGGAGCCNTAAAAATGACCATTGCTGCTGAAACTCTGCCAAAGCA
ATGGTAATCATCAGTGAAGGGAAATTTATTATTCTGGGACCTTTNCATTTTTTGNGAA

Sequence 4733
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TTTTTTTTTTTTTTTTTTNTTTTTTNTGTTTTTTTTTCACTTTNTTTTTTTTTTTTTTCNT
TTTTTTTTTTTTTATTTTTCTTTCANCCCNNCNCNCCCGNGNTNTNTTTTNAAANANCNT
NCNACATNTTTGGTTTTTTTNGATATTTTTATTTTAGGNGGGGGNTATTNATAAAAAAAA
AGTNTNTTTTAAAANNGGGCCCTNTTTTTTTNTCCCNCNCGGTNTCTANTNGTTTCAATA
TTNAAAAAAGNGTTTTTTTTTTTAANACACTGGGGGCTTTTACACCNCCCAAAAAAAA

Sequence 4734

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CGCGTCCGGCCTGANNNCGTNGGCGCAGCGGGCCTAGCCTAGTCAACATGCCGGTCGCCA
GAAGCTGGGTTTGTCGCAAAACCTATGTGACCCCACGGAGACCCTTCGAGAAATCGCGTC
TCGACCAGGAGCTAAAGTTGATTGGAGAGTATGGGCTCCGGAACAAACGTGAGGTGTGGA
GGGTCAAATTTACCCTGGCGAAGATTCGTAAGGCTGCCCGGGAGCTGTTGACGCTGGACG
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GGGTGCTGGATGAGGGCAAGATGAAGCTGGATTACATTCTGGGCCTGAAGATTGAGGATT
TCTTGGAGAGAAGGCTGCAGACCCAGGTCTTTAAGCTGGGCCTGGCCAAATCTATTCACC
ATGCCCGTGTGCTCATCCGCCAACGTCACATCAGGGTCCGCAAGCAGGTGGTGAACATTC
CATCTTTTCATTGTTCGCCTGGACTCTCAGAAGCACATTGACTTCTTCCTTNCGNTCTNC
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AAAACATAAAATGAATGCCAATTGGTGGTGGTAA

Sequence 4735
CGGGCAGGTACCTCACAAGTTCAAATTATTGTTTTTTGGGGAAATGTAAAGGAATATAGT
AATATTGAAGACTGTTTCCAGCAACTTGACTTTGTGAAAAATGATTTCTTCTTTGAACAG
ATTTATAAAACCTTAAACATCCATGTGACGTTGGTTGGCATTGAAATATGGACACATGAA
GATAAAATAGAACTATATTCAAATATAGAAACTACCTTATTGCGTTTTTCATTTTGGCAA
GAAAAGATCCTTAAAACACGGAAGGATTTTGATCATGTTGTATTACTCAGGTTGGTGATT
GCTCTATTTTCTTGCATACCTTTG

Sequence 4736
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AAAATGGGCACATTTTAAAAATNGCTTTTCCCTTTTCTTTTTTTTTTAAAAAATAANAAG
TAATTGNGAATNTATNTAAAACCATTTGTAAATATGTNGTTTNTTACTATTNAATAGTAT
GAAAGTAAACANAAAAAAGAATTTTTAGACTTACATCATNNGCTCCATCTACTTTTGGTA
AATTTACATCCTCATCACCACCCATGTNGTTNATCATCTATTNGAAGNGNAAAAATTANT
TTNAAAAATGANGCTAAGTTAGGCCCTAATTATTAATGCTGTNNGCTTCAAAANAAACCT
TAAGTCTGCCACAGATTTAAAAAAATGCAAAATGCAAATATAAACATTTTTCCNTTNNGG
AAAAGGAAAATTATAGGTAATTATACAAAATCCTAAAAACCCATATGGAAATTAAAACTA
AATTTTCCCT

Sequence 4737
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATAGTCTCCTCAGAAGAACTTTTCAGTTATT
TATATTTACTAAGAATGGCTCTACTTTCCACCCCCAACTCCATTTTAATCCATTCTGAAT
TTAAACCATTGTTAAACTTTATTTTTAAATTATGAATGGTAAAGGAGCATTTCAAAATCA
TCTCAATAAACGATCTTTAAAAACATGAGCTTAACTTCAATTGCTTGACATGCCCTTTGG
CTCCTTTTCTTTGGGTCAAGATCCCGAAGATCTTGTTTCACACCAACACTCTCCATTCAT
ACCTGCAAGTGAAAAGTGCCTCAACTTGACACCTTATACAGGTACCTCGGCCGCGACCAC
GCTAAGGGCGAATTCCAAGCACACTGGCCG

Sequence 4738
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GAATNNGAGAAGAGTGGTCAAAAATAGTCTATCTATCTTGAAACCTTTAAGCGCTTTNNT
NTNCAGGATATGGCACAAATTTAATAATTATAACATTNAAAAAATAAACAACAACGCTGA
CATCACTACATATTAAAAGCTGTGGTGTGTGGGAAAAGNGGCATCCNATGCNAAATTTCA
GGCATGAAAGTATTTATCAGAAACTTATAAAAACTGAAAGTAAGTGACCTAAGTCTTCAG
CTTAAAGATANAAATGATTAAAACNGANCATCAAAAGTNTATNTGAACAATTTAAGCNAA
TTTTTATACTNCAAAAATGATCAGATATANACNAGCTTGATTAAGATAAGATGGATGACC
CTNGTTAAATTANCATTAAAAAATGAANTATNAACNACCCAGTTAGACCTTTTAANAAAT
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GTTTTTTGTGGNAATTCNNGATAATTTAAACCCGATTNCNAAGNNANTTAAAAANTNTTC
CNACTTATTTCCCNGGGANNTNGATCCCCCTAAAAAGAAAGTTC

Sequence 4739
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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

TABLE 1A
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TTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGGGGGGGGNANAAAAAAAAAAAANAANNAN
TNATNTTTTTTTTTTTTAAAAAAAAAAAAAANAANNATNNAAGAANAAAACAAAAANATT
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NNANNTNNTTCCCCCNATAAAAAAAANGAAAANNNNATNTAANNNATNAAAAAAAAAAAA
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NNNNGGNATNCNCCCCCCCCNGGNAGGATNGGNGNAANTAATTNTATTAAATTTTTTGAN
NGNAANNAAAAAAAANAAGTAANANNTTTTTTTTTTTTTTTNTTATAAAAAAAAAAAAAA
AAAA

Sequence 4740
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CNGGCCCNAGCGTGGATNCCTTTATGCCTGNCATTNCCANNCNCTTTTNGGGANGGNNAA
NGGCAGAAAAGAATCTGTTTGAACCCCCAAGGAANTTTTAANACCTANGCCTTGGGNCAA
NCNTAGTANAGAACCCCCCANTTNTTTTGNTTTTTTTTTAAAAAAA

Sequence 4741
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CAATTATGAAAGCTGGATAAACAAATACCTGCAGGGTTTATTTTTACTACTTTTCTACTA
TTGAATATATCTGATATTTATATAATAAAAAGTTTAAGTTACCAAAATCTCTTCACTGTC
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TACCAAAGAAGACAGTCAAATAACCAATAAACATATAGAAAAGTGTTCAAGTTAATTCTT
GGCAGGGAAATGCAAATTATAACCCCCAAAGAGGGTCTTCTGCCATNCNCCCAGAATGGG
TTAAAATGA

Sequence 4742
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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAAAAAAAAAAAANNNT
TTTTTTTTTTTTTNAAAAAAAAAAAAAAAAANGGNNNNNNNTTTTTTTTTTNGANAAAAAA
AAAAAAAAANTTTTTTTTTTTTTTNCCAANCNCCCNAAAANTTTTTTTTTTTAAAAAAAGG
GGGGGGGGGGGGNNAAAAAAAAAAAANNNGGGGGGGGGGNNNCCCCCGGGNANNNNANNA
AAAAAAAAGNNTGTNTNAAGGAAAGNNNNTTTTTTT

Sequence 4743
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TTTTTTTTTTTTTTTTTTNGNAAAAAAAAAAAAAATTTTTTTTTTTTNNGGGGGGGGGGGG
GNNAAAANTNNAAAAANNNNNAANNTTTTTTTNGGGGGGGGNCCCCNNTTTNAAAAANGN
NNNNTTTNNAAAAANNCNGGGGGGGGGGGGGNNCNNNNNTTTTTTTTTTTNAAAAAAAAA
NNGGGNNTTTTTTTTTTTTTTNAANNNGGGNNTTTTTTTTTTTTTNCCNGGGNTTTTTTTTT
TTTTTTTTTT

Sequence 4744
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TACACAGAAAGCATAGCAAGGAAAAATTTCCTGGAGTAATTGGTGTCAGTGTCCAGAGCA
GGATTCGTTCAGCCTCCTGAGTTGTCCTCTTCAGCATCCCCCAGGTCCGGGGCTTGTGTC
ATCTGTGGAAGCTGCTTTGTTCAGGGCTGCGGGTACCTGCCCGGGCGGCCGCTCGAAAGG
GCGAATTCCAAN

TABLE 1A
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Sequence 4745
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AACCNCTTNTGNANNCCNTTTGGNCCCCCCCAAANAAANAAAAAAAAAANNAANNTGGNC
NCCTTTAAAAGGNTTTNGCCNNNNTTTTTTTAAAAAGGGNCCNCCCCCCGGGGGNNAAAN
TTAANTTTTCCCNTTNGAAAAACCNAAAATTTTTTTTTTCCCCNGGGGGNCNNTTNAAAA
AAAANATTGGTTCCCCNAAAAAATNTTTTTTTTTAAAAAAANCCAAAACCTTTTTAATTG
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CNCCNGGGAAATTCCNCCCNCCCAATNTTCCNCNTGGGNANANNAATTTTTTTNNCCCCC
CAAAAAAAAAAAAAAAAANGGGGTTTAANNAAAAAANAGGTTNTNNAAAAANAAAATANC
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AAGGNTTGGGGNTNTTNGCCCCCCCC
Sequence 4746
CCTTAGCGTGGTCGCGGCCGAGGTCTTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTTTTT
TTTTTTTTTTTTTTTNGGGGGGNNNNNNNNTNAAAAAAAAAAAAAANCCCCNTNTTTTTN
NCCNGGGGGGNAAAAAAAAAAAANCCCCNAAAANNCCCCCCCNNCCCCCCNTTTGGGGN
AANTTTTNGGGGGGGGGGGGGGGCCAAAAAAANCCNAANNNGGGNNAAAANGGNTTTTT
TNGGGGGNAAAAANNCCCCCCCCCCC
Sequence 4747
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GAAGCCGCGGGTGATAGTTTATGAATTTCAATATTAAAAAAGAAGCCTTACCCTTTCAGA
ATGTCCCCCTTAAAGNCCCGAAAAA
Sequence 4748
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GGAAAACTTTTATGAATAAAGACACAAGAAATTAGCCTTTCAAAGTAAAGTTATTCATAA
TGTATAAACCCATTTGTACCTCGGCCGCGACCACGCTAAGGG
Sequence 4749
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GTTTTCTTGNTTCATATTTTCATGTTCAAA
Sequence 4750
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TABLE 1A
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CCNCCCCCCNNAAAAAATTTTTNAAAAAAAAA
Sequence 4751
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGACTCCAAGTCCAAAGCAAATACCCATGGC
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TCCCTACCTCACAACAAGAAAAAATTTCCTAGATGGGACAATGGCAAGATATTGTGCTAA
TACATTTCATAGGATTTCTAGATGCTGGGCTATAACATCCAGGTTACAATTTGGTGACGG
ATTTTTTTATTTCTATTGCAAATGGACTACACTCCAAACACAAAAAGATTCTTGCCATAG
CATCCAAACATCCCTATGTAGACCCACACTTCCTCTCAATACAGAAAGAGAATCACTCAG
AAAGGACAAAGCTGGCAGACCAAGAAAGGAGGCAAGGGTAAACTCTGTCACTGACCAATT
ATCTAAAACAAAAATAGCAGCCTCTGTTATCAAAGTTGTCAGTTAAAACTGTCAGCTGTC
AGGCCAGTGACACACACCTGTAATCCCAACACTTTGGGAGCCCAAGGTGGGGTGGATCGC
TTGAGCCCAGGAGTTTTGAGACAAGACTGGGCAACACAGANAAACCCCATCTTTACAAAA
AATCAAACTTAACCAGGTTGTGGTGGTGTGTGCCTGTAATCCCAGCTGCTTAGGAGGATA
AGGNGAGANGAACACTTGAACCCCAGAANGGAGGGGTTGAAATGAANCATGATCATGCCC
CTGNACTTCGGGCCGGGGNGACAAANGGGAGACTCTGGNCCAAAAAAAAAA
Sequence 4752
CGTGGTCGCGGCCGAGGTACTGGAACCCAGGACCAGGAAAAAACTAAAGGGTGGCTGAGG
ACACATCACCCCATAGATTTTTCCAAACCAAAACCTTGACCCAAAAACATTCTGATAAAT
CTCTGTGCCTANAGAAGGTAAAAGGAAAAGAGACACAGAGATTTTCTACAATACAGTGTC
AGAGGATTAGTCTTTGTTTCCTTTTCGTGGGAAATATTTACAAGCGGATAACACATCTTC
TTAAAAGCGCCATTTAATGCTTTGTCAAAAACAATTAATTAAAATATGGTATAAACAAGT
ACCTGCCCGGGCGGCCGCTCGAAAG
Sequence 4753
CCCTTAGCGTGGTCGCGGCCGAGGTACTGAGGAGAGCTGGGGAGGCCAGTGTGCCTGCAG
TGAAGGAAGGAAGGGGAGGGTGATTGAAATGATGTCAGAGGGGCAGACGGTTGACCTGTC
CAGGGCTTGTGGCGAGGGGAATCAAATCATTTATTCTCCACACCAGCATACTTCAGAANG
TGNACAGGGGANCCATTGNTCATTGTAAGTATTGTACCTGCCCGGGCGGCCGCTNNAAAG
GGCGAATTCCAGC
Sequence 4754
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CTTTNTTNGCTTAACANAAAAAAAAANNGANTAAACTTNAGAAATAAACGAANGTTTGNG
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NCTTATGCTTAACC
Sequence 4755
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ANGGNAAAACCTGGTTCCTTGGGGNNAAANTGGTATTCNGNTCNAATTTCNCANAANNTT
TGAGCCCGAAGCNTNAAANTGNAAAGCCCGGGGG
Sequence 4756
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TCGCTCTTGTCACCCCAGCTGGAGTGCAGTAGCACGATCTTGGCTAACTGCAACCTCCAG

TABLE 1A
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CAGGCTGGCCTCAAACTCCTGACCTCAGGTGATCCACCTGCCTCGGCCTTCCAAAAGTGC
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TCTCTTCTCCTATCATAAAATTAATTTCTCATTTTTTGGTCAGGTAGAATTGGGAAAGTC
CCACACTGTCCTCCTATTACCTTAACATTCCAAGCTTCCTTTNCTTTTTTGGNCTTTATG
AATATATTTATATGGGCNGAATTTAGATTAACAAAATTGATTGGCCCATTCTTTACTTTC
CCATTTTGNTTTTCTANAACCCACAAAAGTTAAAACTTGGGAATTCCCTGGCCCCCCANA
ACACTTGTATTTTGTTGGTTGAAGGTTCNGNCCCAAAAACAAACACAGTTTTAANTGCAC
ATACAAATGTTGGCNGGGATNTTCCCTGGAAATTTATTTAACCGGTTTTTGGTGGGNGGG
GGGTTTTTTGGG

Sequence 4757
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ACTAGGAAAGACATGGGGAGCTAATGCGAGATAAGAGCTACTGTAGTGAGGTCAGTTTAG
GCAAATTCGTCTTCAAGGATAAGAATCACTCTTCTCTCCTTGGTGCAAGGCGTGGGGGGC
ACCTTTCTCTAAGTGAAATTATATTTATTTTTATGGTCACCCTCTGTTTATGACAAGCGA
TACTTGTTTTCCCTATGCCAGAGGGATATGAATTTCCTTCTTAAATAAACCCTTAAATAA
ATAAATTTAGGCCAGGCGTGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAAGCCAAG
GCAGGTGGATCACCTGAGGTCAGAAGTTCGAGACCAGCCTGGCCAACATG

Sequence 4758
GGTACATAGCGCCTTGGTCTAGGCCAATAATAGGTCGATCTTCCTCGCCAACTCATATTT
CACACAGATGAATCTCAGTAGAGGAAAAAGAGTCCGGACGGCAGGAACCACACAGCACTG
CCTCACAGCTCCCTGGCGTTCTTCCCCGCGTACACAGAGTGGTCTTTTCAACACTCCTCC
CCCTACTCCACCGGACCTCAACCAGGACTTCAGTGGATTTCAGCTTCTAGTGGATGTTGC
ACTCAAACGGGCTGCAGAGATGGAGCTTCAGGCAAAACTTACAGCTTAACCCATTTTCAA
GCAAAACAGTTCTCAGAAATGTCATGATTGCCGGGGTGAAGGCAAGAGATGAATTGCATT
ATTTTATATATTTTTTATTAATATTTGCACATGGGATTGCTAAAACAGCTTCCTGTTACT
GAGATGTCTTCAATGGGAATACAGTCATTCCAAGAACTATAAACTTAAAGCTACTGTAGA
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GGTCCCCAATATCATGTGATTTTTTTTCCTCCCCTTTCCCTTTTTTTGGTTATTTTTTTT
AGACTGNGCCAATAACTTTANANGAACCCTTTNGCATTTTTTNTCATTTCCCATGTGGGN
AAAAGGGATGCCCCNCATACNGGCNTAANNAAAAAAAATTT

Sequence 4759
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GCTTATATGCGTGCGAACAGCTGGGGAATTAATTTGGTATGCATTCTCAGGAGCCACTCA
TCTGCTGGCAGAGGTAGCAGAAGAATGCCCTTAGTGTAAATCCTCTACAACCATACACCA
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Sequence 4760
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGTGACCAGGCCCAGCTAATTTTTGTATTTTT
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TCCGCCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCAACGCCTAGC
CTCAGAGACTTCTAGTAACATCATATAGTTAGTAAAGGGGACAGCTGGTTTTCAAGTAAA
GGTCTGTTTGATTTTTTCTATTATAGAAATCCTTTCCCCTTTCTTAATGTCTCTTTGGTA
TTCTTGAAAAAAACAAAAGAGAGCCAACAAATAAAAGTAATTCCTCAGAATTTATGCTAA
TTTTGTAGCAATATAACTTGCGCATTTGATTGCTGCTTGATTTTTAAAATCAAATATTTT
CCTACATTGCTTTTTAAGGGCAAGGTGTGTCCTGTGAGTGTTTCTCACTGTTAGACTAGG
GCAGAAGCTCAACAATAACAAAAAAGGCTGGTGACTAGGAATCCTAATTTCCTTNCAACC
AGGGCGTGTGATAACAAANACACTTTTCCTATA

Sequence 4761
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGATGTCCAAAAAAGCACAACAATTTAAGA

TABLE 1A
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CTTTGGGCACTTTATGTAGCAGATATATAAAAAGCAAAGCAGGAATTAAGAGCAAATGAA
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GAAAAAAACTAACTTTAAATAAGTTAATTCTATGCTCCTTGAACGCCTTAAAAAAAAGAA
Sequence 4762
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TTTAGGGATTTTCAAAAGGAGAATTGCTTGAACCTGGGAGGCCNAGGTTGCGGTGAAGCT
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Sequence 4802
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Sequence 4803
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TTAAAAAAAAAAAAAAAAAAGAAGTTTC
Sequence 4804
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CCTGCAAGAAATAGAAGAGTCACTCAGGAGTCACGGAGTGCTGTTGGAAGTTCAGTACCT
CGGCCGCGACCACGCTAAGGG
Sequence 4805
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CAAATCTTTATTCTCTAGTTTGAAAAGGAGGGGTAAATGGTTGTTCTGTTTAGTTCCAGA

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GAACAGAACAAGGCCCAATAGGTAGAAATTNTAGGAAAGCANAATTCATTCATTATAAGG
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Sequence 4806
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Sequence 4808
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Sequence 4812
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Sequence 4817
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Sequence 4818
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Sequence 4819
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AAAAAAA
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Sequence 4825
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Sequence 4826
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Sequence 4827
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Sequence 4828
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Sequence 4831

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Sequence 4832

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Sequence 4833

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Sequence 4834

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Sequence 4835

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CTTTTTAGGACAGATATTATTGCATCACATTTATTTATCTTTCTGGGNATTTTTATAGCC
CTTAATAAAAAATTTTTNAATNNNNNNNNNNNNNNNNNNTAAAACTAAAAAAAAAAAAA
AAAAAAA
Sequence 4840
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ATCAAAACCATGACANGACATTTTACCNTTTAANTACTTNNNATAACTAANTACTCTTTA
AATATTTTTATTTCAATACTGTGGATGGAAATGAGAAGCATTCTAAATTTNAGTTAATAT
ATTTTTATGAANATATTTGAGAAAAGAAAAANATANCTAGGTATNCANGACCCATGGACA
TGCTCNTNNTNATGGACNTATNTANGTTANCTAATTTGGCCTTTTAAAAAANGNGTANNG
TTGTTTATTATAGCTACTTTCAAGGGAAAGTTTGAATATNATTCTAGTCTCTAAAGTTCT
TCACGTTTTTCTGACATTCCCTGGANGGTGACTGGGGAAAAAATGGCTCCAGGGNTNTAA
NTCAACCAANGCCCAAANACTTTACCNTTCTNATCTTANAGAACAAAANGGATACCTNAA

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TTNANGGANCTTTTTTTTCCCCNTTTTTGGNAAACAAGGTNAAAAAAAGNCNTTTTNNCT
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ATATTTTCTNNAGNATTGNGCCTNAAGAAAATTCNNTTTTTTNNNNTGCCCNANNAATTA
TAAAAATTTTTNTNNTTTTTTNNTGAATANGNNNAAAANAAAAACAAACTTNTTTTTTTT
TTTNTTTTAAAAAAAAAAAAAAAAAAAAA

Sequence 4841

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GGTACCGCAACCTTCGTCCAGGCCCTCCAGAGCGTGCCGGAGACACAGGTCAGCGTATTG
GACAACGGGCTGCGTGTGGCCTCGGAGCAGTCCTCGCATCCTACCTGCACGGTGGGAGTG
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GAGAGTATTGGCGCCCATCTTAATGCCTACAGCACTCGGGAGCACACTGCTTACCTCATC
AAGGCACTGTCCAAGGACCTGCCAAAAGTTGTGGAGCTCCTGGCAGATATTGTGCAGAAC
ATTAGTCTTGGAAGACTCGCANATTGAGAAGGAGCGAGATGTGATCCTGCGGGAGATGCA
GGAAAAACGATGCCTCTATGCAAAATGTAAGTCTTCGATTACCTTGCATTGCAACAAGCA
TTTTCAGGGGCACAACCTTTTAGCCCAAGCTTGGTGGGAAGG

Sequence 4842

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AAAAATGTAGGCAGGCATGGTGGTGTGTGCCTGTAGTCCTGGCTACCCAGGGGGCTGAGG
TGGGAGGATTGCTTGAGCCTATGAGTTCAAGGCTGCAGTGAGCTGTGATTGTGCCACTGC
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ATAAACTTGCTCTTGGGTTTCNTGGGACAANAATNAACTNCAATTCNTTTTTTGTTAAAN
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TGAACATTAANTCCTTGACCTTNNCCNAAAAAATTCCAAAANCCAAGGCCCTTNAAAAAA
AATNAAATTCCAAACCCCTTCCCNNCCAAAANTNCNCTTTTGGGCCGGGNAANCCCNCTT
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GGGNCCCNNNCNTTNGGGGAAAAG

Sequence 4843

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AAAAAAAACAAAAGCAAACAAACAAAAAAAAACAGATTTTCTCACAGTTGTGGAGACTGG
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AGGAGAATCACTTGAACCTGGGAGGCAGAGGTTTCAGTGAGTCCAGATCATGCCACTGCA
CTCCAGCCTGGGTGACAGAGCGAGATTCTATCTCAAAAAAAAAAAAAAAACAACATAAGC
AAATGAGAGTGCCTGGGAGTGGTCATTGTGGGGCATTTCTGTTCGTGTGACCCAGGTCAT
GTCCCTCCCTAAGCCCTGGTCTNTCTTGCCTCCTGCAGGGCTGGTGAAATTACCATATCT
CCGTCAAGTGCAGTAACCAGTTCAAGTTGGAAAGTGTGTCTTTTGAAATCATACAACAAA
GTTTGNGGACAACCAGGCCTGGNGACCCAAGGGC

Sequence 4844

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AAAAAAAAANNNTTNATNNCNNNTTNAAAAAANNAANAAAANANNNAANCGNNTTTTTNA
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Sequence 4845

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TABLE 1A
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GACCTGCTCCATCATNACTACAACTCAAAAGTTCTTCACAATTTGGCCTCTGTGATCCTC
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ACCTCCCATNAANAATATTTAAGTTTTTTTTTAAACAGTGACATCTNTTGGGAAAAATGG
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Sequence 4846
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Sequence 4847
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AAAT
Sequence 4848
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NNNNNNNNNNNNNTTTTTNAAAAAAANAANNNNNNNNNNNNNNNNNTNTTTATTANAAAA
AAAAANCCCCCCCCNTTTTTTTTTTTTNNTAAAAAAAAAAAAAAAAA
Sequence 4849
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GGGNTNANNAANNAAANNNNNNGNGGNAAANAAGGGGGGAAAA
Sequence 4850
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AACCATGATTCAGTTGTGTAAAAGAAAATCTGTAAGGAGATATGTGAAAAGATTGGTTGC
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CAGCCTGGCTAACATGGTTGAAACCCCGTTTCTATTAAATATACAAA
Sequence 4851
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CGAAGGCTCATCATTCAAAATAAAACAAAATAAAAAAGTATTAAGGCGAAGATTAAAAAA
ATTTTGCATTACATAATTTACACGAAAGCAATGCTATCACCTCCCCTGTGTGGACCCGCG
TACTTGAAGCTTTCAATTTAAGTGGACCTTCAGGCTGGGAAGACCATTTCTCTGTTTTAT
CCTCCATGCTGGCAAGGTCATGTCCTGGCTTGGAAAGAGGAGTCTCATCTATTTCTCCTG

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GAAGAACCTGGGTT
Sequence 4852
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GNNNNGGGNCCCCNTTNAAAAAANATTTTNGGANCCCNTTTTTGGGNCCCCCNTNAAANA
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AAAANTTTTTTCCCCCCCC
Sequence 4853
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AAANGGNTNAAAAATTTTTTNTTTTTTAAAAANGCCCCTTNCNGGNAGGGGGGNAAAAAN
AAATTNANNAAAACNAAAAANTTNCCCTTTTANAAAAAAAA
Sequence 4854
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GGGGCAGGTGAGAGGGCAGGGAAACCCCTTCCTGCCCCAGCAGACGCTTCTCCTCATCGG
CCAGGAACAGGGTTTGACAGGGCAGCTGGGGGTAGGGGCAGGAGAAGATGCAATAGGAGT
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Sequence 4855
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Sequence 4856
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TTGGCGTATCATGGTCAT
Sequence 4857
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GTATCTTACCAAACACAGTGGCTCATGCCTGTAATCCCAGCACTTAGGGAGGCAGAGGCA
GGANGATTGCTTGAGCCCAAGAGTTTGAGACCAACCTGGGCAACATAGT
Sequence 4858

TABLE 1A
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GGGGNTTTTTTTTTNNGGNNNNNNNGGGGGGGNAAAAANGGGGGCNTTTTTTTNAAAAAN
AANAAAANGGGGNTCCCCNCNNAAAAAAAANTTTT
Sequence 4859
TCGACCCACGCGTCCGACAGGGTCTGATCTAGGGAGAGGCCAACTCTGATACCCCTATGT
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CTTTTGGTCTACATGATCACAACATGCAGTGCCCGGGACAGAACAGACCTGCTCAACGTT
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TGTAGTCCATGGAAGAGAAATGCCTGCTGCTCAGTCAACACCAGCCAGGAGCTACACAAG
GACAACTCCCGTCTGTACAATTTCAATTGGGATCACTGTGGCGAGATGACGCCCGCCTGT
AAGCGTCACTTCATCCAAGACGCCTGCCTGTATGAGTGTTCCCCCAATCTTGGGCCTTGG
ATTCAGCAGGCAGGCCAGAGCTGGCGCAAAGAGCGCTTCCTGGATGTGCCCTTATGCAAA
GAGGACTGTCAGGAGTGGTGGGAAG
Sequence 4860
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CTATGTGCTGTCTTTCCTCAGGTAAGTCCATTATATGCATCTAAGTGCTGGGGAGGTTTA
AATAGCACTTAAAGAATATTCATGAGAGTTCTGAAATGAAGGTTTCGTCTTTAGCTATTG
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Sequence 4861
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NCCTTTCTGACTCTNTTCCGCTTTTGGGTTGGTCTTCTAACAGTAAGGNATGCTTGTAGG
TGTGGCTGGTTNTGATCCACACAGTGGAAGGAGAAGCTCCTCATCCCAGCTTCTGGGTGC
CTGTATCCCCACCTGATATGTTGCCTGCTTNCGCCGATGAAGTCTAATAACCTTCCCCCT
GCNATTCCCCTAAAGAGGGAAAATAAACTT
Sequence 4862
TTCCGCCCTTTCGAGCGGTCGCCCGGGCAGGGACTTTATTTTTTTTTTTTTTTTTAAAT
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NCNNCAAAAAAAAANNANAANTTTTTTTTNNNNNNNNNCCCCCCCCCCCCNNNGGNGNNTG
NNANAAAAAAAAAAA
Sequence 4863
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AAAACTGGAGTAGCAGTATTGATATCAGATAAGGCAAACTTCAGAGGGAGAAAAATGATC
AGGGATAAAGAGGGGCATTATATAATAAGAGGGTCAATACTCCAAGAAGACATTGTTAAA
TCCTTAATGTGTATGCACCTAACAACAGCATCAACGTATGTGAAGCAAAAACTAATAGAA
CTGCAAGAGAAATAGACAAGTCCACTATTATAGTTGGAGACTTCAACACTCTTCTATCAG
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GTCAAGCCACTGAATCTAATTGACATTTACAGTATACTTCATTCAACAGAGTACCTCGGC
CGCGACCACGCTAAGGG
Sequence 4864

TABLE 1A
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ATATACTATTTTTTTCCTTTTTTAATTCAGTTTTTTAAAAAAACAAATGTATTGTGGCTT
CCAGTTACCAGGTTGTCTAGGTAATGACAGTAAACTGACTGTAGAATGATAATTGTGGTA
TAGTGACCAATAGATGCCAAACAGCTTGTGGCCTCACTAAAGGTGGGGTCCGCTTAGTCC
CCGGGAGTAAAATGAGTGACCTCAGAAACAAGAATTCCTGGAAAGGCACATGCCGAAGAG
GAATATGGTATAATTTTAAATTTTAATGCNAAAATTTTAATTTGGNCTTTATTTTT

Sequence 4865
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TCATCAGCTGCTTCTCAAACCAGCTACACTACATAAGGAGGAGCCCAAGGGAAACTGCAG
GACAACAGGTCCACTGGGAAACTTCAGGGGGCCAAGCTGTCAAAGACAAGCACAGAAAAA
TTCCTGCAATGTGCGTTAGACCTTGAGGCAGCTTTTAATGGCAAAAGTCAGTACCTCGGC
CGCGACCACGCTAAGGG

Sequence 4866
CCCTTTCGAGCGGCCGCCCNGGCAGGTACAAAAAGTAGCCGGGCGTGGTGGCTGGCATGT
GCCTGTANTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCTGAGAGGCG
GAGGTTGCAGTTAGCCAAGATCACGCCATTGCACTCCAGCCTGGGCCGACAAGAGTGAGA
CTCCATCTCAGAAAAGAAAAAAAANAANAAAAAANAAAATANGTACCTCGGCCGCGACCA
CGCTAAGGGCGAAATTCCAGCACACTTGGCGGCCGTTCTAAGTGGGATCCGAGCTCGGGT
ACCAAGCTTGGGCCGTAATCAATGGGACATAGCTTGTTTCCTGTNGTGAAAATTGTTTAT
CCGGNTCACAAATTTCCCACACAACATACCGAGCCCGGAAGCCATAAAAAGTGTAAAAAN
GCCTGGGGGGTNGCCCTAAATGAAGTGAAGCCTAACTCAC

Sequence 4867
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TTTNNCAAANNGNGGGGGGGTTTTTTTTTTTTTTTTTAAANAAACNNGGGGNNAAAAAAA
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NAAAAANTTTTTTTNAAANCCCCCCNCTNTTTTTTTTT

Sequence 4868
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CTTAGTGCGAGAGCTGAAACATCTAAATAAATAATGACATGCATTTATCATCAAAAAAAA
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Sequence 4869
CCCTTAGCGTGGTCGCGGCCGAGGTACATCTAGGTCCGGCGTGGTGGCTCACTTTGGGAG
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TABLE 1A
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NGGGGGANAAAAAAANACTCCGTTTAAAAAAAAAAAAAAAA
Sequence 4870
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CACGCCATGGTACGCGGGTCGGAAACCACGCGTCCTACTACAAAGATGCTCTGCGGTTTT
TGGGCTGTGTTGACATCAAGGATCTACCAGTGTCTGAGCAGCAGGAGAGAGCCTTCACGC
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CTGTGCTGGAGTCCCTGAGGAATACTG
Sequence 4871
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ACTTTTAGACAACCTCTTAAATGGAATTACACTATGGAAAACAGGGCTCCCCCAAAAACA
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TTTAACCCCTGCCCTCTTTAGCTTTCACAAAACATTGGTCCACAAATTAAATTTTCAAAA
AGT
Sequence 4872
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Sequence 4873
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TCCCGGGTTCAAGCTATTCTCCTGCCTCAGCCTCTTGAGTAGCTGGGATTACAGGCGTGT
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T
Sequence 4874
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GAAACAGTGACAACTTAAA
Sequence 4875
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGCTCGCTCANATCCTGCCAGGTCAATGAGTG

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ACATCTTGGCAATACGGACATTTTGATTGATACTTGCTGTTTTGTCTTGTTGTCGCAAGT
AAATTTGGAAAACAGCATGAGAACGAGAAGATGTGGCATTCATATCAGTGGGATGTTGTG
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Sequence 4876
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AGCTGCCAAAATACATGAAGGAAAAACTGTCATAACTAAAAGGAAAAAGACAAATCTACA
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GAAATAGCAAAGAGGTAGAACT

Sequence 4877
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AATAGACATCCTAATACTAAGCAGGCTTTCTAATGGGAGGCTTTAAGTATGGTGATGAAC
AACCACGTTCTGACTGGCGTAGTTATCGTAGGAATCTGGACATGCTGTGTTANAATTGAC
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Sequence 4878
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Sequence 4879
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Sequence 4880
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Sequence 4881
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AAAAAAAAAA
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Sequence 4887
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Sequence 4888
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Sequence 4889
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Sequence 4891
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Sequence 4893
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Sequence 4894
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G
Sequence 4895
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Sequence 4896
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Sequence 4898
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Sequence 4899
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Sequence 4906
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Sequence 4907
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Sequence 4908
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Sequence 4909
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TABLE 1A
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Sequence 4913
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Sequence 4914
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Sequence 4915
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Sequence 4916
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Sequence 4917
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ACCCCAAAAAA

Sequence 4918

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AGGG

Sequence 4919
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GCTGGCACAATGAAGTTTCTCCTCGTGCTGGTGCTGCTTGTGTCCTTACAGGTATCTGCC
TGTGGGGCTGCTCCCATGAACGAGAGCGAATTTGCTGAATGGTACTTGTCAAGATTTTTT
GACTATCAAGGGGACAGAATTCCAATGACAAAAACAAAAACCAATAGAAACCTCCTAGAA
GAAAAACTCCAGGAAATGCAGCAGTTCTTTGGGCTAGAAGTAACTGGGCAACTGGACACC
TCAACTCTGAAAATAATGCACACGTCTCGATGTGGAGTGCCTGATGTACAGCATCTTAGA
GCAGTGCCCCAGAGGTCAAGATGGATGAAGCGGTATCTCACTTACAGGATCTATAATTAC
ACTCCAGACATGAAGCGTGCGGATGTAGACTACATATTTCAGAAAGCTTTTCAAGTCTGG
AGCGATGTCACTCCTCTAAGATTCAGAAAGATTCATAAAGATCATGGAGACTTCTACGAT
TTTTGATGGCAAAGGTGGTACCTTAGCCCATGCTTTTTA

Sequence 4920
CCCTTAGCGTGGTCGCGGCCGAGGTACCAAAGACACTTATTATTCTAACATGCATCAAGT
AAAGTAAAACAAGGAGAGAGGCTGCGGTGTGTGGGTAGGGGATGCAGGAGAAGCTGTGTA
AGGTAGTGGACAGCTGTGTGGCTCTGGGGATGAGACAGACTAGACCAGGCAAGTGCTTNA
GGCAGGTGCCCCGTCGGGAGGCCTNTGGAGTTACTCATCTTGCAGCCTCGGGCTACTCAC
CATCAGGGAGCCCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 4921
CCCTTAGCGTGGTCGCGGCCGAGGTACCAAATGAAAGGGGCACCATTTCAAGAGCACTAG
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AGTCTTAAAGAAGCTCCAATAACTAAAACTACATTAACAGGCACGATGAACAGTGTAAAC
ACTGTTAATGGGCACCAAGTTTAACAGGGCAGACAATATTTGCTTCTGCATTCACACTTA
TTCAATTACATTTTTTAAAAAAATGATGCTGCTTAAACTATTAATGTTTTACCAAAAAAA
TAATAATTTTAATAAATACAGCAAATGCTAGAAATCTGGCTAGGTTATCATGCAAGGTAT
AACCAAGACAAACTCAAATTTATAATAAAGGCAACTTGCATTCAAAATGAACTCTACCCT
TATATTTTATTAAAAGGGCAAACATCATGAATTAACCCAGCCGCTTACTTGAATTACAAA
AGTAACATGATTCAATATGAAAATAAGAAACTGTCTACAAATCTCTGACAGTAATAAATT
GCAATATACAATGCATACAGGAGTCATACAGAGCAACAAACTCTCGTACCTGCCCGGGCG

Sequence 4922
CCCTTTCNAGCGGCCGCCCGGGCAGGTACTTTGGGAGGCATANGCTGGCGGATCGCTTGA
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NAAAAAAAAAAANNNAAATTNCCCCCNNGGGGGCCCCCNCTTTTTTNGNCCCAATTTTTT
GGGGCANNGAGGGANNNNNNTTNNCTAANCCCGGGNGTNGCTGGGGNAGTANACATAAAA
ACTCCCNNNANCNCCCNNGTTGNNTAAAAATAGGAANATTTNGNNCTATATTNAAAATAC
ATANA

Sequence 4923
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGATGGGAAGGGTCTTGTGTTTTAATGC
CAATAAATGTGCCAGCTGGGCAAAAAAAAAAAAAAAAAAAGTNCCTGCCCGGGCGGCCAA
GGGCN

Sequence 4924
CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG
TCCTTTGTGTGAGTTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG
CAACAACTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT
AGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTCGCGGCGGAGTG
GTTGGCCAAGTGCTGCCTAATAATTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATCA

TABLE 1A
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GCCATGGTAGATTATGGTTTCTGAGAACAGATGGGGCACACAATTCCTAGTGTGCCCATT
AACAGGTCTTCCAAAGTACCTGCCCGGGCGGCCGCTAAGGG
Sequence 4925
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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTNTTNGTTTTTTTTTTTTTTTNTT
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CAAATTTGGNGAAAACAANNNTGANNANTTTTTTTTTTTTTTTAAAAAAGAATTNNGNNT
GNNNGNGCCCAAAAAAAAAANAAGTTNGGGNTGNNCTNCCNNNTTANNTAAAATTTTTTG
GNGGNGNNCTTTTTCCAAAAAAANTCTNGGNAANNAACCNCNAAAAAAAAAATCTNNNCC
ATTCCCCCCAGATNNNTTTGGGAAANCCCCTTTGGGCAAAAAAA
Sequence 4926
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AGTTCTGGAGGACACCACANACCANCTCTCTATTCTGAACTACATNATGCCCGTTCAGTA
CCTGCCCNGGCGGCCGNTCNAAAGGGCGA
Sequence 4927
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GTTCTGTGAGATTTAAGAGCAATAATCAACAGTTCTAAGCCTAATAAAGAGAGCTCTTAA
TCAGCTCAGTGGTGGTTAAAACCAGCTATCTTTTAAAGAAGAGAAAAAACAAAACACAGC
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CGCCTGTAGTCCGAGCTGTTTGGGAGGTTGAGGTGGGAAGATTGGTTGAGCCCAAGATTT
TGAGGCTGCAGTAAGCCATAATTGGTACCTTGGCCGCGACCACGCTAAGGG
Sequence 4928
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NAAAAAAANNNNNNANNNCCCCCCNGGGGGNNNGNAAAAAAAAAAAA
Sequence 4929
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AAGGCATACAGGCATTTTTTTAATTAAAAATAATAATGATAATGATTTAAAAAGTCANAA
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TNTACTGCTTGGGTTCCCTTTTCTCCAACTTGATGCTTGGTGGATGCCGCTTGGCGCTGC
AGTCACTGTGAGGCAAGATTGAGAAATTCCTGGTTTGATGGGT
Sequence 4930
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GCCCGGCTAATTTTTGTATTTTTAGTAGAGACGGGTTTTCACCGTGTTGGCCAGGCTGAT
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TABLE 1A
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CATGAGCCTGGTTGAGACATGGTTATTTCATCGCAATATCTTGGGGAACCCATGAATGCT
CTGAAATGCCTTTGGTTTANAAATGGATGAAGGAGAGGCCATGGAAATATTTANACCTTT
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TGTC
Sequence 4931
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TTATGTAACCACAGTGTAATTATCAAAATTCACAAATAGTGTTACAAAACTATTATCTGA
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NANANANNATANANNNANANNNGGTNCCTCGGCCGNGACCACGCTAAGGG
Sequence 4932
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CGACCACGCTAAGGG
Sequence 4933
CCTTACGTGGTCCGGCCGAGGTCAGTGGACAGTCTCAGCTCACTGCAACTTCCGTCTTCC
AGGCTCAAGTGATCCTCCCTCCTCAGCCTCCTGAGTAGCTGGACCTACAGGTGCTTGTCA
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GCTGGTCTTGAACCCCTGAGCTCAAGCGATCCGCCAGCCTTGNCCTCCTAAAGTGCTGGG
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ATCATTACAGCAGGTTTCTGCTTTGCATACTGGATATATTTGCTAATTAAACTCAGCAAA
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CACTGGCTGCTCCTTTTCCGTCTTTTT
Sequence 4934
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GAAGGTTTATCACGTGCTTCTCAGGAAAAGATCAGGCTGAAAAATCCCGCCGCTGAGAAA
AAACAATATAAATAAAATGATAAGTCTACAGGCCAGCTAAAAGATAATTAGGAAATAACA
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CGTGAAACCCTGAAAA
Sequence 4935
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GAAAGTNAACAAACAAAAAACTAGTTCAAAGCTTTGTTTCACAGTGGGCANTNTNTTANC
GCCAACAAAACAACCTCAATTTATTGCTTCTATTTAAAAATGTTTTAANTTTATTTATTT
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NCNAANTCTGTNGGTNAAAAAACCTTTTTGGGCCCNCCAATTTTCAATTTCTTCTTTTTT
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TAATTTTAAA
Sequence 4936
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GTGGAACGGCTGCTTTTGGAAGACTATTGCCCAGAAGAAAAGATGTTTGGTTTTCACAAG
CCAAAGATGTACCTGCCCGGGCGGCCGCTCGAAGGG
Sequence 4937

TABLE 1A
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GGCCTTAAAAAAAAAAAAANTNNCCCCGGGGGGGGGGGGGATCCCTNNAANCCCACTNCN
TNNGGGGGTTGNGGCAAAAANTNTTTTNACCCCGGGNGGCAANGNTTGCNNTNGANCTAA
ANTAACCCCNTTGCNCTCCACCCGGGGGCAAAAAAAAACNCCCNCCCCAAAAAAAAAAAA
AAAAAAAAANTTTTTTNNCCGGGGGGGGNTTT

Sequence 4938
CCCTTAGCGTGGTCGCGGCCGAGGTACTAAGTCTATCGCCATGCTGTGTCACGTGGGCAG
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TTCCTTTGCCCCATTTTTCTTCCTTATTTTTTATGTATGTTTACCTTGCCCTGTAGGCGC
ATTTGTAAGCTGGCTCAAATCCTTTTGGGAACAAGGTGGGTTATAAATGCACACGTTCCT
ACACAGGATGTTGTTAGTCATTTCATAAGGTCTCTTGTGGAGGAGATTAGCCAATAGCTT
CTTTTGTAACCTTAGGCACACCCTCCTTCCATAAGGGTCAAGTGAGAGTATGGGTCTATA
GGGTCTGTGAGGGGCCCAGCAACTTTGACAGGCTGAGTATTCTTCTATTTCCAACCCGGT
TAGAGTCACACAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 4939
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NAAANANNCCCCCCNNNAAAAAAAAAAAAAANTTTTNNNAANNGNNTTTTTTTTTTNAAA
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AAAAAAAAAANNCNAAATTTCCCCNNTTTTTAAAAAAAANTNNTTTTTTTANANNNANAAA
AAAAANNTTTTTTTTAAAAAAAAAATTTTTTTTTTTTCNNNGANAAAAAAAAAAAAANNC
NCCCGGGNNTTTTTTAAAANAAAAAAANTTTTTNCCCCCNAAAAAANNGGGGGGNNNNNT
TTTTTTTTTTNAAAAAAANNATTTTTTTTNNNAAAAAANNCCCCCCNAAAAAACCCCNTN
NAAAAAAAAATTTTTTTNANNGGAAAAAAATTTTAAAAAAAAAAAAAAACNNTTTTNTTT
TTNNCANNGGGNGAGNANANAAAAAAAAATTTNGAAAAAAATTTTTTTNTTTTTTAAAAA
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NCCTTTTTTTTTT

Sequence 4940
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CAGTATTGGGGGAACT

Sequence 4941
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AAATTTACAATGTATTTTGTCCAGTTACTGAGATAAATACCTCTACTTTTGCACCTAGAC
ATTTAGGAGCCATTGTTTACTAAATTCATTTGATGCTGTCTTCTAAAAGAACTAAAATCT
AGCATCTCCTCTTCATACCTCCTGCCACTGTCTTTCATTTTCCATACCTGGAGTTATGAT
AGTAGATTTTTAACGAGCTTTTCCCGTCTCTGTCTTCTACCTAGATCCAGTATACTTCTG
CAGGCTGGTATGTTTTTCCCCCTAA

Sequence 4942
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGCACAATCTTGGCTCACTGCAACCTCTGC

TABLE 1A
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CTCCTGGGTTCAGGTGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGCACTACAGACACG
CGCCACCATGCCCGGCTAATTTTTGTATTTTTAGTAGAGACGGAGTTTCACCATGTTGGC
CAGGCTGGCCTCAAACTCCTGACCTCAGGTGATCCACCTGCCTCGGCCTTCCAAAAGTGC
TGGGATTACAGGCGTGAGCCACTGTGCCTGGCTTCCATCCTCTTCTATCATTTTTTTAAA
TCTCTTCTCCTATCATAAAATTAATTTCTCATTTTTTGGTCAGGTAGAATTGGGAAAGTC
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AATATATTTATATGGGCNGAATTTAGATTAACAAAATTGATTGGCCCATTCTTTACTTTC
CCATTTTGNTTTTCTANAACCCACAAAAGTTAAAACTTGGGAATTCCCTGGCCCCCCANA
ACACTTGTATTTTGTTGGTTGAAGGTTCNGNCCCAAAAACAAACACAGTTTTAANTGCAC
ATACAAATGTTGGCNGGGATNTTCCCTGGAAATTTATTTAACCGGTTTTTGGTGGGNGGG
GGGTTTTTTGGG

Sequence 4757

ACCCTTTTAACAAAGGAAAGTGGGTTTGGGCTTCGAGGGACAATAAATTGTGGGGAAGTG
ACTAGGAAAGACATGGGGAGCTAATGCGAGATAAGAGCTACTGTAGTGAGGTCAGTTTAG
GCAAATTCGTCTTCAAGGATAAGAATCACTCTTCTCTCCTTGGTGCAAGGCGTGGGGGGC
ACCTTTCTCTAAGTGAAATTATATTTATTTTTATGGTCACCCTCTGTTTATGACAAGCGA
TACTTGTTTTCCCTATGCCAGAGGGATATGAATTTCCTTCTTAAATAAACCCTTAAATAA
ATAAATTTAGGCCAGGCGTGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAAGCCAAG
GCAGGTGGATCACCTGAGGTCAGAAGTTCGAGACCAGCCTGGCCAACATG

Sequence 4758

GGTACATAGCGCCTTGGTCTAGGCCAATAATAGGTCGATCTTCCTCGCCAACTCATATTT
CACACAGATGAATCTCAGTAGAGGAAAAAGAGTCCGGACGGCAGGAACCACACAGCACTG
CCTCACAGCTCCCTGGCGTTCTTCCCCGCGTACACAGAGTGGTCTTTTCAACACTCCTCC
CCCTACTCCACCGGACCTCAACCAGGACTTCAGTGGATTTCAGCTTCTAGTGGATGTTGC
ACTCAAACGGGCTGCAGAGATGGAGCTTCAGGCAAAACTTACAGCTTAACCCATTTTCAA
GCAAAACAGTTCTCAGAAATGTCATGATTGCCGGGGTGAAGGCAAGAGATGAATTGCATT
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AACAAANGGGTTTTCTTTTTTAAATGTTTCTTGGNAGGATTATTCATAATGGTGGAGATG
GGTCCCCAATATCATGTGATTTTTTTTCCTCCCCTTTCCCTTTTTTTGGTTATTTTTTTT
AGACTGNGCCAATAACTTTANANGAACCCTTTNGCATTTTTTNTCATTTCCCATGTGGGN
AAAAGGGATGCCCCNCATACNGGCNTAANNAAAAAAAATTT

Sequence 4759

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GCTTATATGCGTGCGAACAGCTGGGGAATTAATTTGGTATGCATTCTCAGGAGCCACTCA
TCTGCTGGCAGAGGTAGCAGAAGAATGCCCTTAGTGTAAATCCTCTACAACCATACACCA
AAATGTGCTCCCTTGCATTTCAAATTTCCATTGTANAAAGTCTCTGATAATCTC

Sequence 4760

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGTGACCAGGCCCAGCTAATTTTTGTATTTTT
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GGTCTGTTTGATTTTTTCTATTATAGAAATCCTTTCCCCTTTCTTAATGTCTCTTTGGTA
TTCTTGAAAAAAACAAAAGAGAGCCAACAAATAAAAGTAATTCCTCAGAATTTATGCTAA
TTTTGTAGCAATATAACTTGCGCATTTGATTGCTGCTTGATTTTTAAAATCAAATATTTT
CCTACATTGCTTTTTAAGGGCAAGGTGTGTCCTGTGAGTGTTTCTCACTGTTAGACTAGG
GCAGAAGCTCAACAATAACAAAAAAGGCTGGTGACTAGGAATCCTAATTTCCTTNCAACC
AGGGCGTGTGATAACAAANACACTTTTCCTATA

Sequence 4761

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGATGTCCAAAAAAGCACAACAATTTAAGA

TABLE 1A
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CTTTGGGCACTTTATGTAGCAGATATATAAAAAGCAAAGCAGGAATTAAGAGCAAATGAA
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TTATCTCCTAAATATTATAGCATGTAATATGAAGAGTTAATAATCTCGTCCATTCTGAAT
GAAAAAAACTAACTTTAAATAAGTTAATTCTATGCTCCTTGAACGCCTTAAAAAAAAGAA
Sequence 4762
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TTTAGGGATTTTCAAAAGGAGAATTGCTTGAACCTGGGAGGCCNAGGTTGCGGTGAAGCT
GANATCACCACATTGCACTCCAGCCTGGGCAACANGAGCAAAATGCCATCCANAAAANAA
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GCCGGCCGTTACTAAATGNNATCCNANNTTCGGAACCAAGCTTGGGCGTNAATCANGGTC
ATNGCCTGNTTTCCCTTGTTGNNAANATTTGTTANTCCGGTTAACAANTTNNCACAACAA
ACCANAACNTAAGGCCGGNAAAGCNTANAANGTGTTAAAAGCCTTGGGG
Sequence 4763
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CACTTAAATTCAACAACATCATTCCTCTTAACATTTTTGCCAATGGTGAAAAGTATTTCG
TATACAAATTTACATATTCTTACTCATGTGGTTAAGTTTCTTACATGTATTTGTTGAACT
TCCTGTGAATTGCTTATTCATATCTTTTTCTCACTTTTTCCTAATGAGTTTTGGTATTTT
TCTTTAATGAATTTTAAGAATGCTTTATGTATTGGTGCTATTAATCTTCAATTTTACGTA
TATTTGCATAAGTAATTGCCTACTTTTAACTCTTCGTGGCATACAGACATTTTTACATTT
TATTTACTTAAATTTATCAATCTTTTTCTTTAAAAGTTCTCTGGATTTTGGGGTTTATTG
AGGANGGGTANNCCCATCCCAAGAATATATATATGTTTTATAGA
Sequence 4764
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTGTTTTTATTTTATTTTATTTTTGTT
TGTTTTCTCCGTGTGTGTGTTTTCCTAATTTATTTACCTCTGTTTCCCCTTTTTCCTTTT
TTTTTTTAATTAAAGAGCAAAGCTTTTTATTACTTTGTAATTTAAAAAACTGAAAAAAAA
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Sequence 4765
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTAAAGCAAACCATTGTATG
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Sequence 4766
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CCCTGCAAATACACACACACACACACACACACACACACACACACACACACNNGNGNNAAACT
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CNTNTNCTCAAGACTNNGGGGNAAAAAATTTTTTNNNNCCNGGGAGGTAGATCTTGNNNT
AANCNAAAATNCTGCCTTGCTCTNCAACCTGGGNAACAGAGAGAACACTCNTTCTAAAAA
AAAAAAA
Sequence 4767
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GTCAAGGAGTAAAGGANAGAACAGAAGTGAGATTAGCACTAATCACCTCTAATGCCTTAT
TTCCAGTAAAGTTTAGAGAAGAGGAAAAGCTACTTGGCTTGCTCCTTTGAAGGTTTTGTT
TCCCTCTTAACACAGAAATTAAAAGGTAGAGGAGAGATGCTGAATGATGCTTTTTTTCTT
CTTAATCTTGGGGGGTCATTATGATTAAGTTATTGAATCCATATCACCGTATGACAGCAC

TABLE 1A

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ATGATGAAAGAAAATCAGATGTTTGTTTCAATCAAAGTGAANCAAAATGAGAATAACTAT
TTGGGCAAAACACT
Sequence 4768
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CCAGTGAATACCTCTTCTAAAGACTCAGCAAAAGGGTCATTTGTGCCTCTTTAACTGTTC
TTACCAAACTGTCCTGTCTNTTTTCTGCTGCCAACTAANCAGCTTCCTAGGGACAAAAAA
ATATACAATATTTTTTTTT
Sequence 4769
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CAGGCTTTCCTCGGAGACGGGTGGCATGGGGAGCAGCTAGAACAATGCAGATTCATCCAT
AATCCCTTTCTGCTGTTCACCACCACCCATGATCCATCTGTGTAGTTTCTGAACAGTCAG
CGATTCCAGGTTTTAAATAGTTTGTAAATTTTCAAGTTTCTACACACTTTATCATCCACT
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CCATATTTAGTTTTATAGGCTTCTCCCTGGTTTTTTTTTTTCGGTTTTTTTTGGCTCANG
AATTTTTTTGGTTTGGCATGGAAAATGTAAAAAAGGGGAAATTTAANTANCATTTCAAGT
TTAATTNTGNAAATNGNNAGGGAAATTTTTTCAAAAAAAAATTTAAAAANNATNGGGCCC
CAAAAAAAAAAAA
Sequence 4770
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AGTTATAAGCTGTTCATGTAGAAGGCATGTAATAAATGTATAGGATAACAATATGGGCAA
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Sequence 4771
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Sequence 4772
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Sequence 4773
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TCTGTGTATTTATATAAAGAAGAGACTGGTAAAAGACTTCATAATNTNAAAAAAAAACCA
AAAACCCAAAAAAAAACTTTACCCTTACCCATTGCTGGCATATTGGTGCAGNATAAAACA
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CTTTTGACAGCNTTTTNAAAAAATAA
Sequence 4774
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGTAATCCACTGTAGTGAAGGCACTAAAAC
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CAACAGAAGTTTCTTCTAGCACTTTGCAGGTCAGTTGAGTGGACTATTTGAGTCCCTCAC
AGTAATGAGCTTGTGTGTTTTTGTCATTCTTTTTTCTTTTTTTGAAAAAACAATAGAGTC
ATTTAAGGAAGCAAAAAGG
Sequence 4775
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CAATAGCATCATGCTTGTCAAATT
Sequence 4776
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Sequence 4777
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Sequence 4778
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Sequence 4779
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TTNGGNAANTTTNCNTTTNAAAAAANNANAAAAACNTTTTTTTNCNGGNCCCCCNNAAAA
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Sequence 4781
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GATGTCAGAACATGTTGTCTTTAGTTTGGAATCTGCCAAAACAAAAGTAAATCAAAAATG
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Sequence 4782
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Sequence 4783
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Sequence 4785
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Sequence 4794
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Sequence 4802
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Sequence 4803
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Sequence 4808
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Sequence 4809
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Sequence 4810
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Sequence 4811
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Sequence 4812
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Sequence 4813
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Sequence 4816
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Sequence 4817
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Sequence 4826
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Sequence 4837

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Sequence 4838

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Sequence 4839

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GCTGACCAGTGCCCTGGGTCAGAGCTTCATCTTTATGACGGTTGTGTATTTTGGTCCCCT

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GACCTGCTCCATCATNACTACAACTCAAAAGTTCTTCACAATTTGGCCTCTGTGATCCTC
TTCGCCAATCCCATCAGCCCAATGCAGTGGGGTGGGCACTGNGCTTGTGTCCTGGGGNCT
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ACCTCCCATNAANAATATTTAAGTTTTTTTTTAAACAGTGACATCTNTTGGGAAAAATGG
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Sequence 4846
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TCANANNNNGNNANAAGNNNGAAANCAANNAAATNANAAAANNNNNNAATNTTNTNCCCT
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Sequence 4847
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ANTTTTAAAAAANCTTNAANTNGNTNNTTTNGGGGNCCCCCCNAAAAAAANTGGGGGAAA
AAAT
Sequence 4848
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TTTTTTTTTTTTNNNANGGNGNNGGGGCNNNCCCCNTTTTTTTTTTTTTTNTNAAAAAA
AAATNTCTTAAAAAAATNTTTTTTTTAAAAAAANGANAAAANAANNCCNNNAAAAAAGGG
GGGGGNATTTTTTTTTTTTTTTTNCCNCAAAAAAATTTTTTNTGNNGNNTTTTTTAAAAAA
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NNNNNNNNNNNNNTTTTTNAAAAAAANAANNNNNNNNNNNNNNNNTNTTTATTANAAAA
AAAAANCCCCCCCCNTTTTTTTTTTTTTNNTAAAAAAAAAAAAAAAAA
Sequence 4849
CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNN
TTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAAAAAAAANCNTTTTTTTTTTTTTTTAAA
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TTTNNCCCCNCCCCCCCNNATTTTTTTNNNNNNAAAAANAANGGGGGGGGGNCNAAAAAA
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GGGNTNANNAANNAAANNNNNNGNGGNAAANAAGGGGGGAAAA
Sequence 4850
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AACCATGATTCAGTTGTGTAAAAGAAAATCTGTAAGGAGATATGTGAAAAGATTGGTTGC
AAGGGAATAATGAAATTACAAGTATTAGAAGGAATGGCTGGGCATGGTGGCTCACGCCTG
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CAGCCTGGCTAACATGGTTGAAACCCCGTTTCTATTAAATATACAAA
Sequence 4851
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CGAAGGCTCATCATTCAAAATAAAACAAAATAAAAAAGTATTAAGGCGAAGATTAAAAAA
ATTTTGCATTACATAATTTACACGAAAGCAATGCTATCACCTCCCCTGTGTGGACCCGCG
TACTTGAAGCTTTCAATTTAAGTGGACCTTCAGGCTGGGAAGACCATTTCTCTGTTTTAT
CCTCCATGCTGGCAAGGTCATGTCCTGGCTTGGAAAGAGGAGTCTCATCTATTTCTCCTG

TABLE 1A
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GAAGAACCTGGGTT
Sequence 4852
CCCTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTNANTTTTTTTTT
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GNNNAAAAAAANGGGGGGGNTTTNAAANNCCNNNCCCAGGGGGCCCCNANCCCCNTTTTN
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AAATTAAAAANNTTTTTTTNNNAAAAAGGTTTTTNTAANACNTTTTTTNAAAAANTTTTT
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AAAANTTTTTTCCCCCCCC
Sequence 4853
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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTC
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AAANGGNTNAAAAATTTTTTNTTTTTTAAAAANGCCCCTTNCNGGNAGGGGGGNAAAAAN
AAATTNANNAAAACNAAAAANTTNCCCTTTTANAAAAAAAA
Sequence 4854
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ACTGCTTGTTACGGATTTTCCTCCTGACCTTCTTGAGGACCCTCTCCTCTGCCTTGGTGA
GGGGCAGGTGAGAGGGCAGGGAAACCCCTTCCTGCCCCAGCAGACGCTTCTCCTCATCGG
CCAGGAACAGGGTTTGACAGGGCAGCTGGGGGTAGGGGCAGGAGAAGATGCAATAGGAGT
GAGGAGGGGGTCATCCCATTTGCAGCACCCAGGCTACTCCCCCCACATGCCTTCTGGAGA
GTGTTTCCTCACTGGGAGACAACTTTAATCTANAGGTGAGGTGAGGGGCANAGACTTTAA
TTCAGACAGGCTCTANATCAAGCCAAAGGG
Sequence 4855
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CACTTTGGGAGGCCAAGGCGGGTGGATCACGAGGTCAGGAGTTCAAAACCAGTCTGGCCA
AGATGGTGAAACCCTGTCTCTACTAAAAATGCAAAAAAATCAGCCGGACATGGTGGCGGG
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TTGGTGGTGGACACCTGTAGTCCCAGCTACTTGGGAGGCTGCGGCAGGANAATCACTTGA
ACCCCGGAAGTGGAGGTTGCAGTGAGCCAAGATCGTGCCATTGTACCCAGACCAATTTTA
TGTATATATATTCTGAAATGCTCCCTTTTTAATGTGGTCATTTGTTGCCTTCTAAGTTGA
GAAGACAAAACTGAATAAGTGAATGTTAATTGTCNAAAAAAAAAAAAAAAAAAA
Sequence 4856
NCCTTACGTGGTCNGGCCGAGGTCAGTNCCTAAAATGTCCTTCTNCAAACAGTAAAATAT
TTCACTCTGTAAATCATCACTAAGTAGTTATTCTGCCTGTTGATTATGAGCCTCCAAAAA
TGTTTAATGCTTGAAGGATGGTTTGGGAGGCAGGGAATCCTTTTCTTAAAACACCTTTAA
TGAGGCATATGTTACATATCATAAACACCCATTTCAAGTGTCCCTGCCCGGGCGGCCGCT
CGAAAGGGCGAATTCCAGCCACTGGCCGGCNGTTCTAGTGGATCCGACCTCGGTCCAACC
TTGGCGTATCATGGTCAT
Sequence 4857
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GTATCTTACCAAACACAGTGGCTCATGCCTGTAATCCCAGCACTTAGGGAGGCAGAGGCA
GGANGATTGCTTGAGCCCAAGAGTTTGAGACCAACCTGGGCAACATAGT
Sequence 4858

TABLE 1A
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CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTNGGNTTTTTT
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GGGGNTTTTTTTTTNNGGNNNNNNNGGGGGGGNAAAAANGGGGGCNTTTTTTTNAAAAAN
AANAAAANGGGGNTCCCCNCNNAAAAAAAANTTTT

Sequence 4859
TCGACCCACGCGTCCGACAGGGTCTGATCTAGGGAGAGGCCAACTCTGATACCCCTATGT
GCGCTGCTAGGAGCTAAGGACATTCAGAGAGACATGGCCTGGAAACAGACACCACTCCTG
CTTTTGGTCTACATGATCACAACATGCAGTGCCCGGGACAGAACAGACCTGCTCAACGTT
TGCATGGATGCCAAGCACCATAAGACAAAGCCAGGCCCGGAGGACAAGCTGCATGACCAG
TGTAGTCCATGGAAGAGAAATGCCTGCTGCTCAGTCAACACCAGCCAGGAGCTACACAAG
GACAACTCCCGTCTGTACAATTTCAATTGGGATCACTGTGGCGAGATGACGCCCGCCTGT
AAGCGTCACTTCATCCAAGACGCCTGCCTGTATGAGTGTTCCCCCAATCTTGGGCCTTGG
ATTCAGCAGGCAGGCCAGAGCTGGCGCAAAGAGCGCTTCCTGGATGTGCCCTTATGCAAA
GAGGACTGTCAGGAGTGGTGGGAAG

Sequence 4860
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GTATCTCAATTTGGGAAAAATCTCACAATTATTAACTCTTCTCAGTTACATTTATTTTTG
AGCATTTAAATCTACTATACACCAGTTTGTAAAATTCACCTTGGTTACCTCTCCCCATGC
CTATGTGCTGTCTTTCCTCAGGTAAGTCCATTATATGCATCTAAGTGCTGGGGAGGTTTA
AATAGCACTTAAAGAATATTCATGAGAGTTCTGAAATGAAGGTTTCGTCTTTAGCTATTG
ACTGTAGGATTTGTAATTCAAATCATCACAGCATCCTAAAGAAATACTGT

Sequence 4861
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TTAANTTTCAACATTCTTTAAATTTTACCCTNATCCTTGTTTTCTTCGCTTGGACTNACG
NCCTTTCTGACTCTNTTCCGCTTTTGGGTTGGTCTTCTAACAGTAAGGNATGCTTGTAGG
TGTGGCTGGTTNTGATCCACACAGTGGAAGGAGAAGCTCCTCATCCCAGCTTCTGGGTGC
CTGTATCCCCACCTGATATGTTGCCTGCTTNCGCCGATGAAGTCTAATAACCTTCCCCCT
GCNATTCCCCTAAAGAGGGAAAATAAACTT

Sequence 4862
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NNTNTTNNNAAATAAAAAAANCNCCCGNGGGTNGGGTNTTTTTNTTANNNNNNNNNNNNN
NCNNCAAAAAAAAANNANAANTTTTTTTTNNNNNNNNNCCCCCCCCCCCCNNNGGNGNNTG
NNANAAAAAAAAAAA

Sequence 4863
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AAAACTGGAGTAGCAGTATTGATATCAGATAAGGCAAACTTCAGAGGGAGAAAAATGATC
AGGGATAAAGAGGGGCATTATATAATAAGAGGGTCAATACTCCAAGAAGACATTGTTAAA
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CTGCAAGAGAAATAGACAAGTCCACTATTATAGTTGGAGACTTCAACACTCTTCTATCAG
TAATTGACACATTTAGCAGGCAAAAAAATCAGTAAGGATATAGCTGAACTGGACAATACT
GTCAAGCCACTGAATCTAATTGACATTTACAGTATACTTCATTCAACAGAGTACCTCGGC
CGCGACCACGCTAAGGG

Sequence 4864

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CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGGATAACTTAATATCCTATGTTGTGTCA
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ATATACTATTTTTTTCCTTTTTTAATTCAGTTTTTTAAAAAAACAAATGTATTGTGGCTT
CCAGTTACCAGGTTGTCTAGGTAATGACAGTAAACTGACTGTAGAATGATAATTGTGGTA
TAGTGACCAATAGATGCCAAACAGCTTGTGGCCTCACTAAAGGTGGGGTCCGCTTAGTCC
CCGGGAGTAAAATGAGTGACCTCAGAAACAAGAATTCCTGGAAAGGCACATGCCGAAGAG
GAATATGGTATAATTTTAAATTTTAATGCNAAAATTTTAATTTGGNCTTTATTTTT

Sequence 4865
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AGACAAATGACCTCCCAGATTGACTAGTTTTGTAAGGAACTTCAGTTGAAATTGAAGCAG
TCATCAGCTGCTTCTCAAACCAGCTACACTACATAAGGAGGAGCCCAAGGGAAACTGCAG
GACAACAGGTCCACTGGGAAACTTCAGGGGGCCAAGCTGTCAAAGACAAGCACAGAAAAA
TTCCTGCAATGTGCGTTAGACCTTGAGGCAGCTTTTAATGGCAAAAGTCAGTACCTCGGC
CGCGACCACGCTAAGGG

Sequence 4866
CCCTTTCGAGCGGCCGCCCNGGCAGGTACAAAAAGTAGCCGGGCGTGGTGGCTGGCATGT
GCCTGTANTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCTGAGAGGCG
GAGGTTGCAGTTAGCCAAGATCACGCCATTGCACTCCAGCCTGGGCCGACAAGAGTGAGA
CTCCATCTCAGAAAAGAAAAAAAANAANAAAAAANAAAATANGTACCTCGGCCGCGACCA
CGCTAAGGGCGAAATTCCAGCACACTTGGCGGCCGTTCTAAGTGGGATCCGAGCTCGGGT
ACCAAGCTTGGGCCGTAATCAATGGGACATAGCTTGTTTCCTGTNGTGAAAATTGTTTAT
CCGGNTCACAAATTTCCCACACAACATACCGAGCCCGGAAGCCATAAAAAGTGTAAAAAN
GCCTGGGGGGTNGCCCTAAATGAAGTGAAGCCTAACTCAC

Sequence 4867
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NTNTTTTTNNAAAAAAAAAAAANNNCAANNATTTTTTTTTNAAAAAAAAAAAACNCAAAA
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Sequence 4868
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Sequence 4869
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GCCGAGGCGAGCAGCACTTTGGGAGGCCAAGGCGAGCAGAACACTTGAGGTCAGGAGTTT
GAGACCAGCCTGACCAACATGGAGAAACCCCGTCTCTATTAAAAACACAAAATTTACCCG
GGCATGGTGGGGCATGCCTGTAATCCCAGCCACTTGGGAGTCTGAGGCAGGAGAATTGCT
TGAACCCGGGAGACGGAGGTTACATTGAGCCGAGATGGCGCCATTGCACTCCAGCTTGGG
CAACAAGAGCGAAACTCTGTCTCAAAAAAAAAAAAAAATNCCAAANNGNCTNCGGGGTNA
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TGNTTNGAACCNAGGNGGGGGNGGTTGCANTGACCCAAAATCNCCCCNTACNCTCCNCCC

TABLE 1A
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NGGGGGANAAAAAAANACTCCGTTTAAAAAAAAAAAAAAAA
Sequence 4870
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TGGGCTGTGTTGACATCAAGGATCTACCAGTGTCTGAGCAGCAGGAGAGAGCCTTCACGC
TGGGGCTAGCAGGACTTCTCGGCGAGGGAGTTTTTAACTTTGGAGAACTCCTCATGCACC
CTGTGCTGGAGTCCCTGAGGAATACTG
Sequence 4871
CCCTTCGAGCGGCCCGCCCGGGCAGGTACAAAATATTGAAATGACCAACGTTACATGATT
TCAAGGGTTGTCCTTTCTGTGCTTTTATCTGTCACGACAGGAAGGTGTGGAAAGTTTATA
TCGTTTATATCCTTAATTTGACTACTCTTGGATATTAAAATCTTTCTATTAATTAAAAAG
ACTTTTAGACAACCTCTTAAATGGAATTACACTATGGAAAACAGGGCTCCCCCAAAAACA
CCTAGGCAGAACTGAGAGTTCTTTGAAAACCATTCCCAATAAAAACTAAATGAAAAATAA
ATATAAAACAAAGCTTAAAAAAATATGCATTACCTGACACCAACCTTTTCTGGCTGACAA
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TAACTAGGGGCTGAAGCAAACTAGCATTTAGGATGCAAACATTCTTGGATTTGTGATGTA
AACTTGCCTTGCCAGGGAAAGTTTGCTGGTCTATACAGAATGAGAAATTCAAAGCCCTAT
TTTAACCCCTGCCCTCTTTAGCTTTCACAAAACATTGGTCCACAAATTAAATTTTCAAAA
AGT
Sequence 4872
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AAATTTTTTTTTTTATAAAAAAAAAAAAAANNNNNNNNNNCTTTAATNNAAAAAAAA
Sequence 4873
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TCCCGGGTTCAAGCTATTCTCCTGCCTCAGCCTCTTGAGTAGCTGGGATTACAGGCGTGT
CCCACCCGGCTAATTTTTGTATTTTTTGTAGAGACGGGGTTTCACCATGTTGGCTAGGCT
GGTCTCGAACTCCTGACCTCGTGACCGCCTTGGCCTCTCAAAGTCTGGGATTACAGGCGT
GAGCCACCGAGCCCAGCCCCTCCTTAAAACAAGTTTCTAATTANAACCCTTATTTTACCC
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T
Sequence 4874
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AAATACTGCATAATTTTAAAAATCAGAGTGTAATGACATTCCCTGACAACTTCAAATAAG
TTATGTGAGGAGGATGAACTATGGGTAGTCTAGACCACCAGTCATATTTGTCTAGCCGTA
GAAACAGTGACAACTTAAA
Sequence 4875
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGCTCGCTCANATCCTGCCAGGTCAATGAGTG

TABLE 1A
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ACATCTTGGCAATACGGACATTTTGATTGATACTTGCTGTTTTGTCTTGTTGTCGCAAGT
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GTAAAGTAAGTCCATGAACGACCACCCCTTTTTGGGTATCTTCCCGGACAGCAAGTGGCC
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TACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 4876
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ATAAAAGTGTCAAACAACCGAGAAGACAACAATCCTAAATGTGTATGCAGAAAATAACAC
AGCTGCCAAAATACATGAAGGAAAAACTGTCATAACTAAAAGGAAAAAGACAAATCTACA
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GAAATAGCAAAGAGGTAGAACT

Sequence 4877
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CATATTAGCAGNCTGGAATGAAGATTAGAAGCATTTGAAATGATGGAGAAGGATGAGCTA
TGACTTGCTAAACAATCTGTTGGTAGGTATTTAAAAAGAAAAGGTAAACTGTGTGTGGTT
AATAGACATCCTAATACTAAGCAGGCTTTCTAATGGGAGGCTTTAAGTATGGTGATGAAC
AACCACGTTCTGACTGGCGTAGTTATCGTAGGAATCTGGACATGCTGTGTTANAATTGAC
CTTGTTTAAAACTGTCCCATCAAAAATGGAAATCCACAGTTCCCCCTTC

Sequence 4878
CCTTTGGGAGTCGACCCCGNNTCCTCTGATTTTGATATCATTATTCTAAGGAGTTATCTC
AAAGGCACAAAATATGAATTCTGCAAGAAGGCTATTTTTTATTGTAGTTTGAATGGGTTA
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TTATGCAAGTTAAGGTTCTTTGGTAACAGAATTCTTGCAACTGTAAAATAAAACTACATA
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Sequence 4879
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AGTATAACTGATGCTCTTCTGGAATACCACATGAGACATGGTCAGAAACAGTGCTTGGAA
GGACATTACACAAGAAATTCAGAGTAATGCTTTGAAGATTTCCCCCCTTTTGTTTTATTC
CTGAAGGAACATCAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 4880
CCCTTAGCGTGGTCGCGGCCGAGGTACTATATTACTTCAAGATATGTGTAGGCAAATATG
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AACCTGCCATGAANTAAATGTCACATTTCTGTCACTGCTCACTAGACTTGTGCACTACTA
GAGTATTTGTAAACTAAAATGTTATATAGAAAATAACCNCNTATTNGGTCATTTACTCNA
ACATTTATCAAGTGCCTATTTTGNGCCAAACATAGCAAATAGGGGCTGTGAATAAAGAGG
ATGAAAACGTGCCCTTATCCTTAAAGAACTCTNATAAGAATCTTATTAAACNAACCCGAA
GCNGAGTTNNCCTTCCCCCCTTTATGTNAACTAACCNTTATTTCCCGGGAATACCTTTCN
AAATTCCTGAACTTTTTACCCAAACCNATTTGACAGAAGTCCCNCGTTTATAAACCTTCT

TABLE 1A
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TTNGGAAAATATTTGGTAAAAGGGCCCNTCTANACNAAATNTGCCAGGGGNAAAAAAATT
Sequence 4881
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TTTCTTTCTTTAAAANAATTTAAATGTTTTTTCACAAAGCTTAGCCATACAACCATTGAA
TNTNTTTNTCTTAAAAANGGNTTAAAACCCANAAT
Sequence 4882
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCNNNNNNAA
AAAAAANTTANNNNNNNNNNNTNAANAANAANGGGGGGGGNNNNCNNNNNNTGTTTTNAA
TNNAANNNNNNNCNNANNTTGNGTTTTTTTTTTNAAANANNNNNAAAAAAAATNGGCCCC
ANNGGNNTNTNANANAACCCCCCNTTNANNNNTNTTTGTTAAAAAAAAAAAAAACANNCA
AAAAAAAAAA
Sequence 4883
CCCTTAGCGTGGTCGCGGCCGAGGTACACCTATAGGTAACCAGTGTAGGTCATTAGAACA
CAGGCTTCACACTGCATGCTGATCTGCAAAGTGAGGACATACCAGTGACAACTTTGGAAT
CTGCATCCAGCCACAGGTAACAGATGTATTGCACCAGACTCAGATCTAGATTTTGTGATG
ACTATATAATGAACTAGAAGTTCAAATTAGAGAAAGAAACAATTCAAAATCAGAAGAAAG
GTAAAAGCAAGTGGCCACATGATCGCATTAAAAAAGAAAAAGGCAAATATCTCAGTAAGT
ACCTGCCCGGGCGGCCGCTCGAAAGGG
Sequence 4884
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCNNCNNNNNNNNNNCNTTTTTT
TTTNTNNNNANTTNGGGGGGNNNNNAAAAAAAAAAANTNGGGGNNNNAANNANNCNNNNN
CCAAAAAAAAANCCCCCCCCCCNNAAAANNANTNTAAAAAANNNTTNTTTNTAAANGGGG
AAAACNCNNTTTTNNGNCCANAGGNGGGNNAAAAAAAANACCANNCNNNGNNNCNTTTTT
GNAANGGGGGGGGGNAAAANTTTTTTCCCNGGGGGGNNAAAAANCCCGGGGGGAAAAAAA
AAAAANCCNCCCNAAAAAAAAAAAAAATTCCGGGGGNGGGNNNNATANANCCCCCCNCCG
GGGGGGGGGGNNNNNTTNCCCCNGGGGNNGGGGNGNAAAAAAANNNGGNGGNNTTCCCCC
NCCCCCCCCCNNGGGGNGGGGNNNAANNANGTTTTTTTTTAAAAAAAAAAANNCCCCNAA
ANNNNNGNNNNGGGGGGGGGNNGNCCCCCCCCCCCCCCNNTNNTTTTTTAAAAAAAANANN
CNCCCNTTTTTTTTTTTTTTTTNTTNTNNGNGGNAANNANNNCCCTTNAAAAAAAAANAGG
GNNNGNGGTTTTTTTTCCCCCCCCNGGGGGGGGGGGGNNNNGTTTTTTTTN
Sequence 4885
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTTT
TTTTTTTTTTTTNTTTTTTTTTTTAAAGGTNANANANAAATTTTTTNAANGGTNTTNAAAA
AAAAAATTAAAAAAAANNTNNNNAANNNAANNNANAAANNNTTTAAAAAAANNNTNCNAA
AANNTTNATTGAAGGCTTNANAAANATNTNNTNNAAGGTTTAGGGTTANNAANNNAAANC
TTNTAAAATGAAA
Sequence 4886
GANAAAGGGTTTTACTATGGAGCCAGGCTGGCCTTGAACTCACAGCAGTCCTNTAGCTCC
AGCCTCTTGAATGCTGGGATTACAGGNGNGAGCCACCATGCTGGGCTGTGTCTGGAATGN
CTCCTTGAACAANANGNGCAAGGATGTGTCTGAAANAAAGACAGTCTGAGNGGGCTCTGC
TGTACATCAAGCAAAACACCAACCCCTTGCTTAACGCCATGANACCTNGGCTCACCCTGT
CCAGGTCCCAGGGACCCAA
Sequence 4887
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACAGAAAAACAACAGCAAAGCAAGCAGAAA
GAAGGCAGAAGAAGGAAGGAAACCATAAAGATAAGGAGAGCAATTAATGAGCTAGAAAAC
AAAGTAATAATGCAGAAATCAACCCAACTAAAAGCCGGTTCCTTGAAAAGAGTGATAAAG

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CCATCTCTGGCAAAGAATGACCCAAGGGACGAGGAGGAAG

Sequence 4888

CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGGCGCAATCTTGGCTCACAGCAGCCTACA
CCTCCCGGGCTCAGGCCATCTTTCCACTTCAGCCTCTGAGTAGCTGGGACCACAGTTGTG
CACCACCATGTCTGGCTACTTTTTGTATTTTTTGTAGAGAGAGAGTTTCACTATGTTGCC
CCGGCAGGCCCGGAACTCCTGAGTTCAAGCAATCCACCTGCCTCAGGCCTCCCAAAGTGC
TGGGATTACAGTCGTAAGCCACCACGCTTGTCCAATAAATGGATTTTAATGGAGGAGTTA
GAAAAGTTCTTTGGTGTGGTTTCAGATTACACTTCACAACCAACCTTAAAGAAACTACTA
CTGGATAGTATTAAAGAAGAATATCCACAATTATCTGTAAGGGCTAGCCCTTTTCCATCT
ATATATTTGTAAAAGACTGGATTTCTTTCATATGCTTCAGCCAAATCAACATTTTAAAAC

Sequence 4889

CCCTTAGCGTGGTCGCGGCCGAGGTACTNCTTCTGTNGACATGGGGGTCTNATTATGTTG
NCCANGNTGGNCTTGAACTACTGGGCTCAANCAATTTACCCGCCGNCATGGTCTCCCAAA
GTGCTCANATTATAGGCATGACCACTGTGCCTGGCCAACATNAAACCATGTGTTATATAC
ACAAGAAGCCTGAGAGAGGAAAGAAGGGTANGCGCCCTGCNCATGCCGATGAAGC

Sequence 4890

CCCTTAGCGTGGTCGCGGCCGAGGTACTTNATTTTTTTTTTTGNTTTTTTTTTTTAGCAA
AGATTCACTTTATTTATTCATTCTCCTCCAACATTAGCATAATTAAAGCCAAGGAGGAGG
AGGGGGGTGAGGTGAAANATCACGCCACTGCACTCCAGCCTGGACAACAAGAGTGAAACT
CCGTCTCAAAAAAAAAAAAGATTCCATTTTAACCAACAGAGAGCTGCACCAACATGTTTG
ATTNTGGGGTTGAAGAGACTGGGGGAAGTCAGGGATTAGGTGCACATTCTCACATATATT
TTTGTAGGAGTATAAATTGGCCCTGNATCTGTANAGAGTAATTTGGCAATATTGACCAAG
ATTTAANAATGCACAAGCCCGCGTTCCTGC

Sequence 4891

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACTGCTAAGCTATATATTGAGCACATCCAGT
TATATTTAAGGTGGTTCTGTTAGTCCAATTTCATACTGATATAAAGAACTGCCTGAGACT
GGGTAATTTCAAAAAGAAAGAGGTTTAATTGACTCACAGTGCAGCATGACTGGGGAGGCC
TCAGGAAACTTACAATCATGGTGCAAGGCAAAGGGGAAGCAAGGCACCTTCTTCAAAAGG
TGGCAGAAAGGAGAAGAGCTGAGCAAAGGGGGAAGAGCACCTTATAAAACCATGAGATCT
CAATCATTGTGCAAAAATCACAAGCATTCTTATACACCAATAACAGACAAACATAGAGCC
AAGAGTGAACTCCCATTCACAATTGCTTCAAAGAGAATAAAATACCTAGGAATCCAACTT
ACAAGGGACATGAAGGACCTCTTCAAGGAGAACCACAAACCACTGCTCAATGAAATAAAA
GAGGATCAAACAAATGGAAGAACATTCCATGCTCATGG

Sequence 4892

CCCTTAGCGTGGTCGCGGCCGAGGTACCACAACTGGGTTTAGCAATTCGGGTAGGCACAG
CAGGTCCGGCTTGGCCCTGCCTGCTTTGACTGCCTTTTCGGGAGTTTTAAACCTCCTACA
CTCGGAATGTAGCCCTGATTGTGGTTTCTCTGCATAGCAAGTTCGGACTTAAGCGGAATA
AGTATCGGCTTATTTCGCCTGCGATAAAGATGCTTAATTCTGCGTTCGAAATATTCTGAG
CGAGTCCTGGGTTAGGGATTTCTTAGAGTAACAAGTGCATGCTTCGATTTTAAGTGCCCC
TGTGAATGTGATTTCTTAGCTCTTGCAAGTCCATATTTGGTCGCAACCAGTACCTGCCCG
GGCGGCCGCTCGAAAGGG

Sequence 4893

CCCTTANCGNGGNCNCGGCCGACGTNCANTTAATATGATTCANTATAATCTGCAGTCTCA
TGTATGGCTTATCAATAATGCCATCATCACTGTATGTCAAACAACCTCACTGCTTACTAG
AAATGCTAAACACTGGAAAAAATGGAATTTTATACATTTGTTTTCTTAAATTTTGACAGA
TATTCTTCAGAAAGTTAAAACTGCCTTCCACAAAATTTTGTGTGTATATGGCACAAGGTG
ACAGCCAAAAAGTGTGATTCCATCGAAAAGGCGCTGTTAACAATACTCAAGAATAATCTG
ACAAGTNTACATCAATGTCTGAGTAAAGAATAGGTAAATAGACAAACCCCTATAAAAGAT
AGTATTATNGNTTAAATATACTATTGCTNTATAAAAAGAANGTAACACACAGGAAATGAC
CCTTTTTATGACAAGCCTATANACCCCNTTGAAATCACATTATTAGNTCTTGTAACCACA
AAAAAATGANAAAAAAATATT

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Sequence 4894

CCCTTAGCGTGGTCGCGGCCGAGGTACANTNGTCTTTATTATCATATATGGTATGTATGT
ATGATTTCTTTCCATTCCTCATATTTAGACTGTATATTTATGTAGGTGTGAGTGATTGCC
TGGTGCTTGCTTGTGCCAAGGTGCTAGGCACCCTCCAACCCTGCCAACTTTTGTGGCCTC
CCAAAGCATTCCTGTTACCAAAGAGGCTTCAAACCTGACCCTCACTTCTCAGTGGACCCG
AGTTTCCCTTCCATGCCATTATTTTCAGTGGGGAAGTTTTAGAGGTGAGCTGTTGGCCAC
AATATCAATTTTAAGTGTTCATAGCAGCTATGTCTCCTGCATTCTTGGCTCCTGGATTTA
CCACCAAGAGTCCCCAAAATATTAATGCTCTTCCCTTTTTCTACCCTCAAACTTATAGTT
GTATCTTATTTTTTAAAATGAATTTTCATGGCCGGGCACGGGGGCTACCCGCCTGTAGTT
CTCAGCCTCCNAAGANCTGGGACTTACANGCGCCGGCCACCACNCCCGGNTAATTTTTTT
G

Sequence 4895

CCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTNANTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNGGNCCCNNAANANNAAAAAA
AAAAAAANNNNNNAAAAAAAAAAAAAAANCCCCCCCCNNNGGGGNTNAAAAAAAAAANNN
NNNNNGGGGGGNNNNANNNANNGGGGGNAAAAAANCCCCCAAAAAAAAAAAANNNNNTTT
TTTTTTTGGGGGGNNNNTNTNTAAAAAANANTNCCCCNGGGGGGGGNAAAAANAAAAAAA
AAAANNNNNNNNTTTTTTTTTTNCCC

Sequence 4896

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACTGCAGGCAAATGTGGTTTGGTGCCTGTCC
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CTGTGGAAGGATATCTTGCTGTGGCGGTGGTTAGGAGATCAGACACTAGCCTTACCTGGA
ACTCTGTGAAAGGCAAGAAGTCCTGCCACACCGNCGTGGACAGGACTGCAGGCTGGAATA
TCCCCATGGGCCTGCTCTTCAACCAGACGGGCTCCTGCAAATTTGATGAATATTTCAAGT
CAAAGCTGTGCCCCTGGGTCTGACCCGAGATCTAATCTCTGNCTCTTGTGTATTGGCCGA
CGAAGCANGGTGAGAATAAGTGCGTTCCCAACAGCAACCNAGAGATACTACNGCTACACT
GGGGGCTTTTCCGGTGCCTGGCTTAAAAATCTGGAGACGTTTGTATTTTNTGAAAGATTT
CACTTGTCTTNCAANAACACTTGATNGAAAATAACAATGAAGGCATTGGNCTAAAGGATT
TGAAANCTTGGCAGACTTTTGCGCTGCTTTNCCCTCNATNGCAAAACGGAAACCCTTTGA
CTGANGCTTAGAAACCTGGCATTNTTGCCATTGGCCCNCNAATTAATGCCCNNGGTGTCT
TNNGGATGGGATAAAGGTGGAACNCCCTTAAAAAAGGTGCTTGTTTCAANCAACANGGCT
NAATTTGGGAAAAAATGGATCTTACTTCCCCGANAANNTTTTNTTANTTTCANTTTTTAA
ACCAAANAAAAAAAAAAA

Sequence 4897

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ATAGCTTCTCGTTCTCTACGATTTGGATATATGGGTCTGCCATGGAGTGGTATTTTCAGT
TCCTCCCACTCCAGCCAAGTTAAGTCTTCTGAGGGATCCAGCCATTGCAAAGCAACACTG
ATGGCCAAATCATAAGTGTGCCATATCATCTAGAAAGGTGAGTTGCCGTCTTCCTTTTGG
GTCAAATTTCAATTTTCCCCGAAGCTGATGCCAATATAATCTCCCAAGAGCTTTTTCATT
TCCTTCTTTATGAGCCTTCTTTCCATGTTAAAGGGCTTAGCCAGCTTGAGCAAGGTATTN
TGCAGTTTACACTAACACTTAGACCCAGCTTTTTNNTCCCCGCGGTACCTGCCCCGGGCG
GGCCNNTTCGAAAAGGNCAAAATTNNACCCCNCNTTGGGGGCAGGTTCTTAGGNGNAATC
CANGNTTNGGTANCAAANTTTGGGNAANAAAGGGGCCAATGNTGGGTTNCCGGGGGGAAN
ATNNNNNANNATTNNNAAAAAATTTC

Sequence 4898

CCCTTANCGTNGNCNCGGCCGACGTACNCNAAATACTTCATACTAAACTTTCTAGAGAAT
TAAACTTTAATGATGGGCTCAAANNANANANAACCNGCCNACTAATTTGTTCCTGCCCGG
GCGGCCGCTNAAAAGGGCGAATTCC

Sequence 4899

CCCTTACGTGGCGCGGCCGAGGTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

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TTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTAAAAAAAAAAAAAAANNNCNNNTTTTTTTTTTNTTCCCCCCCCCCCCCCCCCNNTT
NNTNNAAAAAAAAAAAAAAAAAAAAACCCCCNCNNNNCCNNGGGGGGGGGGNNNTNTNT
TTTGGGGGGNNNAAAANNNCCCCCCCCCCCCCNNAAAAAAANNNGGGGGNNNCCCCNNNN
GGANNNNAAAAAAAAAANNNNGGGGNTTTTTNNNNNANCCCCCCCCCCCCC
Sequence 4900
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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TTNANAAATNNATNTNATAAAAAATTCCTACCATTTNACTTAANANNNATAANNNAAAAN
ANNAAAAGAAAAANANANAGGGGGGNGNNAAAAAAAAANAAATNAATANTTTNNNNNANA
NAANNAAAATNACCTANATAAAANNGNNTAAAATGCAANTGGNNAAATACCAAAAACNCT
NNNNGNAANAAAAGTANANNNNNNTNNNNNNNGNNNNAAAAAAAAA
Sequence 4901
TCGNCGGCCGCCAGTGTGAGGCTATCTGCAGAATTCGCCCTTACGTGGTCGCGGCCGAGG
TACCTCAAATACTTCTGTTATGTATCTGTGATTTTATTTCTTCTTTGGGTATAGGGTTGA
GGGGAAATAAGTTTTGAGTGAGAAATAAACGTTTTAGCTAAAAAAAAAAAAAAAAAAAA
AAA
Sequence 4902
CCCTTTCGAGCGGCCGCCCGGGCAGGTGCCTGTCTGTGACTGTTGCTATGATCAGGACGT
TTGGCACTAGAAGAGCAGTTTTGGTTTTCTTTATTAGGGTTACCGAGAAAGCTGGAATAG
AGATCTTTGTGTCTTTTCCAAAGACTTTGGAATGAAAACAAATCCAGTTTTCTGATACAA
AGAGCTTTCCTTGGTATAGTATTNCTTTCTGTAGAGCACAGGTAAAGCTTTGCTTCAGTG
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GGCCGCGACCACGCTAAGGGCGAATNCCAGCACACTGGCCGGGCCGTTACTAGTNGGATN
CCGTAGCTCGGTACCAAAGCTTGGGCGTAATCATTGGTCATAAGCTTGTTTCCTGTNGGG
AAATTTGTTATCCCGCTCACAATTCCCACACAACAATACCGNAGCCCGGAANGCATTAAA
AGTG
Sequence 4903
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CAACCTCTGCCTCCGGACTCAAGCGATTCTCTTGCCTTAGCCTCCTGAGTAGCTGGGATT
ACAGGTGCCGTGCTACCACGCCTGGCTAATTTTTGTATTTTTAGTGAGACCAGGTTTCAC
CATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAAGTGATCCACCTGCCTCGGCCTCC
CAAAGTGCTGGGATTACAGGCGCGAGCCACTGCACACAGGCAAAAGCCCCTTGCTTCTCA
TGGGTCTGCTGTCGTTTCCTTCAGCCACTTTGGTTTTCAGGGAGGGTTCAGGAAACCATC
CTCCACTGTGCTTCTTTCTGGCCTTTGCTACCCCTGTTTCC
Sequence 4904
CCCTTCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTGTTTTTTTTTGTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAANCNAAATAAATNAANAATTT
TATTTAATTATAANGGACCACNTTAAATATTANTTNAAAAAATTCAGGCNTATNTTTAAA
ANAGGNGGCCTGATAANTTCCANGANNNTANTNGNAANACCCTTTTNCCAAANTACAATA
AGTCCATTNNCGNATNNTAAAAAAANTACCCCCANTCCACTTGGGATTTTTTTNAAAAGTN
TTAAGTTTTCNAAAAAANCATNNAAAAGGGTNNAAANTTANTTTTTTTT
Sequence 4905
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AAAAAGCTTCTTCCTGATATGAAGAAAGTTTGGGTGGTCTGGATAGAAAATAAAACCAGC
CACACATTCTCTTAAGCCAAAGTCCAAAGCAGAACAAGGACCTCTCTTCAATTCTCTGAA
GGCTGAGAGAAGTGAAGAAACTGCAGAAGAAAAGTTGGAAACCAGTAGAGGCTGGTTCAT
AAGCATTAAGATAGAAGCCTTCTTCATATGAAAAACTACAAGATGAAGCAGCAAGAGCTA
ATGTAGAAGCTGCGGCAAGTTATGCAGAAGATCAGGTTAAGATCATTTAAAGAAGGAGGC
TACACTAAACAAGAG

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Sequence 4906
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTTACAAGGACTTACTGGAAAATTCCATG
CTGTGCGCTGGCATCCCCGACTCCAAGAAAAACGCCTGCAATGGTGACTCAGGGGGGACC
GTTGGTGTGCAGAGGTACCTGCCCGGGCGGCCGCTCGAAAGGG
Sequence 4907
CTTAGGGAGTCGACTCAAGCTGCCGCGGTTTCCTGCTTCAACAGTGCTTGAACGGAACCC
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CGCTCCGCCGCTCCAGCGTCGCCTCCGCGCCTCGCCCAGCCGCCATCATGACCACCGCGT
CTCCCTCGCAAGTGCGCCAGAACTACCACCAGGACTCGGAGGCTGCCATCAACCGCCAGA
TCAACCTGGAGTTGTATGCCTCCTACGTCTATCTGTCCATGTCTTGTTATTTTGACCGGG
ATGATGTGGCCCTGAAGAACTTTGCCAAATACTTTCTCCATCAATCTCATGAAGAGAGGG
AACATGCTGAGAAACTGATGAAGCTGCAGAACCAGCGAGGTGGACGAATCTTCCTGCAGG
ATATAAAGAAACCTGACCGTGATGACTGGGAGAGCGGGCTGAATGCAATGGAGTGTGCAC
TGCACTTGGAAAAGAGTGTGAATCAGTCACTACTGGAACTTCACAAACTGGCTACTGACA
AAGAATGATCCCCACTTATGTGACTTCATTGAGACGCATTACTGAATGAGCAGGTGAAAT
CCATTAAAGAA
Sequence 4908
CCCTTAGCGTGGTCGCGGCCGAGGTACCCTAACCTGACAGGAATTAACTACTGTTTTTTT
GTGGGGCAGAAAGCAAAACCTGGTGTTGTGACTTTTATCCTAATGGTTCTTAGGCAAGGT
TAGTGAGAAGAAACACAAACCCAGATGCATACATTGTGCATTATTTTGTAGACAAGCTAC
TTTTTCTTCTGTCCCTTTAACAAATTTGCAGCAATTACCCTCCCTTTGGGGTCTAGAGTG
AAAGCTAATTTGTGGGTAGATGAGATTGCAGAAGAATGGATGTCCATGGCTGTGAACACT
GCACACTGCACATCTATCTCCAGTGCTCACACTGTGCAGCTACCACTCCCTGGCTGCGTG
CCATGCTGTCGGGTTGCAGATTTGCACACATAAATTCCTCAGGAAGAGTTTGCATGAGCA
TCACCTCGCAATATTCTGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAAT
Sequence 4909
CCCTTAGCGTGGTCGCGGCCGAGGAACTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTN
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GGGNCCCTTNACNACATGTGNCCCCCAAAANNANGGNNAATTNAGAANTNCGTCNANTNG
AATTGNNAAAAATAAATACCAATGGCTNTTTTATCATTGTCCNTTCTTTCCCTTTTAAAN
TTTCACTTTGAAAATT
Sequence 4910
CCCTTAGCGGCCGCCCGGGCAGGTACAGATTCTAGGTGGCCTTATTTACATAATAGATTG
GTGGTGTTTACATTTCCTAATGAGTTTCCATTTGACGAAAACGGAAATCCAGTGTATGAG
CTTAATGATAAGAACTGGAAATCCTTTTTCTCAAGGACGTGGTCCAGATTAAGTTTGCAC
GAGGACGAGGACAAGGAAAACGATGGAGACTCTTTGCCAACGTTTAAATGTGTGTCAGGA
CAAAATACTAACACATTATGAAAATGATAGTACCTCGGCCGCGACCACGCTAAGGG
Sequence 4911
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAAGAGACTATGGAAGAATTTCAGGGTAGC
TGGGATGTCTTTTACATAATACAGCATCTAGAAAGGAGGAAAAAGAGAAATGAGCTGCTT
CTGTATGTTGAAGTCTTTATTGCTTGGGCTAGATACTCCTAGAAAGTTTGATTTTCTAGT
TGAGTGAATTTTACCCAANAAAACACTTAAGAAATTTAAAGATTAAAGACGTTGCATGAA
GACATAGAACAATAATGTGAGAAAATATTTGGGGA
Sequence 4912
GGAGTCGACCCCGCGTCCGGCGGCTGAGCAGGGATTTAACCCGCCACCATGTCGAGCAAA
AGAGCGAAGACCAAGACCACCAAGAAGCGCCCTCAGCGCGCAACGTCCAACGTGTTCGCC
ATGTTTGACCAGTCCCAGATCCAGGAGTTCAAAGAGGCCTTCAACATGATCGACCAGAAC
CGGGACGGCTTCATCGACAAGGAGGACCTGCACGATATGCTGGCTTCAATGGGAAAAAAT
CCAACTGATGAATACCTGGACGCCATGATGAATGAGGCCCCGGGCCCCATCAATTTCACC
ATGTTCCTCACCATGTTTGGAGAAAAGCTGAACGGCACCGACCCTGAGGACGTCATCAGA

TABLE 1A
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AATGCCTTCGCTTGCTTCGATGAGGAAGCAATCGGCACCATCCAGGAGGATTACCTGAGG
GAGCTGCTCACCACCATGGGTGACCGCTTCACAGATGAGGAAGTGGATGAGCTGTACAGG
GAGGCCCCCATTCGACAAAAAGGGGAATTTCAACTTACATCGAGTTTCACGCGCATCCTT
AAGCACGGGGCGAAAGACAAAGATGACTGAAGAGCTGTGGCTTNCAAGCCAAATGTCCCT
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TTTCTGGCTTTTGCTTTCCTTGGTTTGGATTTATTCTCAAGCCCCCTTTTGGGGCCCCGT
TGTACCTTTTTATNATTCANACTTGGGAAACGGGGACNTTTNTTGTTCATTTGGTTCGAT
GAGAACGTTAAGGGNAATTTTACTTTACAGACAGGNTTTGTNCCNTTGTAANAACCTGNA
GCCCCCAGNAGTNANTTNTNTTTTTTTTAGNAAAAAAGTTNTCCCCTTCAATTTTTTTNT
T

Sequence 4913
CCCTTAGCGTGGTCGCGGCCGAGGTACTCTCTGCTGAGGCTGTAAGTTTTGTTTTGTGAG
AAATAGGTAAAGACATTAGCATTTAATCTACTGGAATAAGCTGGTTGCTGTGGCTTATAC
CTGTAGTCCCAGATACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAGACCAGCCTGGGCA
ATATAGTGAGACCTCACCTCTAAAAAAGTTTTTTATAAATTTACTTGTCTAAAGTGGGGA
AAGGGAAATTATTCTGTTTTCTTATTCTTGCTTCAAGACTATGACAGATTTGAAAGAGAA
TTCTAAAGCAGATTTAGAAGAACCTGCTTCTCTTCTTATCTCCTAATCCCTAAATTGTAA
TTNAGCTCTTATCTGTATTGGTGGTTTGGTTTGGGTAAAAGGGATGATTTTTACATTGAG
TTTTTAAAGGTAGAATAAAGAAAAAGCNTCTAAAAACTTGCATTGNGCCTAGGGATCTGN
CCTATATCTTTGCCCTGGGGGNTCCGTNGGTGGNGGTAATTGGTTGGTCCCC

Sequence 4914
CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGTGTCCTGAGAAAGTTAAGCCAATTTAACA
ACTATTTCCAACATCTCTCTACCTGCTTTTCTTTAAGTATAGGGTCATGTNTTTCGTGAA
GCCTATGTGTTTTATAAACATGTATTAGTATTTGCCTNGTATAGGGCTTACTATGGGCTA
GAAACTTTCTAGAAAGCTTTAGAGATGTGAACTCATCTAATATATGATTATTAACCCCCC
ATTTTACAGATAAGAAAATGGGANGCAAAGACAGATTGGATAACTTGCTGAACTTGGTGG
AGGAGAAAGGCTTGAACTTANCAGCCCAACTTGAGTCTTTCTATGTGCTGNGCTGTGCTG
TCNTTCCGAAGCGGGTGCACTANCTNTTTAACCCCAAAANGAGGTGTGCAAACTTAAACT
GGGGGTGTGGGCTCATGCCTTTTATTCTAACTGCCCAANAANCTGANGCAANGANGAGGG
CANGAGTTTGANGACCAACCTGGGCGAAATNAGTGAGAAGACCGNTTTTTTTTTTT

Sequence 4915
CCCTTTCGAGCGGCCCCCGGGCAGGTACTGCCAACCAGAGATGCTCACCCAAGATTTGGT
GTCCAGGGTTTTTACTGGGGTCTCTCGTCTAGGTATGCAGCTCCCACATGAGTGACACTA
GCTACTCTCCCTTTACCATCCCAGAAGCCAAACCAATACTGCGTGGCCCAAGACCTCAGC
ATAAAAAAACACTCTTATCAGGTGGCATATTCCAAGGGCTTAGAGGTTCTCTCTCAGGAG
CTGGTCAAGGGCCTGTCTTTGGCATGTGCAGGGTTTGAGCAACTCANGCCTGCTGT

Sequence 4916
TCAACAGGAAGTAATTGCCTGAGCTNTTTAAAGCAACTGANTTGAATGTCAGGAAACTGG
AGNCCTAATCCAGGCCCTTTTTTGACTGACTGAGTTGGGATAAGACTTTTTACCTNTAGG
ATCATCAGGNGCAAAATGAAAAGGTTGAAAAAA

Sequence 4917
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTCTTATTA
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AATGGCAGTATCTTAAAGGGACAGGAATCACCANAAAAGAAATGCACATAGTTGGATTTC
TTATGCAACTCATTGATTGCATATGCCTGTAGTAATCTTTTACAACAAGAACTTGTCAGG
TTAAAATTATAAATGACTTCAAAGCTGCTGCTATCCATTTCATTTGGCTATTAGGGNGGG
CAGGGATGTCTAACTCAGGAAAGATAAAATGACAAAATGTCCCAGGAATNAATAGGNCTT
TATTTTGCCTTGGATTTTANCTGAANAAAAATCCCCCTTTAACTTTGACTGCTTGGGGCC
AAAAACCNCTTCTGGNTTATTCTANTCTTTAAGGACCANTTTTTAGANGAGNAAATTNAA
ACCCCAAAAAA

Sequence 4918

TABLE 1A
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CCCTTTGGCCGCCCGGGCAGGTACAGGCCAACATGATCAAAGGCATGCTGGAAACAAGCG
TATTAAAGATCAGCTTGGATCAAGCTTTCATTTGCATCTGCCTGAACCGCACATATTTNA
GTCTGAAGGGAAAATTGGTAATCAAGTTGAGAAGTCTATCAACAATGCTTCCTCAGTTTC
AACATCCCAAANAATTTGTTGTAGGCCCAAAACCCATATTTCTAATAAGTATGGAAATAA
TTCCCTCCATTCTTCATTACTCACACAAAAATGGGAAGTACCTCGGCCGCGACCACGCTA
AGGG

Sequence 4919
ATNCTTAGGGAGTCGACCCACGCGTCCGGGTTGATGAACTGGACTCTGTTGCTGAAAGGA
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TGTGGGGCTGCTCCCATGAACGAGAGCGAATTTGCTGAATGGTACTTGTCAAGATTTTTT
GACTATCAAGGGGACAGAATTCCAATGACAAAAACAAAAACCAATAGAAACCTCCTAGAA
GAAAAACTCCAGGAAATGCAGCAGTTCTTTGGGCTAGAAGTAACTGGGCAACTGGACACC
TCAACTCTGAAAATAATGCACACGTCTCGATGTGGAGTGCCTGATGTACAGCATCTTAGA
GCAGTGCCCCAGAGGTCAAGATGGATGAAGCGGTATCTCACTTACAGGATCTATAATTAC
ACTCCAGACATGAAGCGTGCGGATGTAGACTACATATTTCAGAAAGCTTTTCAAGTCTGG
AGCGATGTCACTCCTCTAAGATTCAGAAAGATTCATAAAGATCATGGAGACTTCTACGAT
TTTTGATGGCAAAGGTGGTACCTTAGCCCATGCTTTTTA

Sequence 4920
CCCTTAGCGTGGTCGCGGCCGAGGTACCAAAGACACTTATTATTCTAACATGCATCAAGT
AAAGTAAAACAAGGAGAGAGGCTGCGGTGTGTGGGTAGGGGATGCAGGAGAAGCTGTGTA
AGGTAGTGGACAGCTGTGTGGCTCTGGGGATGAGACAGACTAGACCAGGCAAGTGCTTNA
GGCAGGTGCCCCGTCGGGAGGCCTNTGGAGTTACTCATCTTGCAGCCTCGGGCTACTCAC
CATCAGGGAGCCCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 4921
CCCTTAGCGTGGTCGCGGCCGAGGTACCAAATGAAAGGGGCACCATTTCAAGAGCACTAG
GACTACATTAAACTTAAATATATTCCCACATTCTTAAAAATGTAACTCAAAACCAAATCT
AGTCTTAAAGAAGCTCCAATAACTAAAACTACATTAACAGGCACGATGAACAGTGTAAAC
ACTGTTAATGGGCACCAAGTTTAACAGGGCAGACAATATTTGCTTCTGCATTCACACTTA
TTCAATTACATTTTTTAAAAAAATGATGCTGCTTAAACTATTAATGTTTTACCAAAAAAA
TAATAATTTTAATAAATACAGCAAATGCTAGAAATCTGGCTAGGTTATCATGCAAGGTAT
AACCAAGACAAACTCAAATTTATAATAAAGGCAACTTGCATTCAAAATGAACTCTACCCT
TATATTTTATTAAAAGGGCAAACATCATGAATTAACCCAGCCGCTTACTTGAATTACAAA
AGTAACATGATTCAATATGAAAATAAGAAACTGTCTACAAATCTCTGACAGTAATAAATT
GCAATATACAATGCATACAGGAGTCATACAGAGCAACAAACTCTCGTACCTGCCCGGGCG

Sequence 4922
CCCTTTCNAGCGGCCGCCCGGGCAGGTACTTTGGGAGGCATANGCTGGCGGATCGCTTGA
GTTCATAAGTTGGGGAACAGCGTGGGCAACATGGCGGAAATCCCGTCTCTACAAAAAAAA
NAAAAAAAAAAANNNAAATTNCCCCCNNGGGGGCCCCCNCTTTTTTNGNCCCAATTTTTT
GGGGCANNGAGGGANNNNNNTTNNCTAANCCCGGGNGTNGCTGGGGNAGTANACATAAAA
ACTCCCNNNANCNCCCNNGTTGNNTAAAAATAGGAANATTTNGNNCTATATTNAAAATAC
ATANA

Sequence 4923
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGATGGGAAGGGTCTTGTGTTTTAATGC
CAATAAATGTGCCAGCTGGGCAAAAAAAAAAAAAAAAAAAGTNCCTGCCCGGGCGGCCAA
GGGCN

Sequence 4924
CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG
TCCTTTGTGTGAGTTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTG
CAACAACTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT
AGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTCGCGGCGGAGTG
GTTGGCCAAGTGCTGCCTAATAATTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATCA

TABLE 1A
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GCCATGGTAGATTATGGTTTCTGAGAACAGATGGGGCACACAATTCCTAGTGTGCCCATT
AACAGGTCTTCCAAAGTACCTGCCCGGGCGGCCGCTAAGGG
Sequence 4925
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAA
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTNTTNGTTTTTTTTTTTTTTTNTT
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NNGNTTAGAANTNTTTCNNCNCATTTTTNATTTANGGANGAGAAAGGGNGNTTTTTTAAA
AANAATTAGAGTTNTNTNAANGGNAGNANTGNNTTTNCCCTTGTAAANCCCTAANAATTT
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TAAAANAANCCCCCCCAANACAATAAAAAAAATTGGACCGCNNCATTAAAAATAAAAATA
CCTCCCNNCCCNCCNAAAATNCNTTTAAAAGNNGNNGGGNGTATNNNTAAANCNCCCCCC
CTTTTNNNGGTTATNNACANNANCTNTTTTCNNAAAAAAANATNTTTTCCCCCTANATAA
CAAATTTGGNGAAAACAANNNTGANNANTTTTTTTTTTTTTTTTAAAAAAGAATTNNGNNT
GNNNGNGCCCAAAAAAAAAANAAGTTNGGGNTGNNCTNCCNNNTTANNTAAAATTTTTTG
GNGGNGNNCTTTTTCCAAAAAAANTCTNGGNAANNAACCNCNAAAAAAAAAATCTNNNCC
ATTCCCCCCAGATNNNTTTGGGAAANCCCCTTTGGGCAAAAAAA
Sequence 4926
CGCGGCCNAGGTACCGTAAAAGAAGAAGGAATGCCTAAAGAAACAGACATAGAAATCATC
CCAGAAATCCCTGGAAACTCTAGAGCCACTGTCCCTTCCANATGTGCTGAGGATCTNGNC
AGTTCTGGAGGACACCACANACCANCTCTCTATTCTGAACTACATNATGCCCGTTCAGTA
CCTGCCCNGGCGGCCGNTCNAAAGGGCGA
Sequence 4927
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGTTATATTCTTAAGCCTCTCTTTAT
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GTTCTGTGAGATTTAAGAGCAATAATCAACAGTTCTAAGCCTAATAAAGAGAGCTCTTAA
TCAGCTCAGTGGTGGTTAAAACCAGCTATCTTTTAAAGAAGAGAAAAAACAAAACACAGC
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CGCCTGTAGTCCGAGCTGTTTGGGAGGTTGAGGTGGGAAGATTGGTTGAGCCCAAGATTT
TGAGGCTGCAGTAAGCCATAATTGGTACCTTGGCCGCGACCACGCTAAGGG
Sequence 4928
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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNAAAAAANNCCCCNTTTTTNNNNAAAAA
AANNNNNNNCCNAAAAAAANAAAAANNTTTNNCCAAAAAAAAAAAAAANGGGGGGNNNAA
AAAAANNATNGGGGNAAAAAAANNNNTTNNNNTTNNNGGNNNNGNTCNGGNAAAAAAAAA
AAAAANTNNCCCCCCCCCGGNNAAAATTNGAAAAAAAACCCCCCCCNANANGGGGGGGGN
NAAAAAAANNNNNNANNNCCCCCCNGGGGGNNNGNAAAAAAAAAAAA
Sequence 4929
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AAGGCATACAGGCATTTTTTTAATTAAAAATAATAATGATAATGATTTAAAAAGTCANAA
AAATTGATGATCTTTGAACCCTTTATGAGGTGTCCGTTTCCCATTCCCCCTAAAAAGAGA
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TNTACTGCTTGGGTTCCCTTTTCTCCAACTTGATGCTTGGTGGATGCCGCTTGGCGCTGC
AGTCACTGTGAGGCAAGATTGAGAAATTCCTGGTTTGATGGGT
Sequence 4930
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TTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCGGGGATTACAGGTGCTGCCACCAC
GCCCGGCTAATTTTTGTATTTTTAGTAGAGACGGGTTTTCACCGTGTTGGCCAGGCTGAT
CTCAAACTCCTGACCTTGTGATCTGCCCACCTCAGCCTCCTGAAGTGCTGGGATTACAGG

TABLE 1A
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CATGAGCCTGGTTGAGACATGGTTATTTCATCGCAATATCTTGGGGAACCCATGAATGCT
CTGAAATGCCTTTGGTTTANAAATGGATGAAGGAGAGGCCATGGAAATATTTANACCTTT
TGGAGAGATCGAAAGGACAGGTGATTTATCTCCAAGTTCACCTCGAGGCATGACTTGGGC
TGTC

Sequence 4931
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ACTGCTTTTCCTACACTAAAAATACTTCAGTGTATATTTCCCAAAAATAGGAGTAATCCC
TTATGTAACCACAGTGTAATTATCAAAATTCACAAATAGTGTTACAAAACTATTATCTGA
TCTATGGACCTTATTCAGATTTTACCACTTGTCCCAACAATGCCCTTCTCAGTAAATAAA
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Sequence 4932
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGCAGTTACTGCAGATGCTCCCAGGAAAGC
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CGACCACGCTAAGGG

Sequence 4933
CCTTACGTGGTCCGGCCGAGGTCAGTGGACAGTCTCAGCTCACTGCAACTTCCGTCTTCC
AGGCTCAAGTGATCCTCCCTCCTCAGCCTCCTGAGTAGCTGGACCTACAGGTGCTTGTCA
TTACACCCAGCAAATTTTTTGTATTTTTAATAGAGATGAAGTTTCACCTATGTTGCCGAG
GCTGGTCTTGAACCCCTGAGCTCAAGCGATCCGCCAGCCTTGNCCTCCTAAAGTGCTGGG
ATTACAAGTGTGAACTCCCGTGCCTGGCCTGATGATAGTTTCTGCTGACTTGTAGCATTA
ATCATTACAGCAGGTTTCTGCTTTGCATACTGGATATATTTGCTAATTAAACTCAGCAAA
ATACATGTTGAGAGGGATCTCATTTTCCACGTGTAATATAGCANATCATTACACATTCCT
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CACTGGCTGCTCCTTTTCCGTCTTTTT

Sequence 4934
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GAAGGTTTATCACGTGCTTCTCAGGAAAAGATCAGGCTGAAAAATCCCGCCGCTGAGAAA
AAACAATATAAATAAAATGATAAGTCTACAGGCCAGCTAAAAGATAATTAGGAAATAACA
ACAAAAATTAATCTTAATACTAAAATATTTATGAATAAATTGATGTCTTGGATTTCCTTC
AAAATAATCCAAGATTATAGGGAGTAGATAAGGGAAGAGATCAAACAAGACTGGGCCAGG
GAATGAATTGAAGCTAGATGACAGTCATGGGNGGTTCATTACCACTATTTTACTTTTTTA
AACATTTAAAATTTTTCCATAATAAATGGNTTTTAAAAAATGCNTTNTTACACTTCACTT
CGTGAAACCCTGAAAA

Sequence 4935
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AGGGTCACTGTTCATTTATGCTTNTCATTCCTACCCAAACTTGCCCCCCTCCCCCCTGAA
GAAAGTNAACAAACAAAAAACTAGTTCAAAGCTTTGTTTCACAGTGGGCANTNTNTTANC
GCCAACAAAACAACCTCAATTTATTGCTTCTATTTAAAAATGTTTTAANTTTATTTATTT
TTAAAAAAAAATAATATTGTTCCATGANACATTCAAAGTTGCCACTTGGCCTTTGGGGTT
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NCNAANTCTGTNGGTNAAAAAACCTTTTTGGGCCCNCCAATTTTCAATTTCTTCTTTTTT
AAAAATNANCCTTTGGGGAAAATTTTAAAAAAAAANAAAAATTTNCCTTAAGAAAATGGG
TAATTTTAAA

Sequence 4936
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCTTTCTAGACAAGGCAGTTGAGGAGGA
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GTGGAACGGCTGCTTTTGGAAGACTATTGCCCAGAAGAAAAGATGTTTGGTTTTCACAAG
CCAAAGATGTACCTGCCCGGGCGGCCGCTCGAAGGG

Sequence 4937

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GGTACTTTCATCCTCAAAGTGTCTAACTTTAGTTTCATCAGATTAAGAGCTTTAGTGCCT
GGGAGGCTGAGGCAGAAGAATCGCCTGAACCTGGGAGGCAGAGATTGAAGCGAGTCGAGA
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AANGGNANCCNCCAAGTACNGGGNNCNCAAAAANTNTTTNGGCCCNGGNTTNATNTNNTA
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AAAAAAAAANTTTTTTNNCCGGGGGGGGNTTT

Sequence 4938
CCCTTAGCGTGGTCGCGGCCGAGGTACTAAGTCTATCGCCATGCTGTGTCACGTGGGCAG
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TTCCTTTGCCCCATTTTTCTTCCTTATTTTTTATGTATGTTTACCTTGCCCTGTAGGCGC
ATTTGTAAGCTGGCTCAAATCCTTTTGGGAACAAGGTGGGTTATAAATGCACACGTTCCT
ACACAGGATGTTGTTAGTCATTTCATAAGGTCTCTTGTGGAGGAGATTAGCCAATAGCTT
CTTTTGTAACCTTAGGCACACCCTCCTTCCATAAGGGTCAAGTGAGAGTATGGGTCTATA
GGGTCTGTGAGGGGCCCAGCAACTTTGACAGGCTGAGTATTCTTCTATTTCCAACCCGGT
TAGAGTCACACAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 4939
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NAAANANNCCCCCCNNNAAAAAAAAAAAAAANTTTTNNNAANNGNNTTTTTTTTTTNAAA
CCCNNTTTTTAAAAAAAAAAAAAANCCCCCCTTTTTAANANNNAAAANTTTTTAAAAAAA
AAAAAAAAAANNCNAAATTTCCCCNNTTTTTAAAAAAAANTNNTTTTTTTANANNNANAAA
AAAAANNTTTTTTTTAAAAAAAAAATTTTTTTTTTTTCNNNGANAAAAAAAAAAAAANNC
NCCCGGGNNTTTTTTAAAANAAAAAAANTTTTTNCCCCCNAAAAAANNGGGGGGNNNNNT
TTTTTTTTTTNAAAAAAANNATTTTTTTTTNNNAAAAAANNCCCCCCNAAAAAACCCCNTN
NAAAAAAAAATTTTTTTNANNGGAAAAAAATTTTAAAAAAAAAAAAAAACNNTTTTNTTT
TTNNCANNGGGNGAGNANANAAAAAAAAATTTNGAAAAAAATTTTTTTTNTTTTTTAAAAA
AAANNNAAAAAAANNNGGGTTTTTTNTNCCTTTNAAAAAANANANAAAAAANNNGGGGNC
NCCTTTTTTTTTT

Sequence 4940
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AGTAATCACTTTTATGAAAGACACTTGTGAGGATAAATATAATACAGTGCACAGACTATG
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CAGTATTGGGGGAACT

Sequence 4941
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGGAGCTAAATTAGTCCCCAAACCAAATTC
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AAATTTACAATGTATTTTGTCCAGTTACTGAGATAAATACCTCTACTTTTGCACCTAGAC
ATTTAGGAGCCATTGTTTACTAAATTCATTTGATGCTGTCTTCTAAAAGAACTAAAATCT
AGCATCTCCTCTTCATACCTCCTGCCACTGTCTTTCATTTTCCATACCTGGAGTTATGAT
AGTAGATTTTTAACGAGCTTTTCCCGTCTCTGTCTTCTACCTAGATCCAGTATACTTCTG
CAGGCTGGTATGTTTTTCCCCCTAA

Sequence 4942
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGCACAATCTTGGCTCACTGCAACCTCTGC

TABLE 1A
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CTCCTGGGTTCAAGCAATTCTCATGCCTCAGCCTCCCAAGTAGCTCAGATTACAGGCATG
TGCCACCACGTCTTGCTAATTTTTATATTTTTAGTAGAGATGGGGTTTTGCCATGTTGGC
CAGGATGGTTTTGAACTCCTGGCCTCAATGATCCACCCACCTCAGCCTCCCAAAGTTTTG
GGATTACAGGCGTGAGCCACCGCACCTGGCCACAAATCAGAATTTCTATTATCAAAGGAA
GTTTTATATTAGTTGAGAAATGACTGTTTCTGACATAGTCAACCTCTCTGGTCACCATGA
AAATGCATGGTGGCAACCATGAAAATGCTCCATTTACATATTGTTCGTTTGAGGAAATTG
ACAACCCCAGCTACCATTGTTCTGGATCTACTGGGTTCATGCCAAATGCCCAACCCGCGT
ACCTTGCCCCGGGCGGG

Sequence 4943

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGACTT
TNTTTTTTTTTTTTTTTTNNNTTTTTTTTNAACTNAAATTTTTGTAAATTATTTTGTTTC
TTCCATGGGGATTTANAGGGACTATNTTCAAACCAGCCATAAATAATATCTGGCTATTTT
GTAACCAATTGAGTAATTTGTTGCACAATAAGCCACCTCACATTTTTCAGCAAGAAATAC
ATTAAATTTGAATAGTAAAGACGTTACACAGTGAATTAGGACACGATTAAAATTTGCTTT
AAATATTTCTTTGGGGGAAGGGACACCACACTTNTACTCAATGAAGAGGAACATTTTTAC
ATTTCANAGGTCTTTTATTATTTTTCACACCTATTATGCCATGAATTCA

Sequence 4944

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCATTCCGGGTCATCCGCAGAAATTCCTCATA
GATGGCAACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTACACAGGGAGTCCACCCC
GGTGTGGTGCCTGTTGGGGACAGACCTGAATGTTGAAACTTGACAGTCAGAAAAATAACT
CTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGCGCATCCTCAATATTCCTTTTGTTCCT
CTGGTAATTGGTGGTGCCTGGCTGGGCTTTGTCCTGGGAATATGGTAGGTTGGTGATGGT
GAAATTCAGGTAGAAGTGCTGGGTGCTGGAGCTGCTTGTTGGTTGATAAACTGATGACTC
CATTTCTGTCACATGGATGTCCACCAACTGGTAGGTGGAGCCCAACCAATGGAATGAGGC
ATTCAGGGTCTTATCTAGAAAGACTTGCTCCACCAGGCTGGGGTCCAAATTGGAGGAAAA
C

Sequence 4945

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTAAAGAAAATCCTGAAAGTCACCACCTTGGT
CTTTTATAATCGGGACCATGAGGAAGCCCAAGAAAAAGGGAGAAAAGGAACGAGAAAAAG
GCAGAGGCACTAATAGCTGCCATACAGGCATATAAACCTCTCGATCCCAGGGAGCTTCTC
ATTCTATGACCGACTGTTATCAGTGTGGGAGCACTAAAAGAGAGTCTGCCCCCGAAATCA
GAAGCAGCCCCCACGGCCCTGTCCAATCTGTAAGGGAGACTACTGGAAGACAAACTGCCT
CCAGAAACATACCGT

Sequence 4946

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTGAATGGCCCTTTCCTAGAATCAGTGT
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AAGAATTGTCTTGGGCCACATATAAAATACACTAACACTAACAATAGCTGATGAGTTTTT
GTTTGTTTGTTGTTTGTTTGTTTGATGTTTGTTTGCTTGCTTGTTTTTGAGACGGAGTTT
TGCTNTTGTTGCCCAGGCTATAGTGCAATGGTGCAATCTCGGCTCAACGCAACCTNCGCC
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TGCGCCACCATGCCTNATTTTNCATTTTTATTTGAGATGGGGTTTCTCCATGTTGATCAG
GCTGGTCTCGAACTCCTGACCTTCAGNGATCCACCTGCCTTTAGCCTCCAAAGTGCTGGG
GATTGCAAGCCTGAGCCACCGTGCCCCGGCCTTTTTTGNTTGNTTTGGTTTAAACAAAAA
AAA

Sequence 4947

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AAAAATTTTAATTCTAGTTTCTTTTTGAATCTCACGTATTGNCTCTCTTCTTTCAGCTCT
GGATGAGGGGGATATTGCCTTGTTGAAAACTTATGGTCAGAGCACTTACTCTAGGCAGAT
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TABLE 1A
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TAAAGAATCTGACACTGGCCTG
Sequence 4948
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TTTGAGCAATTTAAGTTTTTCCCCAGAATGTCTCCTTTGTTGGTTCCACAAAATGTATTT
TGTTTTTAGTGTTTAAAGTCAACAAACTGGCATTGCATTTTCCTTAACTTACATAAACTC
ATCAGAATTACATGAATATTCCTACTGCTTA
Sequence 4949
CCCTTAGCGTGGTCGCGGCCGAGGTACNCGGGGCTCTTTTACCAAGGACCCGCCAACATG
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CGGTGAATCAAAGACGGTGGCAGCAGGAGAATTAAGGTGACGCATCCAAATGAGCAAGGG
AGATGGGGGTGGACAAAAAAAACCAATGAAATGTTCCTTGACCCCAAGGTCTCAACANAA
GTTTGAAGTCCTTCCTGCGTTAAGAGTCTGCAATGTGTGTCTACACACACCAAGACATCC
AGAGTGTCACANCCTGTCTTCACTGGGCAAAAAGTCCAAGTCACTAATTTAGTGCAAAGG
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TGTTCCTTTTCTCCAAAAGAGGAAGAAGAAAC
Sequence 4950
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCACTCCTCTTCTCAGAACTCGATCAA
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ATGTCTCATGGTCAAAAGAACTTGGAAGCAAAGACTTAGCCATCTACCATGGCCAAGCAA
AGGAACCTGCATAACCCCCAATAGGCCTGGGCACAGTGGCTCACGCCTGTAATCGCAGCA
CTTTGGGAGACCGAGGCGGGCAGATCACGAGGTCAGGAGATCAAGACCATCCTGGCTAAC
ACAGTGAAACCCCATCTGTACCTCGGCCGCGACCACGCTAAGGG
Sequence 4951
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ACAGGATTTAGGCCATATCTATTTAAAAGAAGACTAACAAACAGACTAGAAACGATAACA
CTGGTAAAAAGATCTCTTTACCTGAGCTACAAAAGTCATACATTAGGTAGAGGCTTCAAT
AGTGTAGAAAATATACTAATGTGTTATCTCCTTAGAGACAGATTTAGAACCATGTCAGTT
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CATAAGGAGGCCCAAGGAGTAGTTGGATGGACCTGAGGAAGGACAGGAGCCAGAGGCCCC
CTGAGGAGCTCTGCGCCGCCCCGCGTACAGCCCGTTGTCAATGGAGAGTTCAAAGACCTA
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Sequence 4952
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CAGTTCTTTAGCAATGGAATGAATGACTGGGATCATCGCTTAATGGAGTGTCTGGACCTC
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AA
Sequence 4953
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CGCCACTTTTTCACTTGGCACAGTTCTCCAAATTAATTGTATTAGTAGCAGAGTCATTAT
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GTGAACAGTGGGTGTTGCTGGTGGTGGTAGTGATTAGGAGTTTAGCTTCTACCCCCAAGG
ANAGTTTTGGGATGCTTATTTGNAATACCAAAGAGGGAAGATNTCNAGGGAAAGTACCCT

TABLE 1A
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GNCCCGGGCGGCCGCTCGAAAGGGCAAAANNTCCAAACNCACCTGGCCNGNCCGGTTTAC
CTAGTGGAATCCCGNGCTCCGGNTCCCCCAAGCTNGGCCGTTNNNAATGGTNCATAGCTN
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Sequence 4954
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTAACAGATGTGATTTCACTT
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TAGAAAGAAGAAGGCATGCTTCAAATAGGAAGGAATTGTAATAATGATCTTTGGCCTNTA
CTTTGTCTTAGCTGTNAAACCGAATTTAGTNTTNANGTTAAATATTTGCAAAGGGAAAGC
ATTTTCTNCAGAGGATAATTNATTTCAAGAA
Sequence 4955
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGCATATTGGCGGCGCACGCCTCATTACGAT
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GTCTCTGTCTTCTTCAGTTTCGACTTATCGAATTTCTCGATCTCAGCCATATCGGGTTTG
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TCCTTTTAAAAATGTCTAAATTTGCTTTTGCCATGGCGCTAATGCTAATGGTAAATTATT
GATTGCGTGGCCCATGT
Sequence 4956
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TTCTTTTCATTAAAGGTTTAATCAGCTAGATTAGAGAGCATCATTTGTATTTAACAGCTG
AAACTTCGGTACGTTGCCGTTTAATGAATGAACTTGCATTGTGTAGCCAGGGCCTACAAA
GGCTCTTGTCAGGAATACCAGCCCTGGCTGGGGCTGGTGCTCAAAAGAATTTTCAGGTGC
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TCCACTTCTAGGTATGAGGGTNTGCGACTTTGGATCTTAAAATTATGCTAGACTA
Sequence 4957
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TTCCTGATGATGTTGTAAAACTGCTACCTTGCATCTGGTAGCTGTATGGNGCCTGTCCAG
GTTGAGGGGTACCTCGGCCGCGACCACGCTAAGGGnnnnnnnnnnnnnnnnnnnnnnnnn
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ANGGGATAGTGTTGTTNACTTTGAAAAATATCTNTTCTTGTTGNAAGATTCANCANGGTC
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AGCNNGATCATTNTNNATNTTNNTNCTNTTTANCNTNACCTTTTTNTNCCANTTNTTNNN
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AANNANTCTNNGGCTTTGCAGGAATTAACCNACCCCNAGGAAC
Sequence 4958
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TAGTTTCACTCAGCCACTTCAAAATTANAATTTCTCTGTTGTAGGAATGCTAGCCTTATA
GATCTGTGAAATGATCTAGTTGCTTTATCTATAGTTGCTGGAGAATTGAGTGTTTTGATC
AAAGGTAGCCTATTTAGCTGTAAAACTGTCTAGAATTATTTCATTCCTAGGATAAAGGAA
AATTTGTGTCCAAAATATCTCTAAAGGTATTACACTGTATTCCTTTAATCTTAATGATAC
ACTTTTTTTTCTTATAAATGTANCACATTATACACTAGCGGTCTTCAGTATGATAAACAG
ATCAACTACCAATTTCATTGCCATTACTCTTTGAAATAGTCCTCATTGAGAGTTCTTGAA
ACCTGTGTCTAATAACAAAGTAAAATATAATCAAAAATTTCCACAAGTAGAAGAAAAAAC
ATTGACAAATCTCTTGGGGAGACCACATACTTATTTTTAACAAGAATGAATGAAATATNT
TCAACCTGTAAAAATAGTTTGCAAATGGTCATGGGCTATATTACATTGGNGNGGAGTTNT
TATTACANATGCCATTTCCTACAACATTAAATCTGCAGTAAAATTTAATTAATCCCCTTA
AATTTGGGA
Sequence 4959
CCCTTAGCGTGGTCGCGGCCGAGGTACTGCTGGCAGACAGCCCTCAGCTGTCAGCCCTCT
TTGGGAATTACCTAGCAAAAAGGAGTCACTTCGGCCCAAGATCATACTCCTTCCTGGGGC
AGCTTGCATCTAATGATTGGGGATATAAACGTCCAGCTCCTCTCACCCCAACTTGAGACA

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ACTCTGAGGGACCATCCCAGCTTCAGAGCTCTCCGTGTGGGTTACTGAAACTGTATCACA
GTCCAACTTCTCCCATGGAAATCTGGCTTTCTTCCTTTACATGGCATTGGTCCCAAGAGG
CCTCCCTAGTAAATTTGCTG

Sequence 4960

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGGGGATGCACTTGAGTGCCATTTCTGATAC
TGTCATTGTATGACTGCTGATGCTCGTTTATGTTGTTCTTTGGAAGCTATAGTGAGCCTG
ATGTTTTCACATTTTAAAAAATGCTTCCTGAGACTTCTTTAGGCTCCTCTAACTTCTTCA
GTGCATTTGGGATCAAACTTAGCTCTTAGATCAGCAAACCTGACTTGCTCCTACTTTTGC
AATTTTTCAGGCCTTACCATATTTCTTATCTCTGTCTTCCCACCTGATAGGAAAATCTTG
CAGATTTGAAACAGTGGTTTCTGGCCTGCTGCTGCAGCAAATTCCCTATGTTTATTTAAG
AAGTCGGGCCTATGCTTTTAACCTACAAATGATGAGTAATTTACTTGCAAT

Sequence 4961

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTAATTTTTTTTTTTTTGGGNT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGNNN
AANGCCCCCCCCCNTTTTNAAAAAAAAAAAAAANNNNNTTNNNTNTNAAAAAAAAAAANNNNN
GGGGGGNAAAAAAAAAAAAANNNNNTNNNNCNNNNGGGNAAAAAAAAAAAAAANTTNTNCCC
CCCCCCTTTTTTTTTNTNNNNGGGGGGGGNAAAAAAAAAACCCNNAANGGNTNCCCCCCCN
NGGGGNTTTTTTTTTTTTNAAAAAAAAAAAANTNTTTTTCAANNTTNNCNNCCNAAAANNA
NNAANNGGNNCANANNCNNNTTTCTGGNNGNANTNAATAAAAAAAAAAAANTNNTTTTTT
TTNAAAAAAAAAAAAAGNGGGGNNTTNTTAANAAAAAGAGGGGGNGGGGGGGGGNGCGAC
ATTNTATNANNAGANAAAAAAAAAAA

Sequence 4962

CAAGTGAGCAGGCCACCTGTTGCAGCAAGTAAAGTGGCTGTGTGAGGCCTAGGTGGGGGC
ATCACTGGCTGAAGGTCCGTGGCTTACAAAGTGACTGAGAAAAATCATGTGTCATAAGGT
GCTTTGGGCTACTTTATGATATACTCTGAAGTCCCTGTTTCATGAAAAATGCAGTTTACG
AGTTTTCCAATTTTTGTTGTTTTTGTTCTATGGCTTTGTTTGTTCTATGTTTGTTCAATG
TTACTGTGTATGTTACTCTTTGGGTACTGTTCTATGGCTTCCAACAAGAAATGGGGGAGG
GGAGAATTATACATTATACGTCCATGTTCATATCAGAAA

Sequence 4963

CCCTTAGCGGCCGCCCGGGCAGGTACATATTAACTTAAGTTTCTCTGTAAATGAATGAAA
TAATTGGTGCATTANGTTTCACCTAAAACAGGTAGGGTTGAGGATATTCTGANACTTNTG
TNAAGNTGACCATTCTGGATTCATTCTACCANCCATGANGAGANGACTTTNTAAATCTCA
CNTCATTANCANTATGCNACCAATNCTTTTGGGTGGAAAACNTCATAAANGCTTTTTNCA
TAAGNTTTGTTGGAGNGGGCCAGGNCTCANCAATTATTTCNACTTAATTTGGA

Sequence 4964

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTATGTAAGATATGACAGTTTTTGACTTA
AGATGTAGCTTTTGTAATACTATTTTGACCTCTTCTGCTCTCATTTGGTTAATATTTGCA
TGCAATGTCTAAATCTATCTTGCCACCTTCAGTATGTTTTTAATCATTAGATGTCAGCTG
ACCCTTGTAGAAAGGCAAATTGGATCTTGGTTTTTAATAATTTTAAATAAATTTCTTTAT
TGAAAGTATGTCTCTTGATTGGAAAGTTTTCTGAAACAAAGAGACTTACTAATTTTTTTT
GTTGTTCTATTTGATTCTTGCATCTTTGTCCCACATTTTCTCTCTTTGTTTCTCTCTGNG
GCTGTTTTATTTTTACTTTGATATGCTTTTACTTCTT

Sequence 4965

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCTAAGAATTCAAACTTCAGCAGTCATGGGTG
AGTAAGGAAGTCTTATAAATGTATTTTAGCCACCTAACAAGAAACTAGAAATTTAGCAAG
TTCTTTCACATTCAGGACAGTTGTGTTCACTAGATCAGAGGCACTGAGACATGAAGAACA
GACCCCTAAAAAGGGAAAGTGTTCCTTTCAGTTTTAGGACACCACTGGAATATTAGGGAA
GTGGAAACACAGCTGCCCACTCTACAGTATGGGTTGCCTTTGTGTCCGGAATGTGCCTAA
CGTCCTGACCTCCATGCCCTTTTCAGGGAGCCTTGGGAGGAGCCCGAATCACTGATGGAA
TCGGACAGTGCATGGAGATGGTTCAACAGGACGAGGGTAAAGTGCAGGGGCAAGTCCAGG
TCATACTGAGAGACAACGAGTGGCGCTGGACAGAGACAGACAAAGATAAAAT

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Sequence 4966

CCCTTGCCGCCCGGGCAGGTACTTCAATCACATAGCTTAAAATATGGAGAAAAGACAGGT
AAAAAAATTATCTTAACCTGTAGTAGTCTTTTTTCTTTTTAAAATTTTTATAAAATACAC
TAATTTCCCAAAATAAAGAATATTATGACACATTGGTGTCAACTTACACAGATGAAAGCT
GATGCCAGCTTTTTCCTAACTAAAGTTCATTTCACCAAACCTTTATATATTACATGAATA
TCCAAGTAAAGTATTTTTTTTTTTTAAATTCAACACACAGGAACATAATATACATTGTTTT
TTTTTAAAAAAAAGGTTAATTTAGGAATGATTCATCTTCAACCACATAAAGTATCTTTTT
AAGACCATGAAACCTCTTGTCATTGCAAGACTTTTCAGTTCATGTTTCTATTTCCCAGTT
TTAATTCTTAAAGGAAAAAAAAAAAGATGAAAGGGTTTATTATGTATTTCCCATGAGAAA
ACTGTGGTAAGGATCTTATTCATTACCAG

Sequence 4967

ACTTTTTTTTTTTTTTTTTTTTTTTGGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TNAAAAAAAAAAAAAAANTTTTTTNAAAAAAAAAANAANNAAAAAANTTTNCNNAANNNC
NNANAAAAANNNNCNNNNTTTTTTTTTTNNGGGGGNNAANNNNNCNCCCCNNAAANTTTT
TTTNNNGGGGGGGGGNNTTTTTTNNNAAACCCCCNNTTTNGGNAAAAAAAAAAAANTTTT
TTTTTATANNGGGATNAAAAAAAAAAAAATNNGGNAAANAATTTTTTAAAAANNNNGNNT
NNTTTTTTTTNCCNANCCTTTTTTTNCCCNAAAAANGGGGGGNNNGGNCCCCCTNAAAAA
AANCNCCCCCCCCCCCCAAAAAAAAAAAANTTCNNNAAAAAAAANNCCCCCCCCCCCCCCC
CNNGNNNAAAAAANAAAAAAANCNTTTTTTTAAANNGNNTTTNTTTTTNAAAAAAAAGNG
GGGGGGNAAAAAAAAAAAAAANGGGGGGGNNCCCCCNTTTTTNAAANCCCCCCNAAAANN
AAAAAAAAAANTTTTTCCCCCCNTTTTTTTTTTTTTTTNNNNNNNNANNNCAAAAAAAAAA
NNNNTTTTTNGNGGGGGGGGGGNAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANGGGGCN
TTTTTTTTTTTTTGGNNGGGNNTTAAAAAANAGGGGNCCNTAAAAAAAAAAAAAAAAA

Sequence 4968

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCATAAGAAAGATTGATCTAAAATTTTATTG
TATTGTCCTTTTCCAGTGTTTCAGGATAATATCATACCTCATAAAATTAAATGGGGTAGC
TTCCTGCACCTCTTACCTTTTTTCTTTTTCTTTTCTTTTCAGAGACATGATCTCACTCTG
CACTCATGCTGGAGTGCAGTGCTGTGATCATAGCTCACTGCACCTGGAACTTCTGGGCTC
AACTATCCTCTGCCTNACCTCCAAGTAGCAGGGACTACAGGTGCCACCACCAGAACCTGC
TAATTTTAAA

Sequence 4969

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNN
ANAANAANNANNNNACTTTTTTTNNANNANAAAAAAAAAAAAAAAAAAAAAANNNNNNNN
NCNNCNNGATANTNTNNNNNNNTTTTTTTAANNNNNNGNNNTNNTATAANTTTAAAGAGC
AGATAACNCNANCCACTTTNNGNNGGGGGGGGCNGTTNCNGNTGNGNAGAAAAAAANTTT
TCTCANCNCCCCATGNGGGGNGGGGACANCNANGTTCANGGNTNAATTANAGGNTGCCNG
NNTTTGNNAAAAAANTAAACAATGCTTATTGAAAAATTATNNNNNAAAANCANNANGAGG
NNGAGAANNNNTNNGANGNNCCNNNAAAGGAATTGGGNNGNGNTTGGTTNTAAAAANACNT
NANAANANGGGNGGGGGCNGNGNANANAATGGNTNAAATANANNNTTNAANTNNANNNNA
TNCNCCCAATTAAANGGGNTAAAAAGGNNNNNATNTTTTTTTTTCTNCTNCCCNNNGCCC
NATTTTTTTTTTANAAANAATANNTATTTTTTTAAAAAAAAAAAAA

Sequence 4970

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGTGCTCTGTAATTGATTACAAAGGTTAATT
CATTAAGAATATTTTTCCAGTCATTTTACAAAAAATATTCTCAATAAAATCACCAATTAT
ACCAAATAAACATAAAACACTCAAATCCTTCTAACAATACTTTATATATTTTAAATACCA
TTTTGAAGATGAGTCAGAAAATTACCTGTTTCTGAACCTCCACCTGCTCATACACAAGGG
GTATAGGTGTACGCGGGGAAAGAATTCAAGAGTCTATATGATTAGTTACAGAGAATATTT
TCATCCCCTCTCCCTGAATAGAAAAGCAGGGGTCACCATTTGTATCCTTACCCTTGAGGT
GTTTTTGAAGATGCTGTAACTCTTGAAGTTGAGCTGAGGCAGAAAGGTTGGAAAAATGCA
GCCCTCTGGGTATT

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Sequence 4971

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAAAATTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTANTTNAAAAAAANNNNTTTTTTTTTTNTNATGNNNNAANAAAAAAANNNNNNGN
GANAANNNTTNNNNTNTTTTTTTTTTTGNNNGGNGNNNGNNNNTANNTNNTTTNTNCNNG
NNNNGAAAANCCNTTTTGTTTNNAAAAAANTANNACNCCCNAAAAAACCCCCAANATTTT
TTTTNTNAGANGGGGGGGGGNCNCAAAAAAGNCNCCGAAANTTAAAAAANNCAGNCNNGG
TTTTTTTCCCAAAAAAAAANTTTTTTTTNGGGGGGGGGNAAAAAAAAAAAAGNANGGNGG
GNGNTTNTNGNAANNGATNGGNNNGGTTTTTTNTCCCNAAANAAAAAAAAATTTTTTTAN
NAAAAAAAAAAAAACCTTTTTTTTTTAGNNNNANAAAANNGGGGGGGGGGGGGGNGGGGG
NAAAAAAAAAAAGGGGGTTTCTTTTTNTTTTTTCNGGNCCGGTTCNNAAAANGGCCNAAA
NTTTCAGTNCCCANTTGNGGGGGNCNAAAAAAAATAGTGNGNTTTCNAAACCCCCGNNNC
CCAAAAGTTTTGNNGTAAAAAAAANAGNACAATNANCGGGGGGNGGGGGNGGNCGNAAAAA
AAAAANATNNTTNTTTTTTTNTCNCCCCCCTGNGNNAAAAAAAAAAACNCCCTCTTTTTN
TGGAAAAAAAAAAAAAA

Sequence 4972

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTTGCTGGGGGGTTCAGACAAGCAAGTAT
CTCTTTTCACCAAGGATGGAGTGCGGCTTGGGACTGTTGGGGAGCAGAACTCCTGGGTGT
GGACGTGTCAAGCGAAACCGGATTCCAACTATGTGGTGGTCGGCTGCCAGGACGGCACCA
TTTCCTTCTACCAGCTTATTTTCAGCACAGTCCATGGGCTTTACAAGGACCGCTATGCCT
ACAGGGATAGCATGACTGACGTCATTGTGCAGCACCTGATCACTGAGCAGAAAGTTCGGA
TTAAATGCAAAGAGCTTGTCAAGAAGATTGCCATCTACAGAAATCGA

Sequence 4973

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTAAAAAATTTTTAA
TGTAAAATACCCCTTTAAGGATAGAATTTAGGGCCTTGAAATTCTACTCAGTTGCTATGA
ACTGTGGGGAATTTGAGACAAATAGCTTTTGTAATTGGAATGCACACTGTGTTGTAATAA
TGTGGAAAGAGAAACAAAAACTTTCCTTAATGTAATGAGTTTCCATTATCTGCCTAATCT
AAGGTTTGTAAGTCTACATTGTCAGGATTTATATTGAGGAGATAGGGGGTGTCATTTTCT
GTACAAGATAGTTTTAAGTATGTTCTAAATATTTGTCTGCTGTAGTCTATTTGCTGTATA
TGCTGAAATTTTTGTATGCCATTTAGTATTTTTATAGTTTAGGAAAATATTTTCTAAGAC
CAGTTTTAGATGACTCTTATTCCTGTAGTAATATTCAATTTGCTGTACCTGCCCGGGCGG
CCCGCTCGAAAGG

Sequence 4974

CCCTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTAAAAATATATA
AGAAATTTATTAAAATACGTATTCAAGACTCACAAATGTATGCATTTTATTCATACTTCT
AAATAATATAATCATAGAAATTACCCTGTAGTCAATGTCTATTTATTTATTCATTTTGAG
ACAAAGTCTCGCTCTGCCACCCATGAAGATGGTTCTATTTGAAAGTAATATTTAGGCCGG
GCGTAATCTCAGCACTTTGGGAGGCCAAGGTGGTCAGATTGCATGAACTCAGGAGTTCNG
AGACCAGCCTCTGCAACATGGCAAAACCCTGTCTCTACAAAAAATCAAAATTAG

Sequence 4975

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAAATTAGCAAGGTGTGTTGGCGGGCGTCT
GTAATCCCAGCTACTCAGGAGGCTGAGGCACGAGAATTGCTTGAACCTGGGAGATAGAGG
TTGCAGTGAGCCGAGATCATGCCATTGCACTCCAGCTGGGGCAACAGTGCAAGACTTTGT
CTCAAAAACAAAACAAAACAATACAAACAAAAAACCTTTGACTCTTGAAAAAATTATATC
CACTTCCAACTGATGAGGGGTTAAATGATTGAAATTATCCCAAAGAATATGATGCAGGTC
ATCAAAATCTGAGTTCCAAATATGTTTTGAACAATAGAAAACATTGAGAAAAACTNCATA
ACCTTCCAAAACCATTACTTTGAATTGNGACATTTATTTGAAAA

Sequence 4976

CCCTTAGCGTGGTCGCGGCCGAGGTACCGTCCTTCATGACAGCAGGAAGACCCCCGGCAC
AGAAGAACAACCGCGATGTCAGCACCGCGGGGATGGCTGCCGGAAATGCTCACTCACTTC
CCCCCGCGTACGTTAGTCTGGGGATAGTAAGTCTGGGTTAATCTATTATTAAATTATTAG

TABLE 1A
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CCTGGGTCTCCTTGGAAGCAGACAGNGAGACAAGGACTTGACTTCAAATGGTTTATTTGA
GATATAATCCCAGAATATAATGATTAAAAAGTACCTGCCCGGGCGGCCGCTCGAAGGGnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnATTGTNATCCCGCTCACAANTTCCACAC
AACATAACGAGCCCGGAAGCATAAANGTGGTAAAGCC

Sequence 4977
CCCTTAGCGGCCCGCCCGGGCAGGNCCTCATATATGTATGTATCTTCCCTGAACCTGTAA
ATTTGGACTTCTTTACAACTTAAGCTCATTTGCTATTTTTGATGCAATGTTCTTAAAGGC
AATAGATGTCCCAGATATTCGCTTGAAGCGAACCCCATTAAGTGACAGTCGTGGCAACTT
GCAGACTTCCATCTCCCACTGCACGAGGCTATCCTGTCTAGCGTCTCCATGGACACAGAA
AAGCAAAAATCTCTCTTTTTGCTCATAATCACAGTTATTTGCATCTAACACTTTTCGGAT
TTCTCTCATCATGTCATTAGGGGTCCATTGAACTAGTGGTCTTCATACTCCATGTGAACC
GCAAAGAACGCGGCTTAAAATCTTTACCCTCTTCCTTGN

Sequence 4978
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGCACAGCAATTGCTGTATGTTTGTTTTTA
ATTATCGGTTTTCACTTGGAGGGGCCAGTTCTCTATATTCCAATCTATTTTCTATATCAG
AAATGAGCAGGCATTTTAAAAAATGGTTTTCATTGATGGAGAGGTAAAAGTGAAATGGCT
TTGTTGTATTTATATTATAAAAGGCCATTTCCCAAATCTAGAATTTATTACTAAAAATCA
AGTTTGCATTGAGGGGAGGAGTATGATTTGCTCAAGCTTACTTTTTTTATAGGTGGGGTT
TTTATATTTTCAATGTGATTACTCACCCATACAATTTCAGCTCTTTCAAAGCATTCTTGT
TGGCTATTTTCAGAGTCCAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTCGGCCGCGACC
ACGCTAAGGG

Sequence 4979
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTATTAAGAGCCAAGTGTAGCTCTTTACATG
TAGTAACTCATTTATCTTTACAAGGGCTCTCTGTGGTAGATACCATAATCCCCATTTTGT
AACTAATGAAACTGAGGATCAGAGAGGTTAAGTAACTTGGCAAGGTTACATAGTAAATTC
TGGGCCCAGATTTACACCCAGGCAGTCTGACTTCACAGCCCTTGCTCTTGGCAGATATTA
AAATGCCATGCAGTAAATACAAGGAATAATGTGAATATGAAGAAAGAAACTCCTGAATGG
GGGTGGGATGGGGATACTGTTGTTAGAGAAGGGAGAGAAAAGTGGAGTAGAGAAGGTTCT
CCTTAGAGCTGACTGTTTGATCTAAGCTGGGAAGGAAGAGTAGGAATCATTCACATGGAT
AAAGGAGAGAAGGGCATCCTAGGTAGAACATATGCTGAAGCACAAAAGAACCTAGAATAC
TTACATAACAGATCAGGATGTCTAG

Sequence 4980
NCNCCCTTTCGAGCGGCCGCCCGGGCNGGTACCCCAGTCCCATTCCTTCTNACTGACTGG
GGCCTCCAGCCACCCCTGCCAGTGTTCTCCAGCTGACANATACTTGAATTCTCCCTGGGA
GAGAGCTCCCAGAGGGAGGGGCAGGCTGCCATCATTGCTGTTTGGGCGACTTAGCTGTTC
CAGGCCTTCAGGCTTTGGGGANCTTAAGCAAGGGGTTGGAAGGGGAACCCCAGCACAGTA
ACAAGCTTGCCCCGACAAAAAAAA

Sequence 4981
GGGCGAATTGGGCCCTCTANAGCATGCTCGACGGCCGCCAGTGTGATGGATTATCTGCCA
GAATTCGCCCTTACGTGGTCGCGGCCGAGGTCTGCCCTGCAATCAAGANGNCTCTTCAAA
GAGAGAATCAGCTCAAACTGGTCAGCTCTAGATTAGAATGGAAGTTCTTGGTGCCGGCCT
TTTCTTGATTTTGGAAGCTTCAGTCACTCACTGCTATCAATTGATGAGGTTCAATCCATG
ATATTTTGATCTTTAGGTGAATTCTAAAACATGTTTAAAGTTAAAAAGGCCGGGCGTACC
CGCGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCCACTGGCCGNN

Sequence 4982
CCCTTANCGTGGNCGCGGCCGAGGNACTTTATTTNTTTTNTTTTTTTANNNACNCATNTT
ATTTTTTTTTTATANANGNTTTTTNTTNTNCATTTTNTATTTTTTTGNTTTTAACTTTTT
TTNTTTTNNCCTNGNNCNCCNGGNCTCAAGANAAAAAAAAAANANANATTTNAATTNAAN
TGGGACCACAGGCATGTGCCACCATGACCGGCTAATTTTTTTTACTTTTCAAAGANAGGA
GGGGGAATCTCACTTTGTTNCCANGCTGNNNTAAAACTCCTGGGCTCAAGCAATCCACCT

TABLE 1A
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GCCTCGGTGGCCAAAGTGCTGGGATTACAGGTGTGAGTTGTTTTTTTTTTAAAAAAACAG
NCTTACCTCANTTTGTCACCCAAAAANGGGAATGACTTTCNAAAAATTGCAAAAAGCAAA
AACATATTCCTTGCTGGTAANAAAAANAAAAGNCGNATCAAAGGGGAAANAATATTTNTC
CTTAAATAAAAATACNAAATANGAAAANGTATGTTTAACTCTAACTCAANAAAAGGTATT
GTAAAAAACAAAAAGGTT
Sequence 4983
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTNGGTTTTTTNGGTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNNNGNAAAAAAAANNTTTTTTNNAAAAA
AAAAANNNCAAAAAAAAANNNNNNNTTTNNNAAAAAAAAAAAAAAAAAANTTTTTCCNNG
GGGTTTTTNTNNTTGNAGGAAAGGGTTTTTTNNGGNGNGNTTTTTNAANGGGGGGNTTTT
NTTGANGANGNNNTTTTTTTTNTNAAAAAAAANNTTTTTTTTTTTTTNNAAAAAAAAAAANG
GGGATTTTTTTTT
Sequence 4984
CCCTTAGCGTGGTCGCGGCCGAGGTACCACTTGTCTTGTCTACATTATTCTAACAAACAA
AATTATTCAAACAAACAGATCTCTCAGTCTTGAGCACAACTTTTCAATCCAGCCACATCA
GCCAAAATGATCATACTAAAGCAAATCCTGTTATACCTGTGTTTAAGATACTTTCTTTGC
TCCCATGTCCTTGAGTTAGCTGACAAGGTCCCCAGCTCACTTCAGGCTGCCCTCTCTGTA
CCTGCCCGGGCGGCCGCTCGAAAGGG
Sequence 4985
CCCTTAGCGGCCCGCCCGGGCAGGTACAACCATAGAAAACATTCGNGATTACTATTAAGT
CTTCCAGAGAAAATCCGAAGAAGTCCTTGTCACCTTGAAGGGCTCCCCTTTCAAAATCCG
NCNATCCAAAGAAAAAAGAAAGAAATTTCCCGCACTCCCTTTCTTTTCTGGAAAAGGAAC
AAAAAAAAAGGAGGAAAGTTGAGGCCTAAATTAAAGNCTTTTTATAATTTATTATTATTA
ACAATGTGACAATTGCACATCTAAATACCACATTTTAAGTTGGATC
Sequence 4986
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGGGTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTTTTTTT
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TTNTNNANNANTNAATAAAACAGNANNACAAACAAATTNANNTAAATANNGNAANTTANG
ACATAAANCTNCNGTTGCNCACCNTTNANAAAAANNGAAAAAAAATTATNTGTNANCNAA
GGAAAAAAAAAAAATGANNTTNTTTTTTTTTTATTAAAAAANACCCNTTTTNATTTTAAAA
AANCCAGGGGGTGGGGGGAAAAAAAAAAAANTTTTTTTTNNAGAAAAAAAAAAA
Sequence 4987
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATCCTCGGCCGGGAGTCCCCACTGTCTCTCT
ACAATGAGGAGCTGGTGAGCATGAACGTGCAGGGTGATTATGAGCCATCTGATGCCACCG
GGTTCATCAACATCAATTCCCTCAGGCTGAAGGAATATCATCGTCTCCAGAGCAAGGTCA
CTGCCAAATAGACCCGTGTACTATTTGATTTTTGCCTTAGTGATTAAAGGAGGAACATAT
GTGGAAACAATCATCAGATCTGAATGCTACCTCGTCTGCTTCCTATTTTTGTCATCTAGG
ATGGGTCACAATATTCTTGAGCCTATTTCTTCATCTTAAATCTCAATATAGAAGTTCCCA
AGGTTGTTACGAGATTGAGAGGCCACGTAAGCATTGCTTTGTGCATGCTACAGCTCTTTT
TGCACAAAAGTCGTTATAATTGTTGCAACCCACAAATAAAAGG
Sequence 4988
CCCTTAGCGTGGTCGCGGCCGAGGTACCTACATTATTAAAGATAGTCAAGAACTCTAACC
CAAGCATATGGGCATTAAANAAACTTATTAAGCCTTTTCTTTGCAGGAGCCAAAGGAGAC
AGGGGAGCCCCAGGTTTTCCTGGCCTCCCGGGCAGAAAAGGGGCCATGGGAGATGCTGGA
CCTCGAGGACCCACAGGCATAGAAGGATTCCCAGGGCCACCAGGTCTGCCCGGTGCAATT
ATCCCCGGCCAGACANGAAATCGTGGTCCACCANGCTCAAGAGGAAGCCCAGGTAAAGGG
TTTACTTTTAAACAGCATAAAATAACAAAAATCATGTTTGACCTCAAAAGTTTTTCAACC
TTCTCCTCATGTTACCTTGTTGCTTNTTNTTTCCCTGTGGTCATNTTCATTCCCCCACTA
CCTGTGGTTTCCATACCCAGCAGTTGTCAANGTAAAGGNAGCCTGTTTGAGGGATGCATA
GTTAAT

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Sequence 4989

CCCTTAGCGCNGNCCGGGCCGGTGCNCNGGNGACATGGNNNNANTNAANNNGGNCCNGGA
TGAGGAATAANACCAAGGCCNACCATGCCCCATGCTCAGCAAGNANCTGATNNANGTTNN
NGACCCTGANNTCTTGNNGNACTCACTGNATAGATGTTATNANAACTCCTTCCAGTTNAC
TNNNNNGCCTGACTCCTGCCAGCCCTATGGAACTCCTTTTTGCATTGGAGGAAAAGCATG
TACGGCTTTTCTCTTGACNGCNGGAGAAATACAAAAGAAGGGGAAGGGGAAGAAAAGAAG
GGGANGANNATCTTTTATTACTATACAATGACACCGNTCNTGTGAGCTCACCANNTGCTG
GGTNNNNNANCCNTNTNNCTGNGGATTTTTGAAGACTAAAGAAGTTTTTACCCTAGATCT
CTTCCAGAACAAAATANAANTTTCAGCAAATACTTACTGACCTTTAAAGCCTTGTTGTGG
ATTTCTGANATTTAAAGATACTTTAAAATTCTCAAGAACAAAACTTTCAAACCTCTGGTT
GAAAGAAATATACCCAGTTCAATCNCTGCANTANAATTCCTTGNAGATAACAACTGGAT

Sequence 4990

CCCTTCGAGCGGCCGCCCGGGCAGGTACCAGACCTGGAAAATGCTTCAGACTTTACACAG
AGAAAGCTTATAAAACAGAAATGCAGGATAACACCTATCCTGAGATTTTGCGTTCTAATT
TAGGATCAGTTGTGTTACAATTGAAGAAACTTGGTATTGATGACTTGGTACATCTGAAAC
TCAAGACTCTCACTGATTGGAGAGCTTGTGGAAAACAAAACACACCATGCCAATAAATGA
GATGAAAACTTGAGTTTGCCTTTTTAACTATTTATGTTCTAAGTTAAAGCTTTGATAACA
TTCAAATGTCAAATTCTCTCATTCTTATAAAAAGTTGAATTAATTGCCTGTATTTATTTT
AGCAATTATTCAATGTATTTCCAGTATAGGATGTATAGTATAATTAAATTTTTTTGTAAA
TAAAATATTT

Sequence 4991

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCCTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAANNANNGGNTTTTTTTTTT
NTNAAAAAANTTNTTNNNAAAANNCANTTNNCNAAANGGTTNAAAAANANCCAAAATTTT
TCNANCCTTANTNCTTTTGNAAANAAAAGGAAANNTGNGNTTTTGNTNANNNNNNGGGNN
CCCNTTTTAAAAAAANNTNCNTTNCCTTGGAAGGGTAAAAANTTTNGGNNCCCCNCNAAA
ANGGNCCCCANCNTGGNNGGAAANCCCTTTNGGGGNACCCNTNGGNNAAAACTTTTTTTG
GGGGGCCACNAGGTTNAATTTAAAAANTTAAATTTTCCCCCCANNAAATTAAANTAAGGG
GTTAAAAAAAAAAG

Sequence 4992

NGGTACAATATGACAGGCTGGGCATGGTGCTGTAGGAATACAGAACACACATTCTATATT
TGTTCTGGNGGGGCCTAAAGTTGCACATTTNAATCNTGAGGAAAGACAGGGAATTNGCTG
AAAAAGCTAATATCAAGTGTAAAGACCCTGGGTCAAAACAGAGTTACTTAGGAAGTCATA
GGTTCTTAAGTGCTGCTGGATCACGGAGTGCACTTAAAGAGTGCATTAAAGATCTATTAC
TGTGTAAATAGTGATTTAAATTCTCAACTAATTATTTGCTAATTAGGAACTTTNAAAAAA
AATCCCTGGCTTTGTCTACCGACTCAATTCACCTTTAACATATGTTGAATTTTTCTATAT
ACTATGGGGTCTTTGGGGCTATTCCTTTGGTGCTTTTGNGATTTTTTTAAAAAATCTGTT
TTTGAACTANATTCAAATGGGNTTTCCTTAATGTAGCTTTATAATG

Sequence 4993

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAGACCCAACATACAGGAGGTGTTGATTCTCA
TCCCTTGACTCAGGACATGTGTGTAATTGTTAATGTCATCACAAGACCTTTCTACAAATG
TCTTGTGACATACACCTTGGCCCAGCATCTGAGTTATTTGTCTCTTTTTCCTGGGCCCAG
TTCACAGTGCTGTATCACTGGACCCAGACCCTTGGTAATGTGATTGTATTCTGCCTTGAT
ACAGCCCATAAGGGTCATTGTGACATATCACAGGGTGTTGCACCCAGGTGGTTTGAGTCT
CCTCTTCTGCCTTGGTGCTACCCACAGGTGTATTGTGACATATTGCTGGGTCTGTGTTAT
GAGAATCTTTTGCTTTTGCCCTAAACATATAGGCCATTGTAACATTGCTGAGTCCAACAC
CCAAGGTGATGTAACGCTTCATNCTGGACCTGTCTACAGAGGGGATTGTACCTGCCCGGG
CGGCCCGCTCNAAAGGGCGAATTCCAGCACACTGGCGCCCG

Sequence 4994

CCCNGGNGCGGNCGCCCGGGCAGGNACNNTNNGNGTGACTCCACACCCACAGAAGGAGAG
GGGGATGAAGAAATCTGCCAGGAGGGTGCCTCCCGCCAGTATCTGATGAAGAGTGACTCA

TABLE 1A
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GCCCTGGCCTCATGGACCCTCCACAGGCTCTCCCTCCCTCAAGGGTGCAGAATGATGAGG
ATTCCAACCTNCAGCACCGACAAAAGCAAAAACACACTCGCTCTGAGAAACCGAGGAACG
AGCCAGGACCGACCTGGAGTTTGCCAAGAGCAAGTCAAAAAAACATTCTGGTTGAGNAAT
GGTGAGCCGAAGCCTGGGGACAGGGTTTCTGCTTCAACCACCCAAGGAGNAAACCCGACT
GCGGGGAAAAAACTTGACTCTTTTGCCATTATGAATCCAAGTTGTGGAAAACAAAAGAGT
CCTCTTCGGTGGGAAAAGAAAAAAAATACGCTCCCTTTTAAACCGGTNGGGATTNGAAAA
ATGACCTTTGATTTATAAAAGGAGAAAGAACTGGAGGGGCCGGGGGATACTGATTCAAGA
AATTCCTGTTAGCCGTGTNAATAAAAAAGAAAGGAA

Sequence 4995
CCCTTAGCGTGGTCGCGGCCGNGGTNCAGNGTCTCTAGTCTTTTGTAATCTGATAGAATA
GTCTTCCTTATCTNCTTTTCCCCCCCTTTAAATGACATTACCTTTTTGAAGAGACCATGC
CAGTTGTTTTATAGACTATCACACATTCTTTATTTGTCTCATTTGTTTCCTTATGTTATT
TAACTCATTCCACTAATCCTTGTNTTTCTGGTAAGAGGAAGTTAGGTGTAAAGGTTGATG
AGACTCGTTTTTGGTAANCAGACCTNACAGTGATNCACAGCGTTGTATTTCATATTGCAT
CATCAGGAGGCTCACAATATCAGGTTGCTGCTCTTGTGGTGCTGAGTTGGATTGCGTAAA
GGTGGGGACCTTCAGATCTTCCACGGGAAAGGTCCTGCCCNGGCGGCCGCTCCAAAGGGC
GAATTCCAACNCACTGGCNGCGGNTAAAAGGTGGATTCAACCTCNGGACCAACTTGGCAT
AATCATNGGCATAGGCTGNNCCNGGGNANANAACCANAANACCNTNTTAAAAAAAAAAAA
A

Sequence 4996
CGACTCAAGCTCTACACGGGACGGGACGACCGGCACTTTGTGCCCACAGGTGTCTACATT
GTCAGGACTGTGACTGAGCCGTGGACCATGGCATTCAGCAAGGGCTGGAAGAAGAAGTTC
TTCTACAACAAGAAAACCGGCGAGTCCTTCTTTACACTCCCCCCAGAGTCCATTGCCCCA
TTCCATACCTGCTACTACACCCGGCTCTTCTGGGAGTGGGGAGATGGCTTCCATATGCGC
GATTCCCAGAAGCCCCAGGATCCAGACAAGCTGTCCAAGGAGGACGTCCTTTCCTTCATC
CAGAGTCACAATCCTCTAGGCCCTTAGATTTCCACCTGATGAATGTCCTGTCATTCTTAA
GGCAGGGCCCAGTGACTGGGTTCCTTCTGCCTCTTAGAAAGGCACTGGGACTGTTCTCCC
TGGTCACAGGGAGATGGGCTCCTCTCCATTCCCAAGGAGCTCAATTGGGACCTTAGAGGA
CGTATCCTTGTGGAACTCTGCTGCCTGAGAGCTTGACACCAGCAGCAGGCAGCCTCCAAA
GCAGCTGCTTCGGGGCAGGTCAGTGCTTTAAGCACTTGCCANANTGGCAGGCTTTTGGGC
CCAACCATTCCCATTGTAAATATGTGGGACTCAGCAGTGNTTCTGAGTTTCATTTNCTGG
TCCCCAAGAACAGTCANCTTCTTGTTTTTGCCCAACTTTTTTACTAAGGCTAGCCAAATT
GTGGGAGCCCCTCCATNACCGGGCTGGGCCAAGGANCCCCCTGTNGNNCCAATCAAAANT
TGTTTTTTGNGGGCTTT

Sequence 4997
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTTTCATTTTTTGATGATGTGAGGGCCA
AGAGCCTTGGCCTTGGTTCACTGAAAAACTGAGACAGCTGAGTATAAAGGGGTCCCCAGA
GAACCTCCGACCAGCCTGCGCATGGGGAGAACGGGATGGAGCCTCAGAAAGTTTGTGCCA
TTGTTTTGCAGTGGGGAGGAGCCTGGCCTCTCCTGTTCTGGGGTGGAGTCTCGCTTTGCT
GAGAGTCCTTGTTTCCCTTTTGTTCCCTTTTCCTCCCTCAGCCCCTTCTCACCCCTTTGC
TGTCCTATGTAGTGATTTGGTGAGAAAT

Sequence 4998
CCCTTTNGAGCGGNCGCCCGGGCAGGTACCTAGCTGTTGCTTATACCTATTATGCCANAT
AATTATCTCTATCCTTTTTTTCTAGTATTGTGCCACACACACACACACACACACACACAC
ACACACAC

Sequence 4999
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGATTTGCTTTCTCTTACAAAAAGAAAAAAA
AAATCCTGTTGTATTAACATTTAAAAACAGAATTGTGTTATGTGATCAGTTTTGGGGGTT
AACTTTGCTTAATTCCTCAGGCTTTGCGATTTAAGGAGGAGCTGCCTTAAAAAAAAATAA
AGGCCTTATTTTGCAATTATGGGAGTAAACAATAGTCTANANAAGCATTTGGTAAGCTTT
NTCGTATATATATTTTTTAAAGAANAAAAAAACCCTTGAGCCTTAAAACGGNGCTGCTGG

TABLE 1A
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GAACATTTGTNCTCTTTTAGNGCATTTCCCCCGGCCTTGGCTTGGTCNCTGCAGNCTTAA
AAAAAGANGGTAAAAGGGCAGNCCAAGGGGAAAGGAAATTNTGTTTNTNGGGAATTGTTT
CCACCCCCCCCANNAAAGGGCCCCGANACNCNCCTGGCCCCCCGGGTTGCCCTGNCCTGGG
GNCCCCCTTGGGGNAAAGGNCAAAAACCCCGTTCCCCNTTTNNGNNCCCTNNGCCCCNTT
TAAAAAAACCCCNNNNGGNTTACCCCTTTTAANAAAATTTCCCCCTTTGNTNAAAAATNT
TTTNTTTTTTGGGNNGGGGGGGGGGGTTTTTTTTTTTNNCCCCAAAAAAAAAAAAA
Sequence 5000
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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTANAAANANAAAAAAAA
ANTTTTTNANTNGAATNAAAAAAAAAAAAACTTNNATNNAAANAAATNANGGAAGGNNTT
TTTATTTTNGNNNGNTNTTTTTTAGAAAAAAAAAAA
Sequence 5001
CAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGTGTTGAATAGAGACCACAT
TCTGGTTGAAGACACTAAGCCATCTTATTTCAGCCTGAATCTAGTAATCAGAAGCTCACT
AACTCTTGATGCCTCCTGCTTGCTAGTTAGATAACTCCAAAGATTAGAGAGTACCTCGGC
CGCGACCACGCTAAGGG
Sequence 5002
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTGCAGAATTGTTA
GTGACTGGGGAAAAAATGAAAACAACTGAAATGACCTCAGTAGAGGAATGGCCAAATAAA
TTATGATATACTCATAATATATAATATCAAGTATCTGTTAAAATAATGCAGTAGTTTATT
CTATACATCATGCCCGCGTAGTCTGCGTTGTTACCACTGCTTACTTTTTTTTTTTTTTTT
TTTTTGGGCCCCANAAATACTATNTAAAACCGGGTGATCAAAACAAAACTTATGTCATGA
ATTTTAANAGTTTTTAGCAAAAAANATATTTTTGAACTGGCNCAGCAAAAGCAAAGTTGA
ACATCATGATACACAAGACTAATCATGCAAACAACTGTAAGNGGGATGTGTTACTTAAAC
ACTAAGCTCATGACTGACATTCTCAATATATCCACTGATTTTTTTAAAC
Sequence 5003
CCCTTAGCGTGGTCGCGGCCGAGGTACTTCCCATGTGCCAGAGGAACTTAAGCAGCCGTT
ACACAGAAAGTCCAAATCGCAGGCATATGCTATGATGCTGTCACTGTCTGACAAGGAGTC
CCTCCATTCTACATCCCACAGTTCTTCCAACGTGNGGCACAGTATGGCCAGGGCTGNGGC
GGAATCCAGTGCTATCCANTCCATAAGCCACGTNTGACGTTATCAAGGTTGACCAAGAGT
GGGACCAAGTCCAACAGTAAGCATGGCTCTTTCATATAGGACTATTTACANGACTGCTGA
GCAGAATGCCTTATAAACCTGCAGGGTCACTCATCTAAAGTCTAGCGACCTTAAACTGAA
TGATTTAAAAAAGAAANGAAAGGAAAAAAGAAACCTATTTATTCTCCGATATTTTNGTTT
TGCACAANCNAAAGGCANATGGCTGGACTTNTGGGAANGAATCAANCCAATGGCCAACTT
TAAANNGANTNCANNTGAAAAACCAAAA
Sequence 5004
CCCTTAGCGTGGTCGCGGCCGAGGTACATTCTGTTCAGGTGATAACTGAGCCTCAATCAA
GCAGAAACTTTTTGCTTGAAATTAAAAAAAAAATTTCTATTAGTGAAATTTCTTTTTTTT
TTTTTTGGGAAGCACCCTGTTATCTAAAGAATCTTTGTAAGATTTTTGTAAAATTTTTGT
TTTNACAAGATTTATTTTGAAAATTGGNTTTTTGCAAGATTGGTATNATTTCTGGATTGA
ATGGATTTTNTAATTGGGAATNACCATAAAAGAATTCCTTATNNCCAAAAAAAAAANNAA
AAAAAAAAAAAA
Sequence 5005
ACGCGGGGGGAGCCAGAGAGACGCAGCTAGGCCTCCACGGCTGTGGAGAGATCCTGCCAC
GGGCCTTGTTCACCATGTCGGTGCTGGATGCGCTTTGGGAGGATCGGGATGTCCGTTTCG
ACCTGTCCGCGCAGCAAATGAAAACAAGACCTGGAGAAGTCCTTATTGATTGTTTAGATT
CCATTGAAGACACCAAAGGAAATAATGGAGATAGAGGTAGACTCTTGGTAACAAATTTAA
GAATTCTCTGGCACTCTTTGGCATTATCAAGAGTCAATGTTTCTGTCGGTTACAATTGCA
TATTGAATATTACAACAAGGACTGCTAACTCTAAATTACGAGGCCAAACTGAAGCTCTCT
ATATACTAACAAAATG
Sequence 5006

TABLE 1A
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CCCTTAGCGTGGTCGCGGCCGAGGTACAGGACGTCTCCCCATTACAACTACCCAATCCGA
AGTGTCAACTGTGTCAGGACTAAGAAACCCTGGTTTTGAGTAGAAAAGGGCCTGGAAAGA
GGGGAGCCAACAAATCTGTCTGCTTCCTCACATTAGTCATTGGCAAATAAGCATTCTGTC
TCTTTGGCTGCTGCCTCAGCACAGAGAGCCAGAACTCTATCGGGCACCAGGATAACATCT
CTCAGTGAACAGAGTTGACAAGGCCTATGGGAAATGCCTGATGGGATTATCTTCAGCTTG
TTGAGCTTCTAAGTTTCTTTCCCTTCATTCTACCCTGCAAGCCAAGTTCTGTAAAAGAAA
TGCCTGAGTTCTAGCTCAGGTTTTCTTCTCTGAATTTAGATCTCCAGACCCTTCCTGGCC
ACAATTCAAATTAAGGCAACAAACATTATACCTTCCATGAAGCACACACAGACTTTTGAA
AGCAAGGGACAATGACTGCTTGAAATTTGAGGGCCTTTGAGGAATGAAAGCCTTTGAAGG
GAAAANAAATACTTTTGTTTCCAGCCCCCCTTTCCCACACTTNTTTATGTGTTAAANCAC
TGGGCTTTNCTNGAANCCTTGGGAAGCCCNCGGGTGGACTGGTNTTTACATTGTTGTTTT
NTANAAAAAACCTGATTTTAAAAAGTTTCTGGATCGGTTCCAAGNANAATGNATTTAAAA
TNTTCCATTTTCCGNAAAAAAAAAAAAAAAAAAAAA
Sequence 5007
GGAANTGGAAANATGGTNTAAATTGGATCCCTTGGTGANNCAACCCAGGAGGCCTATCTG
CAACATGTAGGGTGTGGGGCGACAGTATTGTGGGGCTTCCATTCATCTTANTACCTCGGC
CCGCNACCACGCTAAGGG
Sequence 5008
CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGAGGCTAAAACAGGAGAATCGCCTGAACC
TAGGAGGCGGAGATTGCAGTGAGCCGAGATTGCACCACTGCATTCCAGCCTGGGCAACAG
AGGGAGACGCCCTCTTAAAACAAACAAACAAACAAGCAAAAGCCCAGATCACTGGGCCCC
ATCCTCAGAGTTTGTAATTCAGTAGATTTGGAGGGTAGTCCAAAATTTCTGTTTCTAAAA
ATTCTCAGATGATGCTGATGCTGCTTGTTCAGGGACCACACTTTGAGAATCACTGGTGTA
GGATACTGTTAAGTGAGATGAGTGAATGTAAAAATATATTTAATCTGGTCCAATTTTTGT
AAAATAAACAACTCCCCAAATGCTATACATATGTGTATTCATATGAAAAAATATGACAAA
TGCTACACAGTAGGACATTAACATGAGCCCGAGTACCTGC
Sequence 5009
ATAGGGAGTCGACCCCGCGTCCGATTCTATTCCCCAAATTAACTGAAAACATGAACGCTA
GATGGGAATGATGGGAGAAATAATATATTTATTTCGGTGAAATTTTGCATGTGTGAAAGT
TTTGTTAACTAGGACCTTCGAGATCCTAGACTGCTTTTGTCTTACTGTGGGAAACAGAGT
CTCTTGTAGACACTAGCATTTTAAGGTGACAAAAGTCAAAGGTTGTTTCCTTTGGTTTAA
GCGGCAGCCAAGCATTCTTCAATTGGGGGCTTAGGGTGTGGCTGTTGACAACACATTTTA
TTATGGGGTCTTTAATGATAAAATATTAATCTAAAAATAAGCCAAAAATTACAGGTTTAT
TTTTCACTAAACAGACAATTGAAATACATGGTACAAAAATAAGTGGTAAGATTATTGTAA
AATGAAAAATGGACAGAATAAATATTCAATTTAATTTTCCATCTATGAGAATTTCACAAT
AAAATCATAAGTTTACTTTGTATTATANNANAAANNNNNNNNNNA
Sequence 5010
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTNNTTTTTTTTTTTTTTTTTTTTTTTTCC
GGANATAGAGCCTNACTCTGTCTCCCAGGCTGGAGTGCAGNGATGTGATCTTGGCTTACA
GCAATCTCTCCCTTCTAGGCTCAAGCGATTCTCCCACCTCAGCATCCCAAGTAGCTGGGA
CTACAAGTGTGCCAACTTAGAATTATATTAGCCACACCCAGCTAATTTTTGTATTTTTTT
GNAGAGGCAGGGTCTCCCCATGTTGCCCAAGGTTGGGTCTTGAACTCCTGGGCTTCAGNG
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ATAACTATTTTTAATGAAAGTAGACTTTAAAAAAGAAAAAGTNTTTATTAGAGGTAAGAA
GACCCCCTCNCCAGAAAAGAAAAATTTTACTTAGGGGCCCAGGCCCCAATGGGCTCGGGC
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GTTCAAGACCAANCCTGGACCAACATGGNANAAGCCCNGGNCTNTTCTTAAAAATTCCAA
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NGGGGGAGGANAATTTCTTTGGNCCCCAGNAAGNGANGGTTGCGGGNGAACNTAAAANTG
GGCCAATTGGANTTCCACCNGGGGGAAAAANAANNAAAATTTTTTTTAAAA
Sequence 5011

TABLE 1A
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CCCTTAGCGTGGTCGCGGCCGAGGTACAATTAGGTTCTGACTTAAAGATTAGAGATTGAA
ACAAACAGAAAAAAATGCAACCGCTTGCATTTCTTGCTAAAAGTAAACCAAAAGCAGTTT
AATTTGAAGGATGTGCTATGGTAGCCGTGATTAGGTTTTAGGTCAAATAACCAATGGGCC
CAACTCAATGTGAGACAGGGGGAGCCTCATTAAGAAGAGTGGCTGAGAAGGAGGCAGCAT
GACCAGTACCTGCCCGGGCGGCCGNTTCGAAAGGG
Sequence 5012
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTAATTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTGGCAAANNNANTTTTTTNTTTNN
ANTTNGGNNATTGGTAAAATCCTAGTNACACAATTGNANATTTTTTTNNCNNNAGAATTT
TTTNTTTAANGNAAANAACNTNTGAAAAAATANTNNANTTNTGGAAATANCNNANANATT
TTGTTTTTTAAA
Sequence 5013
CGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTN
TTTTTTTTTTTNNTNANNAAAAAAAAAAANNTNNTNNATAAANANAAGCCTNNNNCNNAC
ANNACTAGGAAGNNNNTANATNNANNNNGNGGNTNTGNAAAAAAAAAAAANTTTANTNNN
ANCATNNAAAGTGGAANGGNNNNTATCCTGAANATNNNGANNGNNANTGNNNNANTGNAN
ANTCTGNNAAGAAATATNNTTTACCCTTNCTTNATGGGGAGGCTTAANNATGNNCANNNC
TTNCATGCCCTTNTATCCCANATTACCTAAATGC
Sequence 5014
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTCAGGTCTGAAGGCAACCACACTGATTATG
GAGGCTCCACTTTTTCACTACCCAACTCAAAACTGTCATTGTCAGTCTTTTTTTGAATTC
TTTTTAAAGACAAAACTAAACCCAGAAGATCGAACTGGAAATAAAAGCAGACAAAGAGAC
CACCAAATATACTGTTTAAAAAAACAACAACAACACTGCTCATGGTTTACAGTATGTGGA
CAGTTCCTTTGTTCATGATAGAGTAAACAAAAGTCCCTTTTGTGTGCTTGAGCAAATGAA
AACCAAGAGGAGAAAAACACACACCACCTCCCATCCCCTAAAAACATAATTAACAAAATA
AAAAATAAAATAAAAAATCCTTTGCCCCAGTCAACGTTTTTGCAGCATCCATTGTGGTCG
GCCTTGTACCTCGGCCGCGACCACGCTAAGGG
Sequence 5015
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGAGTTTGCTATTCCTGTTTTATAAC
CTGTTCTGCAGAAACCTATTTTTATTAAAGATTTTTATAAGAAAGGGAAAAAAAAAAAAA
AAAAAAAAAGTACCTCGGCCGCGACCACGCTAAGGG
Sequence 5016
CCCTTAGCGTGGTCGCGGCCGAGGTACATCGTATAGCAGACCGCGGGCACTGCCGCCGCT
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CCTGCCCCTCCTAAAGCTGAAGCCAAAGCGAAGGCTTTAAAGGCCAAGAAGGCAAGTGTT
GAAAGGTGTCCACAGCCACAAAAAGAAGAAGATCCGCACGTCACCCACCTTCCGGCGGCC
GAAGACACTGCGACTCCGGAGACAGCCCAAATATCCTCGGAAGAGCGCTCCCAGNAAGAA
ACAAGCTTGACCACTATGCTATCATCAAGTTTCCGCTGACCACTTGAGTCTGCCNTGAAA
GAAAGAAT
Sequence 5017
CCCTTAGCGTGGTCGCGGCCGAGGTACACTGGCAGCCTCTACTGGCCATTGCAAAGAGCA
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TCTTCTTTGGTCCTCACCCTCTTTGTTGTCCTCTTTTGAAGACTAGTTATTCTGTTGGAT
GTCTTGATTTATAATTAATAAAGAGCTACTAGTCCAGTATTTTCATTAATAAATTAATAT
CATAAGTGAATGGAATTCTTCAGGACCTTAGAAGAAGTTATGAATATAACCTTTCCTTGA
GAAGTAATTTTCATGTAAGAGGGAAGATAGATTTATCTTTATGTAGGTTTTAAAATACTT
TCTCAGTTGCAAGCCTTAATGTATGATATAGAGATTAGTCTTTTACTTATGACTGACAAA

TABLE 1A
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AAACCCTGATGCCTTGAAAGAAAGCCTTGGCTCAGTGATAGACTTAATTACACACACACA
CACGTACCTGCCCGGGCGGCCGCTCGAAAGGGC
Sequence 5018
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TAAGTCTATATTTTAAAAACTCTGACAATAGCAAGATATTTAATGAACTCTACTTCATAT
CTAGTTCATTTTTTTTTTCTGGTTTGAAAAAAANATCAGCTTTCCCTGAATAAACAAAAA
TGAATGTAAATAAACATGAAAATNCAAAACCNTAATTTCCAAAAACGAAATGAATGGGCC
AACAGTAAAATGCNCAATGAGCCACAACTGCCCTGGTNTTTAAAAAAATAAAGGTCAACT
GNGGGTCATAAANAAGTNTCAACTTTTAAAAATATATGTATGTATNGCTACTCATAGCAT
ACTCTGACCTAAAAAAGGCANATNCTGATTTTATAGCCAGGGACAAAAAATTTGAACGGA
ATTGCAAAACCCCCTGCTTGNGATCACTATATGAAATGGAAGAATAATTGAAAT
Sequence 5019
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGAGACGGAATTTCGCT
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CCTGCCTCAGCTTCCCAAGTAGCTGAGACCACAGGCATGCACCACCACACCTGACTAATT
TTGTATTTTTAGTAGAGACGGGATTTCTCCATGTTGGTCAGGCCGGTCTCGAACTCCTGA
CCTCAGATGATCCTCCCGCCTTGGCATCCCAAAGTGCTGGGACTACAGGTGTGAGCCAAG
ATCACAAAAGAGAGAAAAGAAAAAAGTCTATCGGGCTAATGGGAAGCTGCCAGGGAAGAC
AGGGTCTTACCACCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGG
Sequence 5020
CCCTTAGCGTGGTCGCGGCCGAGGTACTAGCTGGGTGACCTGGGGTAAGCTACTTAATCT
CTCTGAATTTCATTTTGTCATCAGCAAAATGGGCATAATAATACCTACTTTATAGGTTTG
TTTTATAGATTAAATATGGTAAGCCATGTTAAATATTCACTTTAGTGAATGGCTCATTGT
TAAGTCCTCAAAAGTAGTTGTTAACAATAATAAATGTATACATAAGTTATACATTTCCTT
AAGCAATACAAAATAGGTCACACTGAATGGAAACACCTCAAACCATCTGTGGTTTACCCC
TAGAGAAAATTCTGATTGCCAGACATAATATATAGGGGCAGGTCCTTAACGTGTGGTCTC
CCACTCTCTCTAGGTGGTAGTCTCCTCTAGGGGGTGTGCAAAGTTACCTGGGGC
Sequence 5021
GGTACCACTCTTTGGATGTGATTGGGTTCCTGCTGGTCTGTGTGGCAACTGTGATATTTA
TCGCCACAAAATGTTGNCTGTTTTTGTCTNTGGAACTTTGCTAGAAAACCAAAGAAGGGA
AAAAATGATTAGTTATATCTGAGATTTGAAGCTGGAAAACCTGATAGGNGAGACTACTTC
AGTTNATTCCAGCAAGAAAGATTGTGATGCAAGATTTCTTTCTTCCTGAAAAAAAAAANA
CAAAAATGGAAATANNTTCNTGNCCGGNNNNNATTACCATGGGGNAAGTTCCCCCCCNTN
GGNNGNAATAATGNNTGGTTCTTTCATGCTTTTTTCTGTGCGCTTACCTAAGNGTGAATA
TGTNAAGGGTTTGNTTTGNATACAAATGGGATTATACTAAAATAAGTAATGCCTATTTTT
AAGGATAGGTTAAATTTGTGAA
Sequence 5022
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNANTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAA
ANNNNNGGGGTTTTTTTTNNNAAAAAAAANANTNNNANANNTTTTTTNNAAAAAAAAAAA
ANNATTTTNTTTTNNNNNAAANACANTAANTTTTTTTTTTTCNCCCCCCCCCCCCTCCAAA
ANNANNNNNGGAAANNGGGGNGGNNTTTTGTAAAAAAAAAAAAACTNCCCNCNNANANCC
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CCCCCTANGGGGNNTNTTTNNAACTAANTTTTTTTTTTTTTTTTTTTNNTTGAAAAAAAAA
AANNGGGGGCCNCCCCNAAAAAAAANGNGGGGCTTTTTTTTTTTTTTTAANGAANNCCCNT
NNCNAAAAAAAAAAAAAAAAATNNNNTNGGCCTTCAAAAAAAAAAAAAAANNTTTTTTTT
TNCCCCCCCCCNCCCNGNNAAAAAAAAAAAAAAANCCNCTTTTTTTTTTTTTTTNNAAAAA
AAANAAANTNNTTTTTTTTTTNATAAAAAANAAAAGNGGANGGGGGGNAANCCCCCCCCC
ACCNTTTTTTTTTTTTTTTTGNNGGGNNANNGNAANTTTTTTTTTT
Sequence 5023
CCCTTAGCGTGGTCGCGGCCCGAGGTACAGACCAACCATGGAGAAGATGAAGCAGGTGGT

TABLE 1A
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GACACAGACTCGGTGGATGAGGCCAGATGCAAAGAGAGCCAACAGGAGGCACAGGAGAAC
TAGGGAGGCAAGAAGAACAAGGAGGGCAACGGTCAGAATGGAAATACTAGGCATCTGCAC
ATGGAGTCCAGGAGAAATCCGGGGCTCTCTGAATCCTGGGGAACCTGCTTAGAAGGGTAA
GCGTGACTACAGCAGGAGGATTCTGATTACCTTAATGATACCCAGAACATGGAGGTAGGA
GGTTGAGTGTGGTGGCTTGCACCTTGGAATCCCAACACTTCGGGAGGCTGAGGTGGGCAG
ATCACTTGAGCCCAGGAAGTTTGAGACCAGCCTGAACACAAAGTTGAGACCCTCTTTTTA
AAAAAAAAAAAAAAATTGANTTNAAAAAAAGTACCCTGC

Sequence 5024
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGATCTTGGGGCTGCTGGGACTCGCGT
CGGTTGGCGACTCCCGGACGTAGGTAGTTTGTTGGGCCGGGTTCTGAGGCCTTGCTTCTC
TTTACTTTTCCACTCTAGGCCACGATGCCGCAGTACCTATTAGAAAAATGCTACAAACTT
TCCATTAAAAATATATATTTTCTCCTTCATTTGTCATAATAAACAGAATATAATTTTCTT
TCTAAAATTAAGTCATACCGTTTCTTTATAGGATGATAATATGTACCTCGGCCGCGACCA
CGCTAAGGGCGAATTCCAGCA

Sequence 5025
CCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTC
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAANATGNCNTTTTTTTNTTTTTTCTT
TTTTTTTTTTTTNATNATTTTNTTCTTTTTTTTTTTTNTTTNNANNCNNNNNGAGGGNNGN
GGAAAAACCCNAAAAAAAAANANAANAAAAANTCTTTTTTTTTNATAAACCCCNNANNAA
NAANATGTTTTTNAANANTNTNTTTTTTTTTTTTAAAAAAAAAACCAAAAATTCTTTTTT
TTTTTATNNNAACCCCCCCCCCTTGCANTTANANTNTATNAAAAAATTTTTTTAAAANTT
NTTTTTTTTTTAATNTTCNNNNGGNCCCANNNCTTNTATGANNNANNTTTCCNNCNTNNN
GGGGNNGGATNTTTNTANAAAAAATATNCNAAAAAAAANNGTGTGNNAANAATATNNNAA
ATTGNTTTNTCTNTTGGGAAAAAAAATT

Sequence 5026
NNAGCCTGCTCGNCGGCCGCCAGGTGTGATGGATTATCTGCAGAATTCGCCCTTTCGAGG
CGGCCGCCCGGGCAGGTCTCTCTTCGTGTGCAAGAGATAACTATGAAAGCCAAATTCAAA
TACTGGCCAACATTTCCTAAAGGGGCTCAATATCTATCATTCGTCTTCTTTTCCAAACTA
CACATCACTGTATGACTCAACCAGTAGCAGTTATATTGCCCCTTGGTTTTTATTCAGTTT
AACTACTGTTTCCAAGATAAATGAGCTAAAAAAAAAAAAAAAAAAAAA

Sequence 5027
CCCTTAGCGTGGTCGCGGCCGAGGTACATCCCTACTCAAAATTATATCACAAATTCAGCT
GGGAGCTTCTTTTACCCTGTGACCCCTCCCTGAGCTCATTGGCTAACTTTCTTGAGGGCT
CCTGTGAGATATAGTCAGGAATGGCTTTCCTTGGTTCATACTAGAGACTCAGAATACCTG
CAAGGCACTTCCTGCGACTGCTTCTACTTTTATTTTCACGAGGCTCCCTAAATTTGTTCC
AGCTCTTGGTAGCATTAAGGCCTTCTCCTGTGGCCTGGATTTTCAGATTCCTTAGTGGGG
ATATGTGCTCAAAGGTAGAATCTCCCCGTCTCATACTCTGGGAACTTTTATTTTTTTTCC
TATCTCATGGAGTAGGCTGCAGCCTATCACTTCCTTCAAAAGGTCTGTGGATTTTTCCAG
TTTTCCCAGTGGGAGAGGCATGCTAACAC

Sequence 5028
CCCTTAGCGTGGTCGCGGCCGAGGTACTATACTCAGTATTTAAATATGTCCCAGTATAGA
AGCATAACTTCAATTAATTTGCTGACACTAACTTCTTAAAAACTTACAAATATTCAAAAC
AAAGGGAAAAAATTTTAGATAGCCAAGATTTAAAAAGCCATCGCCTTGAACATGGAGCCT
CCTNNCAAAAGAGGAGATATACTTGTATACTCATTATATTTTATTTAGTAGCCATGTAAG
GAAACACACACTCACTTATCCCAAATATTTTTCTACTTTTAATGGACATCCACTTGAAAA
CAAATCTTAATTTTAATGTCAATTTAGTTTCAAATACTTTTCCAGCTGCCTAGTATATTC
CAATTAAATGCTATTATTATATCTGTTTTAAAACTGGGAATTAAAGGTTAGAAATACTTT
GCAGAGTGGTATCCAAATCATTTGAGAGGCCAACATTAAAATTTGACTTTAATGTCTTAT
TAATATATCAACAGGCAATTGTTCCGACTTTTGAGGAACACTAACACTGCTTCCAAAAGC
ACCCCTGCTTTTCTTTCTTCATCCCACTAATATTGNCTTAGATGTTGTCAACCAAGAAAC
ATTTATGGTAANGAGAGCTTGCTGCATAAAACTGNATTGGATAATATATTCTTATGTCAG

TABLE 1A

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AAAATACTCAATTTCTTCTACTTCACTTATTTAAAACCC
Sequence 5029
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTAAGAGAGAGGTTCCACTGCTCTTAAGAAA
TTGAATCTTTTCAGCAGACTCCTCTTCTATTTCCATAACAGGCTGAGAAGTCTTCTTTGT
TTTCAAATAGCTCACATTTGTTCCAAGAAGTCCATCCCCGCGTACCTCGGCCGCGACCAC
GCTAAGGG
Sequence 5030
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGCATGATCTCAGCTCACTGCAACCTCTGC
CTCCCGGGTTCAATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGCNCC
ACCATGCCCAGCTAATTTTTTTTGTATTTTCAGTAAANATGGGGTTTNTNTATNTTGGCCA
GGCTGGTCTCAAACTCCTGACCTTGTGATCCTCCTGCCTCGGCCTNTCAAAGTGCTGGGA
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Sequence 5035
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Sequence 5038
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Sequence 5046
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Sequence 5051
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Sequence 5052
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Sequence 5059
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Sequence 5064
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Sequence 5067
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CAATCAAAATAAAAAGATCCCAAAGCCACAGATAAGGATAGCCTACAGTGGTCTTTATGT
TCCTTTGTATAATTCCTTTTTTTTTCANAGTCCAGTCTTGGATGTAATCCAATTGCGATAA
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ACTATTCCAACAAGATG
Sequence 5068
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TCCCTANTTTGNACCTGCCCCGGGGGG
Sequence 5069
CCCTTAGCGTGGTCGCGGCCGAGGTACTCACTGACCTACCTCATTTTCCTCTAGATTCCA
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TTTCCCATCAACTTCTAGTTATACTGAAAACCATGGAACTGTATACAGTTGTGCATCGCC
ACCAAGCCAAAACTAAGATCTTCACGTTACCTTCTGAGAAGTCAGAAGAGGAGTAACAGC
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GCCTTTTTCCATCTATAAAACTAGCCTCTTCTATTTTATAGAAGGAAGTGTTGCCTGATT
CTTGAATGGCAAATGAAAGTCAATTAAGATCTTTAAACTAAATTTGTAGTAATTTTGTCT
TTGACAGCCACAACCTACAATTCTTGCCTTAATCTCTTTTATCTCCTCAAAGACAAACTA
ATTCTTCCAAATTATAAAGACCAAACCTAT
Sequence 5070
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CCAGCTCCAGACCTGNATCTCTTTCCAGGCTGACAGTGGTGGAAAGTGANGTGGCAAGTG
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Sequence 5071
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TTGAACCCATTTCTGCAGATGTCAAGTTGTGTTTTTTTGTCTTTCCATCATGCTACTTGA
CACCCAAACCAAATGAAACTGGCANCCCGGATTCTTTCAGAGAGATGTTGTAAAAGAGTT
CCCCCAACAACCTCACCTGTTAAACCCCCA
Sequence 5072
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Sequence 5073
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AANGGGGGNCCNGGGNAAAATTTTTTTNAAAAAAAAAAC
Sequence 5074
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AGCTNCAAAATGAACTATAAAGAAGGGCTAGGCAGGCATGGTGGCTCACACCTATCATCC
CANCACTTTGAGAGGCCAAGGCAAAAGGATCACTTGACGCCAGGAGTTCACAACCAGCCT
GGGCAATATGGCTGTCTCTACAAACAATATAAAA
Sequence 5075
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CTTGTGTCCCTTCTCCCCTGATTCTTCCCTCCGGGTAGGAGGGAAGAATCCACCTGAGCA
GTGGCCTGCCAGCACTTGAGAGGCTCCGCAAGCACAAGTGTGTTTATGGGAGTTGTGCAC
ATGCTCAGTTGAGGCATTCTTCCCTTACCAGTCGAGTGTTTCTAGAGGAAGGTCATAGAC
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Sequence 5076

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AACTGACCAAACTGTTCTTATTACTTATAGGTTTCAGGAGATGTGTTACAAGGCTTATCT
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Sequence 5077
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Sequence 5078
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CTNTTTGNNGNNNAAAAAAAAAAAAAAAAAA
Sequence 5079
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ACTTGGAAGCTACTTTATAGCCACTGGGCTGGATTTCATATACAGAGTTCTTGCCCTTGG
GAGTTTTACAACTGCTTAACACTTTGTCTATGCTAGAATACAAAAAAAAAAAAAAAAAAA
AAAANGTGCCTCGGCCGCGACCACGCTAAGGG
Sequence 5080
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CCTTTCTTCCTGGCTTCC
Sequence 5081
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGTCTGCCAGACTTATAGGCATTCTTTCC

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CTGAACAAAATCTCATTGGGCAAATACCCAGTGTGGTTTGTTTTGTGGGGGTGCACCTGA
CTTGGAGAAAGACCATGGGCAAGACCTGGTCCCACCTCAGATGAGTTTCCTGACAAAATT
TCTTCAGCAGCTGCTTGAGTATCTGGTTCATGTGCTCCATCTTTACTGAGCACTGAGGCT
GGTAGACTGGATGCAACTTCCATTTTATTTTTAACAGTCNAGTTAAGTCCTGAACGATTT
CAGCCACAAATGCCAGTCCATTATCTTGAACCCAAAGTTAGGGGCAGTCCAAATCTGGGA
ATAATGTCTCTTAACAATACCTTCAT

Sequence 5082

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AATACCATCNTNAAAAAGAGAAACTTGNGCTAAAAAACAACCTGGAATTCATCATTGGCN
ATNTTACATAACAANTCAAAGGCCCTNACCATACTAATGGATTTCCACTTTGNCTATTAT
TGGGCNACCTTCCCATGGCANCAAAAAAAAAA

Sequence 5083

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TGGGGTTTCACCAGGCTGGTTTTGAACTCCTGACCTCAAGTGATCCACCTACCTGGGCCT
CCCAAAGTGCTAGGATTACAGGTGTGAGCCACTGCTCCCGGCCTCCCCTTTCCTTTTACT
GNTTTAAGCCCTCATCGGGTCACTTGTCTNCCCNCACAGGTNACCGNGCCAGCCTNTGTG
GNCANATTTCTTTGTGTGAACCTGTTGAAAGAGAATTCCCAGTANAAATTTGGCCTCCTG
CACTCCCATNCCTAGGGTGTCTNAAGGGCATGGGGTGAATTTCAGGAAAAAGT

Sequence 5084

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TTGAAAACTACTGGGTTTGAGTAACTTCAGGAATAGTTCTTCCATAAAAGCATAATAATT
CAGAGATTACTAATGTAATCCTTTGGCATTCAAAAACTAAGGGAGCCAAAATATTAATGG
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CGAA

Sequence 5085

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Sequence 5086

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Sequence 5087

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AATATTTATAGAATTTTTTTATCTATAAACAGCTGCAAGGAAATATTTTTTAAATTAAAA
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GATAAGATCAAAAATAAAGAATTTACAAAAAAAGAACAAAGTACCTCGGCCGCGACCACG
CTAAGGG
Sequence 5088
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GGGGGGNNTACCCCCCNNGNGGGGGGGGGNTNANATTTNTTAACANGCNNNCCGCNCCNG
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Sequence 5089
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TGCAACTCTCTGAGCTCTGACTTCTGTGTGTTTGCACACACTGAATATTCTTGCTAACTT
GTGCTGCTTCCTAATTCTTGTGGCAAATTCCAGTTCATTCAAAATTTAGCTCCAGCATTG
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Sequence 5090
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GGGAGGNCTCTTNNNTCANNAAANANAAAANNNNCCCNCCCCCCCCCCCCCCNNAANNGN
NNNNNTAAAAANAAANCCCCCGNGCACANCNNNAAAAANAAAAAGGNGGGGGGGGGGG
Sequence 5091
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Sequence 5092
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAAGAATGTTTTAAATTTTTGTTATTG
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GTACCTCGGCCGCGACCACGCTAAGGG
Sequence 5093
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ATTCCTGTTTTGTCAAAGAATTATATTTTTCAAAATATGTTTATTTGTTTGATGGGTCCC
AGGAAACACT
Sequence 5094
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ACGTTCTNGACACACAAAAAATACAGAATTTGAAAAGAAAAAGCAAGCATAAGAACCAAA

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CTGAGCTTATGGCAGAGATGTTGGAAATATCAGACCTTGAATTTTTAAGACTATGATTAA
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Sequence 5095

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ACGCTAAGGG

Sequence 5096

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CTATAAACTCCCCCTCTAAACTTGGCCTTGGTGTTCTCACTTTTTCTGTGATAGTATATG
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GTTGCTTTTATAAAATATAAAATTTATTATTTTTCTTGG

Sequence 5097

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NNNCCTCCCAAAACNNNNGCNGGGACTGAAANGNNNATTAAAACCCCCGCNGGGGGGGGN
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TACAAGCTGTCAAGGAAAACTGGATAATTGCAAAAAAGCCATAAAGGTAAAGGA

Sequence 5098

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Sequence 5099

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Sequence 5100

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CTGTACCTCGGCCGCGACCACGCTAAGGGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnNnnnnnnnnnnnnnnnnnnnnnn

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Sequence 5101
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CTGAAAATCAGCAATTTCCTGACAACGAAAGTGAAGAGTATCACAGAATTTGCGAATTAG
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Sequence 5102
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AAAAAAAANANNGAATTGNGGGGNCCCCCCCNGNNANAAAAANANAAAAAAANCNNNCCN
NNCTTTGNTNGANNANNAAAAAAAAACACCCNNCCCNNNCCCGNTNGNNNNNANGAANAA
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Sequence 5103
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ANANATTTTTTTTTT
Sequence 5104
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Sequence 5105
CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTTTTTTTTTTTTTTTTTTTNCTTTAATCAT
TTATTTGGGGGTGAGATTTTGGTTGTTGCCAAATTTTCACTATGGACAATTATGCAAAAT
TCCTCATACGTATATATTTTTTTGTCCAGGGTGTTAAGTCTTCTGTGGCATAGGTTTCTG
GAAGTAAAATAATTGTGTAAAACAATGTGTTCTTAAAAAAAATAATAGATATAGATACTC
TGCCTTCAAAAATGTATTGACTGTATAACTCATGGTATATATAAAAAGGCTTCAAAATCT
TCACTCTGATTCTTCCAAAGTCATTAAGATTTTTAATATATCAAGTGAATGTGTTAAAAG
CTTTGTTAAATACAGCCAGACATGGTGGTGTGCACCTGTAGTCCCAGCTACTTGGGAGGC
TTAGGCGAGAGAATCACTTGAGGCTGGGAAACTGAGTNTGCAATGANCCCGATCACATCA
CTGCATTCCAAGTCAAAAAAAGCAAACNAACAAAAACAAAACAAAAAACCTACTGCNCTC
ATTTTTTTTC
Sequence 5106
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTA

TABLE 1A
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AAATTNNNTTTTTTTTTTTTTTNNNNNNNNAAAAAAAAAAAAANTTTTTTTTTGGNCNNNAA
NTTTTTAAAAAAAAAATTNAAAAAANTTTTTTNTAAAACCCCNTTTNNAAANAANAAATT
TTTTTTTTAACCCCNAAAAAAAAAAAAAAATTTTAAATTTTTTAAAAAAAAAAA
Sequence 5107
AGCATCAAGAAGCGTCGGGGAGCGCAGGCCCAGCAGCCATGGCGGTGGAAGGAGGAATGA
AGTGTGTCAAGTTTTTGCTCTACGTTCTCCTACTGGCCTTTTGCGCCTGCNCAGNGGGAT
TGATTGCCATTGGCGTAACAGTTCAGGTTGTCTTGAAGCAGGCCATTACCCACGAGACTA
CTGC
Sequence 5108
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTNAAAN
ANNANCCCNAAANNNNNNNNGNGNNCNCCCCCCCCCCNTTTTATNAANNNNNNANCNNNN
NCCNNAAAAAAAAAAATTTTTTTTTTATNANNANAAAAAAAAAACNNTCTCAAANAANAA
NCTTNTNNNTNNCCCCCCCNNAAA
Sequence 5109
CTCAAGCTATCAATGGAGTCGGATCTTGTAAGGCACCTCGCCCGGCGCCTCGGCCTCGGG
GAGCCGAGTGTACTGAGGAAAGCAGAGGAGTACCTGCGGCTGTCTAAAGTGAAGTGTGTC
AGTCTGTCTGCACACACCTCAGAAACCAGCAATGCTGTCATATGCCTGGACCTTGCAGCG
TCCTGTAGGAAGTGCCCCTTGGATAGAGCGTATCTAATTAAGCTCTCTGGTTTGAACAAG
AAGATGTATCAGAGCTGTCTTAAATCTTTTGAGTGTTTGCTGGGGTTAAACTCAAATATT
GGATTAAGAGACCTGGCTGTGCAGTTCAGCTGTACAGAAGCCGTGAACTTGGCTGCGGGG
ATACTGCAAAGCTATGAGTCTAGTCTTCCGGAAGCACAGCGAGCAGATCTTGACTTGTCC
AGGCCACTTTTCACCACGGCGGCTCTACTCTCAGCATGCAAAATTCTAAAGATAAAGGTG
GATAAAACCAAAATGATAACTACATCCGGTGTTGAAAAAAACAATATTTTGATCGACTGT
GTACACAGCTAGAAAAGGATCGGACAGCAAATTAACAGAGACTCTGCAGATTTAGCTAGT
NCAGCCCTGAAA
Sequence 5110
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGCTCTTTACTACTCTAGTAACACTAGATAA
TAAGCACTTAAATGCTGAGTGTTTGTCAGTTTTAAAATTAGAGAAAGAGACAAATTGTTT
TCTGATCTACTTGCTTAATAAATTATTTTTTGCCAACTAATTTTTAGGTTTACTTGGTAA
ATTTAAAGGTAGTTTAAAATGTATATTTAAATAACTTTTCTCTATAATTGAAGAAAATAA
TTTATCTTGAGAGAATTTTACTTTAAACAGTTGCTTTAGAGTCTATCTTGTAAAGTATTC
TATTTTCAAATAAAGCCGGGTGCAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGC
CGAGGCAGGCAGATTACCTGAGGTCGGGAGTTTGAGACCAGACTGACCAACAAGGAGAAA
CCCCATCTCTACTAAAAATACAAAATTAGCTGGGTATGGTGGCGCATGCTACCAGCTACT
CGGGANGCTGAGGCAGGAGAATCGCTTGGACCCAGGANGTNGAAAGTTGCGGT
Sequence 5111
CTGCAGAATTCGCCCTTCGNGCGGCCGCCCGGGCAGGTACTTTNTTACATAATGTCTCCA
GAGAGGGTTTCCTTNTGTCTAGCANACAAAGGTAATGGTAGCTGATCACCTTAACAAAAT
CAGGAGCTGTTTGAAGTTGANACTTGGTTGTAGCTCTGGGTAAAGCTCTAGCTACTTATG
TCCAAGGGTATATAGCCCTCTAGGATTTTTAACTGAGAGCTTGGTATTCATTGGGGCTTC
TCCTTCTGGCAAGTTCATAACTCTAATCTGTATCTTGTGAAGACTGCCAAAGAGTCTGTT
CTGCTTTTCAAAGGCTTTCCAATGAGGNTTTTNACCTCTCATTCTGCAGAGCCCCNGGGA
ATTGGCAAATATCCCAACAGGATAACTGGCTGGTTGCATGGANGTTCCCCTGGTTTTCCA
CAAAAGCCTCTGCTGATTTCTTGTCCCCAGTTANGGGCTTTCCCGNCNACCATAAANGTN
TCTGGNTTCTCAAATCCCCTGCCC
Sequence 5112
CCCTTAGCGTGGTCGCGGCCGAGGTACCACTTCACTCCAGCCTGGCGACAGAGTGGACTC
CGTCTCAAAAAATAAAATAAAATAAAATAAAATAAAATAAAATAAAATAAAATAAAGCAA
AAATATAAAATGTTAAAAAAAAACAAAAAAAGGGAAAAAGGAAGCTGATTGCCTTGGTGA
GTCAACACTGGGTATTTTCTGACCACTATTTGAAACAAAAAAGGAAACCACTGATTTTCT

TABLE 1A

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ATGCCAAAGATCTTGTTCCTGGGAAGGCACTCTGCGGAGACACCAGGAGAACTTTTATCA
ATCCTTCATTGATTTGAAGTAAAAGTGCTAAANCATTGGTTGNGGGTGGCANCCCATTAN
CANATCNCAAANTCCCTNGAGTGGGTTACCTAACCAGNNGGAACCCAGGACCGNCTTCTT
GGNAACTNGGGGTAANCCNTACTTTTTNGAACCTANNGGATTCAGTTTCCTTTTAAGGGN
TTTCCACCAAAAGNTAAACCCTGGTTCATTTTNAAATTTAAAATNCTTTGCCAGTCCCCT
TTCGANTTGGGGAGAAATTTTCCCNCGNGCATTCCCCAGGNGGGGNGGNTTTGAAAAAAN
TTTTTTTTAANTNNNACCTTNCCCGGGGGGGGCCNTT

Sequence 5113

ACTTTTAGTAGAGACAGGGTTTCACCATGTTAGGCAGGATGGTCTCGATCTCCTGACCTT
GTGATCCACCTGCCTTGGTCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCACAGCGCCC
GGCCTAGTCAGCCCAGTATCTTATAGCTGTTGACGACATTCTGGGGATATGAATGTAGCT
TACAAACGCTAGTATTTCTACAGAAAGCAGAAATAATTTAACTGTCCGTTTTCACATTTA
TATTTAATAAAAT

Sequence 5114

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTCTTCTGTTGNATTAACTTCTTTCCT
TTGTGGTATCTTGTATCCTGTTTAAAAACTAAATGAAGGGAACCACATTAGGGCCCATGC
CAGCATCCCAGTGAAGTTCGTCCAGCTCCAGTTAGGTGGATTCTGGAGTTCCGGAGAGGG
TTTAAAGTTTGGCTGAAATAGCACCTCAAGTGGGGTTTAAGTTTTATTTTTACCTGCGGG
CATNATGGGCCGAT

Sequence 5115

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATCTTTTATATGCTCATATGCTCCTGTAG
TCGTTAGTTTTAATTCTTAAAAATGTGATAATTGTAATAAACTTTTATTATATCTTATGT
AAAATAATTGTGTGTCTGAGAGAGACTAAAACTCATGCCCTACTTCTCATGATTTCTCTT
TCTCTTTTGTTTCCCTTTCACAGACAGAAGAATTATAGCCTCAGTATTTATGTATATTTT
TGAAAGAGTGAAGTGGGGACTGAGAAGGTATATCTACATGCTATGCCTTTTGATAGCATT
CTGTTTCAAATCTCCTTTTCTCATCATTGGCTGGAACACAGTTGAAAAAATATTAAACTG
ATTTTGTGACGATGAATTTAGGAATTCCAGTTAGCTAAGGATTAGAAAAACTGATTTTCA
GAGGCATACTCTGATCCAGAATGGGGCTTTAATATTGNATTATACTGAAATATAAAGCAG
AGGTCTACTAAAATCTAGAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 5116

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGACTGTAGTGGCTCTCACCAGTAATCC
CAGCACTTGGGGAGACTGAAGCAGGAAGATTGCTTGAGACCAGGAGTTTGAGACCACCCT
GGGCAATATAGCAAGACCCGTCTCTGCAAAAAAATTAAAAACTTAGCCAGGCATAGTGGC
CTGTGCCTGTAGTCCCAGCTACTCAGTAGGCTGTGGTGGGAGGATTGCTTGAGCCTAGGA
GGTCGAGGCTGCAGTGAGCTGTGATCTTGCCACTGCACGCTGAACCTTGGTGACAGAGTG
GGATCCTATCTCAGAATAAATTAGAATAAAATAAAATCCCAAGAGAGACGTTACAAGCAA
AGAAAATCATGGACCAATATTTTTCATGAACATAAATGTAAAATTCTTAGGAAAATTTTA
GTTAATTAGTAATATATTAA

Sequence 5117

ACTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTNTTTATNACTAAAGGTTNATTTACATANNGTTTAAAGCNTAATAAAAAATAAATTAC
AATNCAAAAGNGCTNTTTAGGAAANANACNCTAAACAACAGGCCCATNTTACCCCTTGAC
TNTTTANCCAAAANATAGGCTANAAATTTTGCCGGAAAAACTGNCCANANATTTTAAACT
ACTTCTTNATTATTNTNATGGACCATNNTCCAGNANATTTNTTTGAAAAAATATCCANTT
ATAATNTTTTNAAAGGTTAAAATTNNGAAAAAAAAATTTAAAATNGGATTAAAGGATNTN
TANCCTTNAAATGTAATTTACAGTTTTAAAATTGCNCTTTAAAACTTTTCTTTTTTAAAC
ATTATAAAAGGCAAAATGGNNNAAATTNTTTAATNGAATTTTNAAAACTGAGGGGTNAAT
TTTTTAAAATNATANAAATTTTTTTTAAAAAAAANAATTTTTTTGNAAAAAAATNATTAA
AGGGGNTTTACNATTTTAAAAAANCNANAAAAANTTTTGNTTTNAAAAAAATTCNNAATT
TTGNTAAAAAAAAA

Sequence 5118

TABLE 1A
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CCCTTTCGAGCGGCCGCCCGGGCAGGTACGATCTCAGCTTATGCAACCTCCACCTCCCGG
GTTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGGAATTGGAATTACAGGCACCTGCCACC
ACACCTGGCTAATGTTTTTGTATTTTTAGTAGAGACACGGTTTTTGCCATGTTGGCCAGG
CTGGTCTTGAACTCCTGACCTCAAGTGAGCCACCTGCCTTGACCTCCCAAAGTGTCGGGA
TTACAGGCGTGAGCTCTTGTCATTCGGCGGAAGCAGNGTTTCTCTATTAGGAGACATGAT
GGGTCATTTTTCTCTGTAAAGAGAAAAACATGTAGCCTAGACCAAGCTTTCCTCANCCCT
CAGCTTTAGTGATGTTGGGGGCCAAGACAATTTCTTTTGTTGGGTGGGACAGGGCTGTCT
TTGTTTGCTGCAAGGGGTGGTGAAACAAGCATCCCTGGCTTCTGCCCATAGGTGCCCAAG
TAGCATACCATCCAATTGCAGTAACCCAAAATGTCTTNTAGATATTACCAAGGNGCCCCT
GGGGG

Sequence 5119

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTTGAATATACTGATGAAAATCAACATCAATA
TATTTTGGCTGTGCCTGTGTTAAACCTAAATCTTCAACATAATAAGATATTTGTGAACCA
AGACAGCAACTCTGGAAAGTGGCTTCTAACTCGGCGCATTTTCTTAGTGGATGCAGTAAG
TGGACGAGAAAATGACTTAGGAACTCAGCCAAGAGTAATTCGAGTTGCTACTCAAATATC
ACTGAGTGTCCACCTTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 5120

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAAAAAAAAAANNTTTTTNTN
AAAAAAANNNNNCCNCNNANAAAAAAAAAAAAAANNTNTNNNNAAAAAAAAATTTTTTNC
CCCCNANTTTTTTTTTTNNCNNCCCCCNNNGNNTTTTTTAAAAAAAAAAATTTTTTNNAA
ANNNNNGGNGTTTTCCCCNNTTTTTTTTNTNNACCNGANGAAAAAAAAAANACACNNTNNN
CNNTTTNTTANAAAAAANGGGGGGGNANCCCCCCNNTTTTTTTTTCNGNAAAAAATAANA
ANTNTTTNTCCCCANAAAAAAAAAAAANATCTNTCTTTTTNGAAAAAAAAAANANTTTTTN
CCCCCCCCNNAAANNTTTTNNGNGGNNANAAANNAAANANNNNNTTTTTTAAAAAAAAAT
TTNNATTNGGGCCCCCNTTTTTNAAAAANAAGAAAANNANAAAAAAATTNTTTTTTTNGN
GGGGGGNGGNTTTTTTTTCANAAAAAAAAAAANCCCCCNCNAAAGTNGGTTTNTTTTNCC
CCCCCANNNCAANANAAAAAANATTTTTT

Sequence 5121

NCCCTTTCNAGCGGCCGCCCGGNCAGGTACTGGCCTGCCAAGCCAATCACTGTCACTGTC
AATACCGGGATANACAACTCGNAANCCAAAGGTTTGTCCTGCCACGGNTACTGATATTGC
CCATANCATACTTNATGCCCAGGANCCCAAAAACCTGCCCACCCAACTGGCCTACTGNTG
TCACTACCAGTAACCAGGCAAGCCACCTAAAGGTTNAANAATNANCTNTNTGGACTAGCT
AACACTAATGCCATTATACACTGCCCTAGGTCCCAAGGAAAGGAATATTTGGCCTACCAC
TGCCGTGACTANAACCTGAAAACATGCCTACCTGGCNTCCAAGTCACCANCAA

Sequence 5122

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCTGCCTTCTGGCTGTATGGCTTACATCCTG
GAAATTACCTGATAATAAAGCAAGTAAAGGTGTAAGGTTTCCTAAGGGATTACAACACAG
TGGTTTCCTGGTCTCTCTCCCTGTCATCAATCAGGGTAGTAACTTGACTTAAGAATACCA
CTTTTTAGAAAAATTACGATAGAGATGGGATCTCACTAGGTTGCCCAGGCTGGTGTCGAA
TTCCTGGTCTCAAGCAGTCCTCCCACCTCAGCCTCCCAAGGTGCTGGGATTACAGGTGTG
AGCCACCACACCTGGCCAAGAATACCACTTTTGAAAGTTAATCCTTTTGTGTGATACAGG
ATGAACTTGGGATGTTTGAACCCTGGACATTCCAAATAAAGAATAGGCCCCTGCCTGGCT
CCTGGGGAGAATAACCTNTAAGCCATTAGAATATCTTGCCTGATAAGAGTGTTTTTGTTT
ACCTTGTGGGCCTT

Sequence 5123

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNGAAAA
AAAAAAAAAANAANNNGGGGGGGGNNCNANNNNAAAAAAAAAANATNANTTTTTNNNAAA
AAAANNNNGGNNNNAAAAAAAANNGNNNNNCAAAAAAAANNNAAAAAAANCCCCNCACCT
GGGGGGGGGNNNAAAACCACACCCACCCNTTTTGGGNAAAAAAAAANCCCCCCCCNNCAT

TABLE 1A
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TGATTTAANTNNTCNNCCCCCCCCCAAGGGAAAAACTAANNGGAGGNTTTAAANGGAAGN
ATNTTNANCNCCCNNNNCTTTNNTAACTTGGANGGTTTTTTTTTCCCNGANNNNAAAANA
TNTNCCCCCCCCCCNNTATTTTTTTTAAAACANGGNGGGGGGGNANAAAAANNTNTTTTT
TTNTTCNCCCCCNNAACCNNAAAAAAAAAAAANANCNCCNNNNNNNNCCCNCCCTTNTT
TTTNTNTNNTNNTTATNAAAAAAAANAAAACCCCCAAAAAAAAAANNNCCCCNCCCCCCC
CNTNATNTTTTNGGGGGGGGGGGG
Sequence 5124
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGAGGGGTGAATGGAATGGGCAGTGGTCGCC
AGGATGGCCTCCCACCCAGCTCAGAGACCTGGTGAGGACCACCCAGAAGGGTTGTGCANA
GGGTTAGAGGCCACACAGAGGGGCACTCATGTTTTTGTGGGGGATGCACAGCTCATTAAA
CAGTCACCAGTCATGGGAGGAGGCTGGTCAGGGGCTAGGGGACTTGCTCACAGTCGTGAT
GGCTCTGTGTTATTTGGGGGTGACAGTAATTATGGAGCTGGAGTGCTCCTCGACAAAGAC
AGACAGAGCTCCTCGCAGAGGGATGGTTTCCATGGCAATAGCATCAGCATCTGAATGACT
TCCTGTCACAACAAGTTGGTGATTTAATGAGTTCATTACTGAATTCCAAAGGAAAACCAG
AGAGTGGATGAGCTACTGTTCAGCCCTCAAAGTGGCTAAGTCCATAGTGAGGGAGCCATT
TCTACCGGGTGCAGCATCAGAACCATTAACAGCTCAGGG
Sequence 5125
NCCCTTAGCGTGGTCNCGCCCGAGGTCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTCCCCCCCNNAAAAAAAAAAANANNGNNAAAAAAAAACNGGGGNNNCCCCCCCCCCCNN
GGGGGGGGGGGNNCCCNNCNNNNNNAAAAAAAAAAAAANTTTTTNCCCCCCCCCCCCCCC
CCCCNNTTTTTAAAAAAAAAAAAAAAAANNGGGGGNGNNNAAAAAAAANTNTTTTTTNN
NNNNNAAAAAAAAAAAAAAAAAAAAAAAAAAANCCCCCCCCCCCCCCCCCCNNTTTTTTT
TTTTNNNCCCCCNANNAAAANNNAAAAAAAAAANNNNNNGGNGGGGGGGGNNNNNNAAAA
AAAAAAAAAAAAAA
Sequence 5126
CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTCTCTGTAAAAAGTCCTTGCTGTCTCAGCA
GCCAATCAACTTATAGTTTATTTTTTTCTGGGTTTTTGTTTTGTTTTGTTTTCTTTCTAA
TCGAGGTGTGAAAAAGTTCTAGGTTCAGTTGAAGTTCTGATGAAGAAACACAATTGAGAT
TTTTTCAGTGATAAAATCTGCATATTTGTATTTCAACAATGTAGCTAAAACTTGATGTAA
ATTCCTCCTTTTTTTTCCTTTTTTGGCTTAATGAATATCATTTATTCAAGTATGAAATCTT
TATACTATATGTTCCACGTGTTAAGAATAAATGTACCTGCCCGGGCGGCCCGCTCGAAGG
G
Sequence 5127
CCCTTTCNAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTNGNTTNTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAANAANANNAA
AANATNTTTNTTTTTTGGGNNNNAAANAATNGNTNNNANNGTTNGGGGGNNNNAAAACCC
CCTNCNNCNAAANNATNNAAAAANTNTNAANNATNAGGCATTTNCTNNNTNGNAAAAAAA
AAAAAANNGGNGGGGNAANANTATTAAAATNTCCTGGNTCCTAAAGGNNTATTTNAAAAN
AAAAGNAAATNCATNNNTCCCNNCGNNNGNATAAAAAAACAAATTTTTTTTTTTATNAAC
AAAAAATTAGATGATGGGGNGGGACTNCCNAAAACCCNNTTTTACTTTTTCTTTCCNCNA
AAATGGGGNNGGGNTNCNNCCCCATTTTGAAATNAAAATTGCCCGGGNAANCAANNAAAA
TTTTAATTTTNNNGGAAGGGNANGAACCNGAAACTNTTCNTNAATNAAACCAANGCTTTT
TTTTTTTCANAAAAAAAAAAAAGGCCCGCCCTTTTGGATTGNNTTNCCAAAAACAAAANC
NNAGNGNTTTTTTTTNGAANTTAAAAAAAAAAA
Sequence 5128
CCCTTTCNAGCGGCCGCCCGGGCAGGTACACTTCAGTCACAATTCTGGAACNCTAAGAAA
AAACGTTCCAGACTTCAAACACAAATTTATCCTCACCAGTTAATAACTNCTTTTCTTTGC
TCAAAAACCCAGTGAGAAAAAATAACTCCAGGCCAGGCACAGNGGCTCATGCCTATACTT
CTAGCACTTTGGAAGGCACNAGGCGGGCGGATCACAAGGTCAGGAGTTCAAGGAACCAAG
GGCTGACCANACATGGNTGGAAACCCCCACCT

TABLE 1A

Sequence 5129

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTN
ANTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAAAAANNTTTTTTTTTT
NGGGGNAAAAAATTTTAAAACNCAAAAAANNNAAAAAAAAAAAANTTTTTTTTTANNAAA
AAANTNTTTTTNAAAAAAAAANTTNNNGGGNAAAAAAAAAAANNTTNTTTTTCCCCNAAT
NAAAAAAANANNNANGGGGGCNANAAANNNTTTTTTTTTTTTTTANAAAAAAAAANTTTTTN
CCCCCCTTTTTNAANANNTTTNAAAAAAAANCCGGGGGNAAAAAAAAAAAAAATTNNAAC
CNTTTACNNGGAGATTTTTTTTAAAAAAAAGAGTNTTTTTTTNACATGNCAAAAAAGNTT
TTTTTACACAAAAANTCCCCGGGNTGNCTTNANNAANANGNNAAATTTCNTTTNNTNGAA
AAAAAAANAGGGGGGGAAAAAAANTTTTTTTTNNNNNTANAACCCCNAAAAAAAAAAAAA
AAAANATTTTTTTTTTTTTTTTAAAAAAAAAAAAAACTATTTTTNNGGAAAAAAAAAAAC
TTTTNANAAAAAGNGNTTTTTTTTTAAAAAAAAAAAACNAANTTTTTTGGGGGGCCNNCC
NCNAAAAAAAAAAAAAAAA

Sequence 5130

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGCCTCAGAGGGAAAGACAGTGGAAGTTCCT
TTTAAAGGAGATGTGGAACATACCATCCGAGACATCCTAGGAGGGATCCGCTCTACGTGT
ACGCGGGGTCCAAGGATTTATTTAATGGGGATGTGTTCAAGGCAAGACCGAATTCAGAAG
GATATCGACCGTCGTGATCCAAAAGTCCAGAGCTGAGGACTGCCTGTTTGCAAATACTGG
ACTTTNNTNTTNNNANNNNNNNNTNTTNNNGGGNTTTTTTTTTTTTTTTTGAGGAATTAAC
AAGTNTTTTATTTGGGCTCAAACCAAGAATCCCGGGGGTCTTGAGGGACCTCTGGGGGAT
TGGGCAAATTTTTTTTNTCCCNCGTTTTTTTTTTTTGGGNCTTGTTTTCCNTNAACCCCCA
TNAACCCTTTTTTTTTTTTTTTTCCCGGGGGGGGGGGAAACNTTGGGGCTTTTTTTTTTTT
NCCCTNTTTTTCCCCCCAAAGGGGGGGGGTTGGTCAACTTGGGCCTNGGGGACCCCTGGC
CCCGGGGCGGGGNCCCGTTTTAAAAA

Sequence 5131

CCCTTAGCGTGGTCGCGGCCGAGGTACCATATTTCAGATATTGGCACATTCGGCTTGTAT
AAGGGGAGACGCTTTTTTGCAGTTGGACGGCCATTGAAGACAAGTTGGTCACCCCAAGTT
TTCTTTCCAGTTCTTCTGAAAAACTCACTANAGAAAAAGAAAGCAAGAAATACAGAAAAG
TATAGAAAAATAATCCATATTCCCACCACCTAGGATTAAGTTGTTAACAAGATGAAAACT
TCATACTGAAAAACCACCCTTTCTAGAGGCGATTTACCACTTATTCCTTGCCTTTCAAAA
ATATTTTACTTTTNCAAGGGNAANCTCTCCTTATTAAATTTTGAAAAAAAAAATGNTTTC
TTTTAAATTAGAGATTGTTAACTTGGGGTC

Sequence 5132

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATCTTATGATTAAAAACAAATTAAATT
TTAAAACACCTGAAGATATATTAGAAGAAATTGTGCACCCTCCACAAAACATACAAAGTT
TAAAAGTTTGGATCTTTTTCTCAGCAGGTATCANTTGTAAATAATGAATTAGGGGCCAAA
ATGCAAAACGAAAAATGAAGCAGCTACATGTAGTTAGTAATTTCTAGTTTGAACTGTAAT
TGAATATTGTGGCTTCATATGTATTATTTTATATTGNACCTGCCCGGGCGGCCGCTCNAA
AGGGCNAATT

Sequence 5133

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTNNTTNNTTTTTTTTTTNTNNAAAAAAAANAAAAAAANTNNNTNTTNN
AATTTNNNAAAAAAAAAAAAAANNGAAAAANAAAAATTANTNTANNNANACAAAAANAG
AGNNAAAAAANGNNTNAAANTTTTNNTNNAACAAAGGGGNTGAAAAAAAAA

Sequence 5134

CCCTTNCCAGCGGCCGGNCNGNCNGGNACTGNNNTNNTNTATTTANNNNNTTCATATTGG
CTNGGCACANTGGTTCACACCTGTAATCCCAGCATTTTGGGAGGCCGAGGCGGGCGGAGG
TCANGAGATTGAGATCACCCTGGCTAACATGGTGAAACCCCGTCTCTACTAAAAAAATAT
AAAAAATTAGCCAGGTGTGATGGCTGGCACCTGTGGTCTCAATTACTCNGGAGGCTGAGG
CAGGAAAATGGTGTGAACCCAGGAGGCGGAGCTTGCAAGTGAGCCGAAATTGTGCCACTG

TABLE 1A

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CACTCCAGCCTGGGTGACAGAGCGAGACTCCGTCTCCCNTTTTTTAAAAAAAAAAAAAAA
NCCCCCCAGTTTTTTNTNGGTTNNANNNCCCCCCCNTAAAAGGGGGGGAAGGAAAANTTT
TANCCCCCNTCCNCCNCGGGNGGGGGGGGGNNNGAACNAAANNAAATNAAATCCCCTTTT
AAACCCCCCCNNNGNGGGGGGGAAAAAAGTTTTNNTCCCNGGGGGNNNAAAAANAAAAAA
AANNGNGTTTTTTTNNANAAAAAAAAAATTTTTTNNCCGGGGGGNTTTTANNNAAAAAAA
AAAANGGGGNANGNGGGNNGNCCCCCTTNTTGNNNCCNACNAAAAAAATTTTTTTN
Sequence 5135
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTNTTTTTTTTTTTTTTTTNTAAAAAAAAANTTNNNAAAAAAAAAAAAAAANNCCCCCCT
TTTTNAAAAAAAAAANCCCNNNNAAANNNNAAAAAACCCCCCCNAAAAAAACCCNCTTTN
NANAAATNNNTGGGGAGGNAAAAAAAAAAAANCCCCCNTTTTTTAAAAAAAAAANNNCCC
CCCCCCCCCNGGGGGGGGNNNNAAAAAAAAAAAAAAAAAAANTTNNTTNAAAAAAAAAN
CCCNAAAAAATTTTTTTTTTTTTAAAAAAAANCCCCCCCNNGGGGGGGGGGNTTTTTTTTT
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TTTTTTTAAANACCCCCNCNGGGGGGGGGGAAANCCCAAAAANNANNNNTAAAAAAAAAA
NCCNNTNNTTTTNAAAAAAAANANNNNNNNNNNNNNNNNNNNNNNNNNAANNNNNCAAA
AGAAAANTTTTTT
Sequence 5136
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTCTCATGGCTTTTTGGTTCCAGCAGTGAGG
GCATTGGTGAGATCAATGGTAAACTGTGCAAGCTTTCTTTTTATCATTAGGAAATGTGAA
ACGTTGGACAAATTTTGAGTTTTAACAAGGACAAAAAGTTGAAAGAAAAGGCACAGTTAA
CAAAAAAGGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGAGAGAGGAATGCTCTTG
AAAGGTGGTCTGTGGATCTGTCTGAATAGAAAGAGCACAGTAAGTATGCATTGCCGGAGA
AAACGTCCTTGAAGCTGCTTGTCTCATGTGTATGATGTGCTTTTTAAATCATGCCCCTCG
TTGCCTGCCTAATCTGTGACTCCCTAAAAACTAACTGGGCCCATGTAGATGGGGCTGCAA
CCAGAGCTGAATAACATGTTAGGCTCACACATGCATCANCACTGCACACTGGAATCATTG
CTCTTCCTGGACTTTGTANAAATCAGTCTCAAGTGCTTCAAGAGTCTGGCTCCTG
Sequence 5137
CCCTTAGCGTGGTCGCGGCCGAGGTACCTATAGAATTATGAATATACAGTAACCTCATTG
AGATTAATCATAAAATCAACACTAGATTCCAATATTAACTGTTTATACTGCATTTTGTTT
GTTCCCGCGCACCAACTTTGTCATGCCTTAAGCAGGTTAGTTCTTTTTACTGTGTCTTAA
ANNNTTTTTCCTAGTGAGTAACATGGTATTTTTTAATAATCCCGCGTACCTGCCCGGGCG
GCCAAAGGG
Sequence 5138
CGCCCAGTGGTGAATGGATATCTTGCAGAAATTCGCCCTTTCGAGCGGCCCGCCCGGGCA
GGTACTCCAGCCTGGGCAACAAGAAGACTCCATCTCAAAAAAAAAAAANGGATNGTTGGC
CTTTTTAAACCCATTCCCAAANAANTACCCCTTCAANGTNTTTAACNTGGGGCCAANGGT
TTTTNCGGAAAAAANTCCCCGGNTTNAANAATGAGTTTTNAATTTATTTTNGGAAAAATG
ATTNACCCCNTCAGGTAAAACCGNTAAAGGGGGGAAAAAAAAANTNTTTANCCAANNTAA
AATTTTCCGGTTGGGNATTTATTAANAAGGTTNGGGAAAAANTCGGGGGGGGGGGGGTCAT
GGCCTTNAACCCCACCCTTTTCAANGGCCCNTTTCCNGGAAGGACTGTTTGAANGCCANT
TGGAAACNACCNGGGGGCAACCNAAAATTTNTTTTCCACAAAAANTTTTAAAATT
Sequence 5139
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCATTTGCCTAATTTTTGCCATTCTCATAA
TGTGGCAATTGTTCAATTTTGCATTTCTTCCATTTTATTTTTTTGCATCTCTGCTTTTCT
TTTGGTTAGCTTTGCCAGTTCTGCCTATTATATTAATCTCCCAGAATCAGCTTTTAGTTT
TGTTAAATCTCTGACATGTTTCGTTGATTCCTGCTTTCATCTTAAACATTTCTTCGTTGT
TAATTTGTGTTTGCTATAAAATAAGCAACATCTTAAATGCTTGATTTGCTTTCGATGTTT
ATTCTGTAATAAGATATTTAAAGATATAATTTTTTCCCTAAATGCTTTATTAGACTTTTC
TCATAAGTTTTGACTGGTACCTCGGCCGCGACCACGCTAAGGG
Sequence 5140

TABLE 1A
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CCCTTTCGAGCGGCCGCCCGGGCAGGTACNTATGTNATATTTAACAACCCCCTTTTGAAG
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GTGGAAAGAATATTCATTTGAGTGTTTCAGGAAGTTTGGATTTTTTTTTTTACCAACATAT
TATTTGTAAAAGGAGGGAAATCAGCTGCCTCAGGAGGTTCTTAACATATAGGAATGTAAT
TATCAGATTCAAAGCTGAACAGTANTGCGTTGCCCTGTAACCTAAGTCTTGGGCTTGTTA
GCAAANAAAAAGCCAGTGTCTGGGGTNTTGGTTCCAGGACCTTCCACTTAATAACAAAAT
CC
Sequence 5141
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TTTTTTTTTTTTTTTTTTTNNGGGGGNNNNGNATANTNAAANTNCCAAAAANTNGNGGGG
GGGNAAAANAAAAAAAAATNTTTNGANNAANGAANANNGGNCCCCCCCGNTNNNNTTTNA
ANAATNGGNGGGGGGGNNGGANAAAAANNCATAACNNCCTTTAAAAAAAAAAAAAAAANG
GGNATTNATNNNAGGNAANNANGCCTTTTNATGAAAAAAAAAAAAA
Sequence 5142
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATAAAGCATGCCAACTGCTGCTGGGAATCAT
CTGTTCCAAAGAGGCCAACACTTACTCGTCTGTTTTTATTTTGCGTAAAGAATGAGTAGA
GCATAAAACCCCTCACCATCTAGTGCCTGTTTTACCCCAAATCTTCTACATCCACTGTTC
CGAAGATTTCCACACTGATTCTGAGCAATTTATGTAAGCCCAGGTGTTCAAAGTTCCAGG
TTGAAACATTTGGTTAATTAACATCATGCTGCAAACACTCAAAATCACTTCAGCTGCCAC
TATAACAAAACAAAACTCCCAAAAACAAAAACTGTAGGGAAATATAAACAAATGGCAGTA
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TAATACTGNGTTTCTCAAAAACATTTTTCTAAAGGAAATTATATTGAGTTTGAGTAAAAA
ACTTGAAAGTTCCTCGGNCGCGACCACGCTTAAGGGCCGAATTTCC
Sequence 5143
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NCCCCCNCCCCCCCNCCNNAANNGGNGAATTTTAGGANNANNNGGGGGGTTCCCCATGTNG
GNANAGCNGGTCTNNAACTTTTGAGCCTAAGGGNATCTATNTGCCTCGGCCTTCAAAAGA
GCCCNGGAATNAANNGGNCATNAAANANCCCNTGNNCCTTGGCAAAAAAANGGG
Sequence 5144
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTTTTTTTTTTTTTTTAAAATTTTTT
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AAAAAAAAAAAANCCNNNNNGAANGNNAAANNNTNTTNNTTATNGGGAAAAAANNCAANN
CTTNTTTAATAAAGAGAAAGAGNGGNNANNNGNTTTTTTCCNNCCCCCCNNAANNAAAAA
GAGGGANNAAAANCNCCCCCCCCCANCCCCGGGAGGGGANNNTANAAAANTTTTTTT
Sequence 5145
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TTATCTTTGTAAAGCCATGCATTTACCTTGTTTATTCCTGGTTATGTTTTTATCTCACAG
CCTATTCAAAAAGATTTTGAATAATTATTTCAAAACTTTTTGCAACTTTAATAATCTTAA
ATAACCTTAAAATATTTAGGTAAATACGGCATCATCTGCATGGAGGATTTGATTCATGAG
ATCTATACTGTTGGAAAACGCTTCAAAGAGGCAAA
Sequence 5146
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TGTGCTTGTTNGAGTGAGACAACCACCATCANGAAAAGACTCANGGCTGGCAGCTGTAAC
TAAATTTAATTTTCACCTACATTTCNCAGTTTATTTATGGTGANAAGTGTTNCTATGCAA
GCATTCTTTNANTGAACCAAGAAAANTAGNCATATCCANGCTCTGACAAANAACTTANNC
TNTGGGATTTTGTTANAGGNAAAATTAAATAANGAATTTATTCC

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Sequence 5147
CCCTTAGCGTGGTCGCGGCCGAGGTACATCTGAAAGGAGTGAGAAGTGTTTTGAGGGCTC
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TAGCAGGCTGAGGGGTCAGGAGGCTGTCACTGGAGCTGTTGAGCTCATGAACACGCCGAA
GTTGCTGCGCTCCAGAAATGTGGAAGTTGGAATGAAGAGCCACCACTGCTGCCACCAACA
TGAAGCTTGACCAAGCAAGCCAAGAAAAGATGGCCAAGAGCCTCTGCCTTCCTTCTGCCT
TCTGCAACGC
Sequence 5148
CCCTTAGCGTGGTCGCGGCTCGAGGTACNCGGGGAAGGCCAGGCATGGTGGCTCACCGCC
TGTGATCTCAGGATTTTAAGAGGCTGAGGCAGGCGGATCACCTNAGGTCAGGAGTGAAAC
TGGCCAACACGGTGAAACCCTGTGTCTACTAAAAATACAAAAATTAGCTGGGCATGGTGG
CAGGTGCCTGTAATCNCAACTACTCCNCGAGGCTGAGGCANGAGAATTNGCTTTAAACCC
CGNGAGGCGGATGTTNCATGTGTAGCCGGANNATGGCACACATTNCNNCANTTTTCAAGC
CCTGTGGCTTACAANGTAGTGGAAACNTNCCGTCCTCAAATAATCAAAAANTTATAAACA
AATNAAAANTTATTTATNAAANCACGTTTATTTTGG
Sequence 5149
CCCTTAGCGTGGTCGCGGCCGAGGTACTATCCCAGCCCCCCAGGTTCGCCTAATAGTCTT
GGCTACTTCCCTACAGCTGCTAATCTTAGCGGTGTCCCTCCACAGCCTGGCACGGTGGTC
AGAATGCAGGGCCTGGCCTACAATACTGGAGTTAAGGAAATTCTTAACTTCTTCCAAGGT
TACCAGTATGCAACCGAGGATGGACTTATACACACAAATGACCAGGCCAGGACTCTACCC
AAAGAATGGGGTTTGTATTTAAGGGCCCCAGCAGTTAGAACATCCTCANAAAAGAAGTGT
TTGAAAGATG
Sequence 5150
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NANNNNGGGGGNNNAAAAAAAAAAANTTTTTNTGNNTTTNAAAAAAAANTTTTNANGGGN
NGGNAAAAANCTCCCCTTTNCAAAAAAAAAAAAAAGGGGNNCCCAAANTTTTTNCCCCCC
CCCCCNTTAAAAAANGGGGGGGNNCCCCTTTTTTNAAANGGGGGGGGGGGGNTNAAAAAA
NGGGGGNNCCCGGGGNTTTTTAAAAAAANNTTTTTNNNNCCCCCCTTTNNAAAAANNTTT
TTNAAAAANNGGGGGNCNCNCCCCCNGGGGGNNANNNTTCNCCNNTNGGGGGGNTTTTTT
NTNNTNTNNACCATTTNNAAAAAAAAGGG
Sequence 5151
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TAAAATGGAAAACCCAGAAAATGCTAGATGTTGGTCAAGAGTTGGAGTAACTGAAACTAC
ACAGCTGCTGGAAATGTATATTGGTATAACCACTTTGGAAAATGGGAAGTTCAACAAACA
GGCAAACCAATCTAGATTTAGGGATATATGTTTAGGTAGTAAAAGTATAAAGAAAGGAAA
TAGTTAGCTTTGCAGGGAGTAGTGCTTGGGAGGTAATAGGTGCTTCTGGAGTGCTGTTGA
TGTTCTGTTCCTAAGTAGGGTGCTATGGCTTGAGTTTGGTTTGTCTGACCCTACCAAGTC
TCATGTTAAAATTTCATCCCCAGTGTTGGAGGTGAGGCCTGGTGGGAAGGGTTGTGG
Sequence 5152
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATTGCTTTGTGTTCAGTCCTTTTGGA
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GAAAAAGGATGGAAACTATGTCCTCAGTTTTACTTCTACCAAAACATCCCTGTATGTGTG
TGCATGTATGTTGGCGTGTGTGTGTGTGCATGCATATTAAGTAAATGTGTGTTTGCATGT
GTGTGTTGGGGA
Sequence 5153
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTNNNTTTTTTT
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AAAANNACNTTTTTTTTNNAAAAAAAAAAAAAAAAGGNGNNGNNNGNAAAAAGGGANTN
ACCCTNNCCCCCCCCNCNAGGGGGGGGGGGNTTTTTNCCCNNNCANNGGGNGGGNAAAAA
AANNCCNNNCNCCNCNTNNNNCCCNCNAAAAA

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Sequence 5154

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAGGTCTTCCTTAAGCAGCAAGAAAATGTGG
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AGTCCACCTTCCATGGTGGTTCAGAAACCAGACTACCTTAACGATTTTACCCACGAAATC
CCAAATATCCAGACTGGCTCCTATGAAAGTATGGCAAAAACCACACCAACTGGAGGCCTT
CCAAGGGACCCCCAAGAACTCATGGTTGATAACCCTTTGAATCAGCTCTCGACTCTAGCA
GGGCAGTTGTCCAGTCTGCCACCCGAAAACCAAAACCCTGCATCCCCTGATGTAGTTCCC
TGCCCTGATGAAAAGCCTTTCATGATTCAGCAGCCCTCTACCCAAGCAGTA

Sequence 5155

CCCTTAGCGGCCGCCCGGGCAGGTACGCGGGGGGATTCCCTTCTGTCGCGCGGCCTTATA
GTTCCGGCTGTGGCGCGCGGACGGAAAGTTTATGCCGACGGAAAGTTTATGCCGACGGAC
TGTGTCCGGCGATGGGCACGGGCATTTCTTCGTTTATAGCTGTCTGTTTGCATTCTGATT
GGGAACACTGGGATCATTTTCATCATGCCGACAGTGGTGGTAATGGATGTATCCCTTTCC
ATGACCCGACCTGTGTCTATTGAGGGGTCCGAGGAATACCAGCGTAAGCACCTAGTAGCC
CATGGTTTAACGATGCTGTTTGAGCACATGGCCACAAATTACAAGCTTGAATTTACAGCA
CTTGTGGTTTTTTTCATCACTTTGGGAGTTGATGGTCCCCTTCACGAGAGATTATAATAC
CCTACAGGAAGCACTAAGTAATATGGATGATTATGACAAAAC

Sequence 5156

CCCTTAACGTGGTCCGCGGCCCAGGTACTTTTTTTTTTTTTTTTTTTTTTTAACTGAAA
GAGTTGACAATTTTATTTTCACATTTCCAATACAAAGGAAAACTGCATCTTTTTTGCCCA
CTTCTCCCCTCCAAAACTATTCTCTTTCATGGGACAGGGGAACAAGTCTTCCTTATGCTG
TTTAAAAAACTCAAGTATCACAAGCANCATGATCTCCTGGTGAAGCAGAACAGGTAATAT
AAAACCCGATACAATAAGGCCTCCCTCTATCCTTATCTGTCTGGTCGAGTCATTCCCGGC
CCAGTGGNCACCATCATGGGACCGGGCAAGGANGTCTCATTAATTGGGGGCCCAAGCANT
AATTGGCATATGGCCCTCCATGGGCCGGCCTTATTCCAAGGAACCAGGTCCCACTGGCAT
NATTCCAAGGANGGAGGAGGGCCCATCAATTTGGCCATCATNGGGANGGGCCCCCATATT
GGGGGNGCTGGCATTAAAACCAAGGGCCAAGGAAGGACCCCCGAAAGG

Sequence 5157

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TTATTGTTCATATTTCCTAATGGGGAACAGCGTTTTTCTCTTACATTCCAGTATTGTTTC
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ATCTTTCAGCTTTTCTTTAGATAATGGCTCTTAAATGTTGGTCTGCAGGCAGGTGATAGG
CAATGATATGAAAATCATATGGGGGACTTATTAAGAATATAGATCAGCAGGGCCCATCTC
TCCATATGCTGATTGAGTAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 5158

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TCTCAGATGACCAATTTGGAAGACATTGATGTCAATCATAAAAGCAAGTTATCTTCTNTG
CAAGATCTNGAAAAAACTAAACAGCTTGAAGAACAAGACCACTTATTAGAAGATTATCAG
AAAAAGAAAGAAGACTCCACAATGCAAATTAGTTTCTTGCAAGAGAAAATTAAAGTNTAT
GAAATGGAACAAGATAAAAAAGTAGAAAACTCAAATAAAGAAGAAATACAGGAAANGGAG
ACANTCATTGAAGAATTATTTAANANGGACGNANNAANAAANGTNCCTTGCCCGGGCGGC
CNGTTCGAAAGGGCGA

Sequence 5159

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GGTCTCGAACTCCTGGCCTCAAGTGATCTCTCACCTCGGTCTCCCAAAGTGCTGAGATTA
CAGACATGAGCCACCATATCCAGCCCCTTGCCTTGAATTTTTAAAAAATTTTAGAGACAT
ATTCTACATATAAGTTGCATTTTTGACATTTTCACTGATATCATCCCAAGGCATTAAGTA
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Sequence 5160

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CACTGCCAGGGCTGGCTAATTTTTGTATTTTTAGTGGAGATGGGGTTTCACCATGTTGTC
CAGGCTGGTCTTGAACTCCTGAGCTCACGTGATTCGCCCACCTTGGCCTCCAAAGTGCTG
GGATTACAGGCGTGAGCCCCTGGGCCCAGCCAGGGATATTAAATCTTGACCTTCAAAAAA
ATTATAAACCACTGTCTTAAAGGAAATGTCTGCCACTNATGTGAACTGACCCCAAAAATT
GANGGTTTATGGCTTTGGTTGGGTCNAAAAGTCCAAAGGACAAAGCCTAAGTCTGGTTTC
AATAATGAACGNNTNAGGAANAAAACCCGGNCANTTAAANAAAACTTTTTAANTTTTGGG
CCTTGGAATTTAAATTAAAAAAATTTTTTTTCCTTGGAAAAAAANCAAAAGGTCCCTTTC
TTTTTTTCNAAAAANCTTTTNATNGGGTTAAANGG

Sequence 5161

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ACATACTCTGATATGGTTTGTGTTTGTGTCCCTGCCCAAATCTTACATTTAATTGTAATC
CCCAGTGTTGGAGGAGGGGCCTGGTGGAACGTGATTGGATCATAGGAGTGGAGTTCTCAT
GAATGGTTTAGCCCCATCTCCCCTTGCTACTATATAGTTAGTGAGTTCTCATGAGATCTG
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T

Sequence 5162

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTCCTGCTCCTGTTTCCTTAACCACCATCCT
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CCTCCTCTCCCAACCACTTCAACGATTCTTTCTTTGGGTTTGGGGTTCTTGCAGTTCTAT
CATCTAAAATAACCTTTGGACTGCNGGTAAAATGCAATNAGGACAACTAACCAAGTAGAC
NAAACAAGTTCCCCTAGGCAGGGGNGTCCAATATTTANCTTCCCTGGACCGCATTGGNAA
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Sequence 5163

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TCTCTTAAAATACAACTGTATTATAATTGAAATGACAGCCCAAAATTGGATGGTTTACCA
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Sequence 5164

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CACGAGATAAAAATTTTTATGTCATTTTCTGTAAAATAGGACAAACTAATTTCTATTGTG
ATTAATTTAAACATAGCTNTAATATTTATACTAAGTTTTATATACATTAGTATATTGTAA
TCACATTAACTTATCTCTGTATATCATGAAAGAGATTTTGTCCCTCNGCCCGCGACCACG
CTNAGGGCGAATTCCAGCACACTGGGCGGCCCGTTACTANTGGGATNCCNNAGCTCGGTA

TABLE 1A
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CCAAGCTTGGCCGTAANCAANGGTCATAAGCTGTTTCCTGTGTGAAAATTGGTAATTCGC
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TCTAATGGNCGGNCCTTTATTTTANATTANCCCCCTNCCCTCTCCCCCNCCCC
Sequence 5165
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GATTGTACGCGGGTTATCAGAAAAAAATTTCCAGCTCAACCAAGATAAAATGAATTTTTC
CACACTGAGAAACATTCAGGGTCTATTTGCTCCGCTAAAATTACAGATGGAATTCAAGGC
AGTGCAGCAGGTTCAGCGTCTTCCATTTCTTTCAAGCTCAAATCTTTCACTGGATGTTTT
GAGGGGTAATGATGAGACTATTGGATTTGAGGATATTCTTAATGATCCATCACAAAGCGA
AGTCATGGGAGAGCCACACTTGATGGTGGAATATAAACTTGGTTTACTGTAATAGTGTGC
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CAGCGCTAAGG
Sequence 5166
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTTATCTGTGTTTTCGGCTAACAAGC
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TGAGAGGGAACGCCCCCGTTCAGGTTCACTTCCTGGATCCTTACTGCTCTGCCTCGGTGG
CAGGAGCCCGGGAAGGAGATTATATTGTCTCCATTCAGCTTGTGGATTGTAAGTGGCTGA
CGCTGAGTGAGGTTATGAAGCTGCTGAAGAGCTTTGGCGAGGACCGAGATCGAGATGAAA
GTCGTGAGCCTCCTGGACTCCACATCATCCATGCATAATAAGAGTGCCACATACTCCGTG
GGAATGCAGAAAACGTACCTCGGCCGCGACCACCGCTAAGG
Sequence 5167
CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTAATTTNTT
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AAAAAAAAANTTTTTTGNGGTTTGGAATCNCCNNCAANNGGGAAAAAAAANTNANNANTT
TTTTTAAAAAAA
Sequence 5168
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GACGGGAAGAGANACCTTGACACGCCTTTCAAAAGAAAA
Sequence 5169
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ANGGGNNGGTTTTTAAAAANTTTTTNGAAAAAAANNTTTTTTNCNAAAAAANNAANNNNA
AANNTTTTTAAANANTTTTTAAAAANTTAAAAAANTTTCNGNTTTTAAAAAAAAATTAAA
ANTTTCCCAAAAATNNNAAAAAAANNGGNATTTTTNNCAAAGGGGTTCCCCNAAAAAAAA
T
Sequence 5170
CCCTTTGAGCGGCCGCCCGGGCAGGTACCAGATGGGAGGGATTCCTTGCACGTAATCTTG
AGCATCCACCTGCTTCAGCAGGTTCAACACCAGGTGCAAAGCCATCCAGGTGTGCCCAAC

TABLE 1A
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AGCAATTAGCTTGGTATTATTCAGTAAAACTTTCAGTTAAGATTTCAATTGACAGTTTGG
GGAAGGGATGTGCTGGCTATTAGTTAAATGACTTTAGAGGGGGGTTCATTTGTCTCTGTC
TCACCCAATCCTGAAACTGCAGTGTAACCAAGAAAAAGCCAAAGAGAAGCACTTCCCTTT
CTATCCTCGTCACTAGTAACTGGAGGTTTTTCCAAAATTAAAAATCTGTGTCTACATCAT
GGTCCATATTTTAGACCCTGTCATGGAAATAAGTGCTCAGGTAAACTAATATTTTTCTTT
CACCCCCAGAACTAGAGCTTTCCTAGCTGTAAGCCTTATAAACCAAGATGCAGGTACCTC
GGCCGCGACCACGCTAAGGG

Sequence 5171
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AGTGAGCCAAGATCGTGCCACTGCATTCCAGCTTGGGTGACAGAGCAAGACTCTGTCTCA
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ACCCCATTTTTTNTNNAAANNNNAAANTTTCCCCGGNTTNGGGGGGGGGNCCNTNAAACC
CNNNNTCTTGGGNNGNTTNNGNNANAAAANTTTTTTAANCCNGGGNACCNAANGNTTNNA
GNNNCNTAAAATCCNTTTTTGNCCNNCCCCCNGGGGNAAAAAAACNAAACTNNTTTTCAA
AAAAAAAAAA

Sequence 5172
TTCNCCCAATTCCCCTTCCACGCCCCTTGANNTATCTTCTNNTGGGGAAGAAGNGGNCTC
CNCCAAAANACAAAAATATTTTTTTTTTTTTATATNGCNTCCCGTNCCTNNNGGCCCTCC
NCNCCACTNCGCCCACACCTTNCATNNNNACATAATCNNCTNTCCATCTCNGACNGAGAN
ACCCATATATCTNATTTGNCAATNAANGACTCCTAANNATANCCCTCTTAGATTAACTAA
CTGCGTNAGANGGAGTCTTAAAAGGANNNCCTCNNNNAAATAAATTCAAGGGTAACAANT
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TTTCGTNGAATNTTTGAGTTTAAAAATAATGTCNCTGCTCTAAATTTCACCCATGGTGNT
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Sequence 5173
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NAAGCCCATTCCTCGGATTAGCCAGGCTGAAGAAGAAGACCAGCAGGTGGGAAGAACAGG
GCCAGGGTTTGGCTGGGAGGAGCCCCTGGACCCAGCTAGAGGTCTTGCTCCCTATGAATG
AAGCCACCTATGTCCCTCCGCTCTCTCTATAGCTTCTAGGACACCTACTCCTTGTGGCCA
AGCAGACAGCAAAGGCTGGGGGCCTGGGAGATGGATACCGACTTGGTGAGCGACTTTTGG
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ACCTCTGCCATGATCCTGACTCCCTAAC

Sequence 5174
CCCTTAGCGTGGTCGCGGCCGAGGTACAAATAGGGTCACCTACTCTCAAATTCTGCGGTT
CAAATTGTGGTTGGAGATGAGATGTTCTATTTCTGCATCTCTCCTGGACCATCTTAGAGC
AGTGCAAAGTTTACTGGATCTTCCAGTGCATTATTGGCCCTTGGTGTGATGACGAGAGAG
CAGGAAGGAGGTCTCCAGCTCCTTTTCTGAGTTCAGATGTTCCCTAGCCCAAGAAGACTA
ATCATGCACCTGGTTTCCTGCTCTGAAAAATAAGAAGTGATTTTGGCAGCCTTTGAATCT
GGATGGAAGGTGGTTTTTTTTTTTTTTCAGTAACAAAGGTAGTTGTGTATGTATGTACCT
GCCCGGGCGGCCGCTCGAAAGGGCGAATTCCANCACACTGGCGGNCG

Sequence 5175
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTN
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NNTTNNNNNCCNGGGGNTTTTCCCNNNTTTTTTTAAAAAANTTTTTTNNAAAAAANNNGN
GNNTTTTNAGGGNAAAANNNAAAAANNTTTTTTTTAAAAAAANNTTTTTTTTNNTTTTCC
AAAAAAAANGGNCCCTAAAAANNTNNCCNNAAAAANNNNNNTNGGGGGNTTTTCCCCCCC
AAAAAAAAACANTTTTTAAAAAAAAAAAAAAANTNCAACCTTGGGGGNAAAAGGGNNAA

TABLE 1A

AAAAAAAAAANAAANNAAAAAANNNNCCCCCTTTTTTTTNCCCCCCCCCAAAAAAAAAAN
NAANTTTTTTTTTTTTAAAAAAAANNNTTTTTTAAAA

Sequence 5176

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAAGTTCTAGCTGAAGCTGGAGGAGAACTGG
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TGTCAGAGAGACTGGGAGAAGAGTGTGATGATGGAGACCTTGTGAGCGGAGATGGCTGCT
CCAAGGTGTGTGAGCTGGAGGAAGGTTTCAACTGTGTAGGAGAGCCAAGCCTTTGCTACA
TGTATGAGGGAGATGGCATATGTGAACCTTTTGAGGGAAAAACCAGCATTGTAGACTGTG
GCATCTACACTCCCAAAGGATACTTGGATCAATGGGCTACCCGGGCTTACTCCTCTCATG
AAGACAAGAAGAAGTGTCCTGTTTCCTTGGTAACTGGAGAACCTCATTCCCTAATTTGCA
CATCATACCATCCAGATTTACCCAACCACCGTCCCCTAACTGGCTGGTTTCCCTGTGTTG
CCAGTGAAAATGAAACTCAGGATGACAGGAGTGAACAGCCAGAAAGGTANCCTGAAGAAA
GANGATGAGGTTTTGGCTCAAAGTGGGTTTCAATAGACCAGGAGAGGCCCAGAGCAATTT
TTATT

Sequence 5177

CCCTTGAGCGGCCGCCCGGGCAGGTACTCATTTTCCTTTTGTAATTAATAAGTCCTTTTT
GCAGAGTTCTTTGAAATTATGTAAATACTTTGTCATCAAACTATCAATTCATTAGGTAAT
AATCTGTATCACAGGAAATCATGGTTTCCTATTTTGTATATTAGGTTATAATCTGTTACT
ATCATTATTTCTTTGAGACCAGTGTGGGCCCTTCAATCTGGCTCTGACTTCTGGGTTTTT
AAAAGCTTTTTGGGTGATTCTAATGTGCAGCCATGCTTAAGAACCACTTNTCTAGGTNGA
CCAAAGCACCTATATTCAAAGGATATTCACAGGATTGCAGGCAACATGCAGCAGCCTCAG
GGA

Sequence 5178

CCCTTAGCGTGGTCGCGGCCGAGGTACANACTTTATTTCCACTCTGGTGGATAAGTTCAA
TAAAGGTCATATCCCANAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAANGGNNNNNNNNTTTTTTNNTNANANAAAAAANNCCCCCC
CNNANNNTTTTNAAAANNGGGGGGNGTNNNTTTTNNAAANAAGNNCCCCCNNTTTTTTTT
TNNAAAAAANNCCNAAAAATTTNTNNNCCCCNACCCCTTTTTTTTTNGGAAAAACCCCNA
NNGGGGGGTTTTTTTTTNTGNGGGGGGAANGCCCCCCCCAAAA

Sequence 5179

GTGTGATGGATATCTGCANAATTCGCCCTTAGCGNGGTCGCGGCCGAGGTACCTAGGGTT
ACAGGTCTAGAAAGTGCAGAGCCATCCCTACCTAGAAGAGAATAGATGGGAAGAGAACTG
AAAGAAAGAATTCCTCAAGCACTGAAGTCAGGAAAATCCCCGTAGGCACTGTATTAGTTG
TTCCATTTATCCCAGCACTCCACTTGTGGATGAAGGAGTTGTATAGAAAGGAGATGAGAA
AATGGCAGGAGTGGAAGCAGCCAAGAAGAGATCGATGACTGAAGATCTCCTTCACCTTCA
GGACTGTCTCAAGGGGTTATTTCACCTCTACTCATGAGGATGGCCAGTTTTTCTGTCTTT
TATCTTTAGACCCATATATAATCAGTTCAGAGCACAAATCAAAATAAACTGGCCTAAATA
ACTGAATTCTAGGAAGCAAAGCTACATCTTTTTTCATATGCCAAAGCTTCTGTTTCCTCA
TGTTGGTCCTACTTTTTAAATAATAAATGGCTCTCAACATCTTANGAACTAGATGGGTCC
CATCTGGGTAGGAACCTGCTATAANTTTTAANAATCACTCTTGTAATTCTTACCCTCACC
TTAAAAATNTTAGGAAACNCCAGTAANTTGAAAAAGACNGGGGAGAACCTCGTCTTGCAN
GGTTTTGGGCAGTGNAAATTTGNCTTTCCAGNGAATTGCTTTTTTTTTTTAAATTGGCCTN
AAATCNAAAAAGCTTTTNCATTGGNNGGAGACCTTCTTTTCAAATGAACNCGNGTTGGAA
TTCNACCCCTCTAAATTTTTTTGCATTTTNCCTGTTTTTGGGGAA

Sequence 5180

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGTTTTTATTGAGGGTCAGCTGTGTGGACTT
GGCTAACGGCCTGCATGACTAACCTTAACCTCTAACCCCTTCAGATGTTGAACTGATGCT
TTGTGGCCCAAGGTCCTCACTACAAATAACATCATTAGCATACAATATCTAGTGTGGTCC
GAGATCTGCAGGTAAACGTAGACATTCTTATTAGTCAGGAAATTCCAAGGGTAGAGGATA
TTTCCTGGGAGATAGGGTGAAGGGCCAGGGTAGGGGATATTTCCTGGGAGATCGGGTGAA
GGGCCATACTTTTCTTTGAGCAAGAATCATCCTTTATAGCATAGGCCTGATATGAAACAG

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CTAATTAGAAACACAGCTGAGATTTGAACCCAGGCATTCAGACCTCAGGTGCTTAACCTT
ATGTAACAGCCCATTTGCCCTCCACCACCAACAGTGTCTCCTCCTATGCTCATTTGACAG
TA

Sequence 5181

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CGAGACAGGGTCTCTGTCACCCAAGCTGGAGTGCAGTGACACAATCAAGGCTCACTGTAG
CCTCAAGCTTCAGGGCTCCAGGGATCCTCCCATCTCANTCTCCTTGGGAGCTGGGAGTAG
GCATGTGCCACCATGCCTGGCTAATTTTTTTAATTTTTTTTGTAAAGATGGGGTCTTGTCAT
GTTGCCCATGTCGGTCTCAAACTCCTGGGCTCAAGCGATACTCCCACCTTGGCTTCCCAG
TATTGGGATTACAGGTGTGAGCCACCATGTCTGGCTTGCTTCTCTTTTTGNATTCTAAAA
TTCAAAGGNCTAAGTATTCAAATCCCTAAATCTTCAAATACTGGCACAAGATNAAGACTC
NATAATAAACTCCTCCGAAAGTTTAAACAGGCTCAAGGGANGGACTTTGTTNNANGGGGT
TTTNAAAAANAAACACCAGTTGCTTTGCAAAAAAAAAAAANTTTTAAATTTTTTAAAGGG
TCCATTTAAAGGGAAAAAGGTGGACNANAATTTGGAAACCCAAAAGGGATTTTTNANGTT
TTTGGAAAANAAAA

Sequence 5182

CCCTTAGCGTGGTCGCGGCCGAGGTACACGAAGCTTTATTTTTGGAATTTACAAGTTAGA
TTTTATAGATTCTTGTTCAGAAATAGCTGAACAAGAATAAAACTATGTTACTGAAGTCCT
TTAAATGCCATTTTCTGAGGTGAACGTTCTCAAATATGGATAAACAAAATTACATATCCA
GACAAAAATCCCTATTTTTTTGCACAGAGTGGAAGGAGGCCTGTTAAACTAACCCACTTA
ATAATGTATTTAGTTTTAATAGGGATAGATTTTTAAATTTTAAGGTTTAAAATATTTCTA
CATATGAATTCCAAAATGAATTTTTGGTAAGTAGTGGCTCTAATTCCTGGAAATGTACCT
GCCCGGGCGGCCGCTCAAGGGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnATC
CGTCACAATTCCAACAACTACGANCCGGAAGCATAAAGTGTA

Sequence 5183

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TCCCTAGCACAATGCAAGTTTTTAGAAGCTTTTCTTATTCTACTTTAAAACTCAATGTAA
AAATCATCCCTTTACCAAAACAAAACAACANTACAGATAAGAGCTAAATTACAATTTAGG
GATTAGGAGATAAGAAGAGAAGCAGGTTCTCTAAATCTGCTTTAGAATTCTCTTTCAAAT
CTGTCATAGTCTTGAAGCAAGAATAANGAAAACAGAATAATTTCCCTTTCCCCACTTTAG
ACAAAGTAAATTTATAAAAAACTT

Sequence 5184

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCAATAATCACCTCTGACTTTCAGATTTAAA
TTCAGTGCAATTGACAAATGCATCACTAAAGGAAAATGCAGCTTAAAAGATACTCAAAAC
ATTTGTGTCTATTCCCGGGAGCACATTTTAAAATTATTGCACAGATTTTTTTAATTTTTA
TTTATTTTTTTTAAACAATAACAGAGGTCAACCACAGATGTGGACCTCCAGCAATAAAAG
CAGGAATTCAAGTGCCAGATACTCAGCATATTAGGTTTCCTACGTAAGTCACAGGGTAAT
ATGTTCTAAATATCTCTAATGTGATCCAAAACCCTAAAAAGAGCTGGCACAAAACCATCG
TGAATGACTGCCTCTCTTGATGTAAATTTTTAAAAATATTATTACAGTATCATAGTCCCC
ACTAACAACAA

Sequence 5185

CCCTTAGCGTGGNCGCGGCCGAGGTACTCTGACAAATGCTCTTCAGACCTCTCACCATCA
GACACCAGGGGAAGGAGACCCTTAAACCGGAGAATTATAATTCAACAGAAACTGTCATTT
CCCCAGACATCATGGGAGTATTACATGCAAAAACCAGCCCTGCGGTGAGTGGGCTTAAAC
TCAAACTTAATTCTTCAATACAGGACTCTTTACTGATTTGTTCTAAGTTTTCAGTGATGA
ACCCAAATAAGATTGAGCTTCAAGAGACAGGGTTCTGAGAATCTTTGGAGTCATTCTGTC
CACTATTCCTAAGAGAATCAATGTAGATAACAGTCCCAAAACCTCAACAGATTGTTTAAA
AGTGAACAGATGTTATCTAAAATATCAGAATCAAAATTATGTGTAAAACATATCCGGGTG
TATTGTGTATGCACCTATACATGTTTATATATGTATATTCTTTTTTCTCTGCTCAA

TABLE 1A
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Sequence 5186
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAAGCATAAGCATTGTAACAAAAGTGCAACT
TTTCAGCAAATCCTCCCCAAAAGATATTTTAACTCAAAATATCATTAGCACATATTTTCT
CCCTACAAAAATAGCATGTCAGACATCATTAATTGGATGTATTAACAACTATGTGCATAA
GAGCCACCTTGTAGGCTAAGAGTTTAACGTTGTTTAAACACAGCGTTTGAGGCAAACAGT
AGCAACAGCAGCAGCAAATGCACCAAACTGACGAAAAGACCCAGATATTTTCCTCACTCA
TAGTCAGACTGTTGTGTCTCACCCCTTACATAACATCCAAGTGAGATTTCTCACAGTGCT
ACCTTGGCAACAAACTAAAAATATTAGACAAGGTCTTGGTTTAAGCCTTATTAAAAAAAG
CTTTCTTTGNGATTATTCTGGTATCTGGTTTGGTCTCCAGAAAATCATAGACTTGGAGAT
AGGGANGCCTCACAGGGACTTCATTCTATTATCTTTACAGCATTTGGCAATCAAAACTGG
CCAGTTAAATGCTTTCGTTCACTTTTTGAATTTTTACAGAATNTTNGGATTTNTCAGTTT
GGACCTGGTTTTTTGGTGTGGTGGTTTTTGGTTTTGGTTTGGAAAGTTCANTGCACTTTT
TTTTTACAGTAAGAATTACAAAAA
Sequence 5187
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAGCGTGTATCAGGAAACACTTNACGAAN
GGGCAANAGTGGNTTCAATTCTAAGAGTGGACAGCGGGGATCTTCCAAGTCTGGAAAGTT
GACAAGGANGATGACCTTCAGGCCATTAAGAAGGAGCTGACCCANATAAAACAAAAAGTG
GGTTCTCTCCTGGAAAACCTGGAAAAAATTGAAAAGGAACANAGCAAACANNCANAGATG
ANAGAATGATGAGTCAGTAAGAGGAGCANAGCAGCCNCTCCGTGAAAAAAGATGAAGACT
AATGTGAAAGATGGAACTCTGAGGGGGGTGCAGATGACTTNTGCTGAANGAGGGGGNACC
TACTGGGATGATGATGATAATGAAATATCGGGGGGATGNACCNGCTGTAGTTGATCAAAG
GATGGATGAAAAAGAGGCTTGATTGAATNGANAAGGATGGACNAGANACCCGCNCCAATG
GNCGAAGGATTGACNTCTTTAAAGCNACCATAGNNGNNNGTTTTAGAAANTTCTTTAATT
CCCCATTTAAT
Sequence 5188
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GGCAATGGCAGCCCCAGCATCGAAAGTGGAAGAGTGAGTGTCACTGTTAAAGTCAGAGGA
AACAACCTGGTGTTCAGTGTAGCCCAAGATGCCCTTGAGGGGCCCTCTGACGCCTGCTTC
ACCACCTTTTTGATGTCATCATATTTGGCAGGTTTCTCCAGATGGCAGGTCAGGTCCACA
ACCAACACGTTTGCAGAAGGACACGGAAGGCCATGCTAGTGAGCTTCCTGTTCAGCTCGG
GGATGGCCTTGCCCACAGCCTTGGCAACACCAGTAGATGCAGGGATGATGTTCTGGAGAG
CCCCACAGACATATGCCACAGTTTCCCACAGAGGCCATCGANTCTTCTGGGCANGAGTGG
CANCATGGATTGGGGTCACAAGTCCTTCCACAATGCCCAANTTGTCATGGATGGGCTTGG
C
Sequence 5189
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CACCAAAAAGTGCAAGGCAGATTAATACAAAGAGAATAGTGGTAAACATTCCTAGTGGCA
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GCCAATCAATGCTGCAGTCTATTTCCTTTGGGTTGGGAGTCTCCTCAGTATTATCTCTTC
ATGGTC
Sequence 5190
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTC
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TNAAAAAAAAAAAAAAAAAATTNGGGGGGAAAAAAAAANNNNAAANNAAAAAAANTNGG
GGGNNNCNNTTNCCCCCCNAAAAAAAAAANNNANNTTTGGNNNANTTNTTTNNNNAAAAA

TABLE 1A

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AAAAAAANNTTTTTTTTTTTTNNAAAAAANNNGGGGGNAAAANNCNTTTTTTTNCCNNAAA
ANNNNNCCCCNAAAAAAAAAAAANGGNNAAANNNGGGGNAAAAAAAAAAAAAAAANGNGG
NAAAAACCCTTNCCCCCNTTTTTTTTTTTTTAAAAAAAANNTTNTAAAAANATTNANGGNG
GGGGCNNNTTTNTAAAAAAAANGGGGGGGNAAAAAAAAANNNNCNNNTANNTTTTNNNNN
NAGNNNNCCNNNNGGGNNTNAAAAAAAAAATTTTTTTNTTNANNCCNANNNNNNNAAAAAA
AAAAAAAA

Sequence 5191

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GTTCTCTCTGTAGAAAAGGGATGGCCTAAGAAATACAACTAAAAAAACAAACAAAAACAC
CAAAAAAAAAAAAAAAGCCATTTAAAGCCAGCCACTAGAGGGAGTCAGTGCAGTTCCGTA
AAGGTATGCTCAGTGCCCGCTGCCTGCAAGCTGTTGGGGACCCCGGGGAGGGCAAGGCAG
CCTGTCCCTGCCCCCAGGGAACTAGAACATGACAAGAATTCTCCGCACTGTGCCTACCTG
TCCCTTTACCTTACCTCTCTGGCCCANAGTTCTTGGAGGGTTTTTTCTTTATTTTCTTAT
GTACCTGCCCGGGCGGCCCGCTTCGAAAGGG

Sequence 5192

CCCTTCGGCCGNCCGGGCAGGTACATTCCTTATGAGGGCTTTCTTCCTCAGTGTTCTCTT
TAGAGGGCTATTGCTACTGGACTTTCTGCAATGTCTTTGGTGTGCCCTCAGAGCCTGCAA
CAAGTGTATTTGGATATACTCTATTTGTAAAGTTTAGGCCTCTAAGAAGGCCACAATGAA
GCAACTAAAAATCTGATGATTAAGGGAGTCAATCAANCTGATGCCATTTTTAAGTTTA

Sequence 5193

CCCTTAGCGTGGTCGCGGCCGAGGTACATNTTNACATAACATACTGAGAATGCGTTNNTG
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AATCTAATAATGAAGAAACTTCAGACNAGTGAAAATTGAGGAGCATTCTATGATGCAGCT
ANCCTCTGCTCTATAAAAAGTCNTAAAACACANGGAAAACTAANAAATCTTCAAGGTTAA
AGGAGACTAAAACCCCATGACATCTAGATGCATGGTAATANATTATAATATGATGATAAT
AGATCCTTGGATTACCATTATGGTAATAAGANCCTTGGCTCAGGGAAAAAAAATTCACAA
AGGGTGTTTTGGGAGACAGTTGACAAAATTTGAAAATGGATTGTATGTTACATAATATTA
TATTA

Sequence 5194

ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACATAATAATAACAAGCC
CTGGAGTTAGGAATGAAGAGGACCAGCACCCAGAATTTCTACNGNGTTACCTGNAATATC
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GGGAAAAAAGCAGACAACCAGGCTTGCCTGTAAGAGGGAACAGATGTCAGATTTAATAAA
NGATTTNNTTGTTGNCTTTATAAATATATTCATANAACCAAAGGAAATCATGGTTGAAGA
AATAAAGGACAGTATGGTGACAATCACATCAAATAGAGAATGTATGTAGAGATAGATTAT
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AAGAAAGAATTAGTGAACTTGAAGATTCTAGATCAATAGAGATTATGCNATCCAAAGAAG
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CTNCAACCATCCACTTAATATCGGAAGGGAAAAGAAAGAGANAAAAAGGGAANAAAA

Sequence 5195

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NTTNGGGNAAAANNNTTTAAAATTNNNTNNGNNTAAAAAANNNNNNTTAAAAANNNNAAA
AATTTTNNAAAAAANGGTTTTAAAAATTTTTAAAAAAAAAAAAATTTTTTTTTTNNNNGG
GGCCCNCCCCNNNAAANNNNNNTNNNAAAAAANNCCNTTTTTTAAACTNAAATTTTTTN
AAAAAAANTTTAAAAAANNTNNAAATTNNNNNCGGNAAAAAAAAAAANCNNTCCNTTTTT
AANGGGGNCNAAANNAAAATTTTTTTTNNNTTAAAAAATTTTTNAAAAANCNTTTTTTTT
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Sequence 5196

CTGCCAATTCGCCCTTAGCGTGGTCGCGGCCGAGGGACTAACNCTATGACTACAGTNTTG
GTGCCACTGNCTTCATGCATGCTAAGGCATCAGCAGTTTTCCCATCTTGCTTTTGCACCA

TABLE 1A

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TCAGGACCAAATGACAACAAATTTGTGCCATAATGTATTTTTNTGAAAATAGTTTTAAAC
TCTNGNCCACAACAAGGGTCTCAAGAAAGGAAAATCCCTGACCCACAATGGTGGGCTCAC
TAATCCATTTGCAGAAAAAATGGNAGCTGGCTTGNGCTACNAGGNATTTCNTTTATNGGA
AAAATTGATTTTANGAATTNTNCTCCCAACANGGANAANGAAAACTTTCCCTTTAGTNTN
TGCAGGCNTNTTCTGTNAANAAAGAAACGGGNNTTGNTTTTTTTANNAAAGGNAAAA
Sequence 5197
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTT
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NACCTAAATTTATGTTTTTCTTAACCTTCACAATATTTANAAATCANAGCACTTCACATA
GGTCTACATT
Sequence 5198
TGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACTTAGGCGTTCATAAAAATACAG
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GACAAAGACTTGAAAAAGGTGGAGAAGCAAACCTTGTGGGTATTTAGGGTAGCAGTAGTC
CAGGCAAGGGGAACAACTAGTGCAAAGGCTCTAGGAGGCAATGTGTTTGAAGTGTTTTAA
GAACAGTAAGGAGGCTAGTATGGTTAGAACAGAATGAGCAAAGGGGGCAAAGTGGTAGAA
GGTGAGATCAAAGAGGTAATGAGGCCATTGT
Sequence 5199
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CCTCTGTATAAGACCCCCTATTTTCCTCATCTCGTTTTAGCTGGATTTTTAATTTTGTAG
AACTACTGCCTGATCCTGAGTTAAATCCATTATTAAGCTTTGCCACATAGAGATTGTTAT
CGTTGTCATGGTCTTTGCTTAACTTGATGCTTATTTTGGAAGAGTTCATTCCATCATTCT
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CAGAGTTATTTTCTAGGATTAACTGTGCATCATACCTTGTGATTCGCCTCTTCTTTTTAC
TTTTTGCAG
Sequence 5200
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GGGGGGGGGGG
Sequence 5201
CCCTTANCGTGGTCGCGGCCGAGGTACGCGGGTGCCTGACTTTGGGAGGCTGAGATGGGT
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GNNNGAGGCAGAGAATTGCTTGAACCTGGGAGGCGGAGGTTGCANTGAGCTGAGATTGCA
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GAAAATANNGGNCNNCGCTNNGGNNNNAAANNNGGGGNAAAAANTNGGACCCNCNNNTTG
AAATANAAAAAACNTNATGGCNTGATTNAATGCNAATTNNNCTNNCNTTNAANNNNAATN
TNNCTCTTGGGNTT
Sequence 5202
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TAAATACATAGTATTCCTCAGTATCTATTCCAAGATACTGAGGTCATAATCAGAAGCTAA
GCTGGGTGCAGTGGCTCATGCCAGTTATCCCANCACTTTGGGAGGCCGAGGTGGGCAAAT
CATGAGGTCAGGAGATTGAGACCTTCCTGGCTAACATGGTGAAACCCCATCTCTACTAAA

TABLE 1A
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AATATAAAAAATTANCCAGGTGTGGTGGCACGCATCTATCAGAGTCCCAGCTACTCAAGA
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GCCACTGCCTTNCNCCTGGGGTGACAGAATGAGACTCCTCTTNAAAATAATTNNTTAATC
ATAATAATNAAGTNAAAAAATTAAAATAAAAAAAGTTAATCANAAGCTTAAAGTAAAAGT
T

Sequence 5203
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CTTTCATGATCAAAGCAGTCTCTTCTTTTTTGACAGCTGAAGAAGCATCGGTAGGGAATC
CAGAAGGAGCGTTCATGAAGGTGTTACAAGCCCGGAAGAACTACACAAGCACTGAGCTGA
TTGTTGAGCCAGAGGAGCCCTCAGACAGCAGTGGCATCAACTTGTCAGGCTTTGGGAGTG
AGCAGCACAGCTGATTTCCAGAGGATGGAAGAAGTCAGGAAACTTGGGAAACCGCTGCTG
AGGTCCTTGCAGCCCCACGGTCCCCAGGCTGGTGACTGGTGGGGGAGTATGGAGTCCAGC
TGACCACCAGAGCCTGCACACCTGCTGCTATGGGGGAGGAAAGGATGACTTCTACCTNCT
TTCCACATTCCAAATTCCACATGACTACATTTTATTGGCAGCACCCCGCTGGCAAGTGAG
CCTTGATGTGTGCTTCCTGGGCTTCTGGCACCTTTTGTGTTCTGGAAAAAA

Sequence 5204
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAAACTCTAAGGAATGCTTTTTCTTTGAAA
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TGTATGTGTGGTTTTGATGCCAGCAATGCAAACACCAATATATCTATTAANAAGTGATTG
AATTTAGATTGGAAAAAATAAAATAGTTACATGTAAAGACATAAACTCTTTCCTTCTTAA
ATGTGATTTTCAACTCTATGATANAAACTCCCTCTAAAAAACAANCAGGGCAAGAACAAA
CTTACTTGTAATGGGTGAGAGAAAATAAGCAAATCTCATTGGCTCATTCCTGTTTTTAGG
AAGTTGCAGTGGGATTAATGTCAATTGGAAGGGATGCAGCAAGTTTTAGAGAAGGNGTTN
GGCACTAACACTGCTTGTTTGGCAAATCATCATCACTGAGGTATTCCACCCAAANACTTT
TTCA

Sequence 5205
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AANTTAAAACNNAANAANGGNANNANNTGNNNATNNNNNNAAAAAAAAAAAAAAAGAAAA
ANAGGNTTTTTTTTTTCNCCAANAAAAAAAAAAAAAANATTTTTTTTTTTAAAAANGGGNT
NNNNNAAAAAANNAANAAAAAAAANNNCNTTNTNTTTAANANNNNTNNNNGGGGANNNTA
AAANNNAAANNATTTNNNNNNTTTTTTTTT

Sequence 5206
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TTGGCCGTTNCCGCTGGACCGAGNGGCAACCCCAACAACCCTATCCTAAAAGNCTCCTTT
GACACCTTGTNAGCTAGGTTGCTTGCCCCACCGCCTTTNGNCACCCGTTCCTGAAAANAA
AAAANNNCGGCCGGTCTCTTAAAAAAGGCGGCCGAAGGTTCCTTGGGTTGGACCTTTTGG
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CGGCCCCATGGCCGNTANCNTTGGGTAAAAANAAATTGGTTTNCTTTTGNGGAANAAAAA
AAAAAT

Sequence 5207
CCCTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT
TTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCAT
TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT
TGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGCCTG
TGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCCCTG
CGTTTAGGTGTTTTATTGGATATATTGGATTTGGTTATATACCATTATTTTTAATACATA

TABLE 1A

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CACATGCACGCTTTTTAATTACATAATGTATATGTACCTCGGCCGCGACCACNCTAAGGG
CGAATTCCANCCACTGGCGGCCGTAC
Sequence 5208
CCCTTTCNAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTN
NAAAANTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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NTTTTTTNTNNTNTNNNTTNTACNNTTTNATCCNGGTNGGAAAAAAAAAAAAAAANTACCC
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NGGGTNGGNTNGTANNAAAAANAAAGAANANNCNNTTTNNTTNGCCTTTNTNNANATTTA
TCCNNNNANNAATATNTNNATANAAAAANNAANGNGGANNNCNNNNTTTTTTTTTNTTTT
TTTTTTTNNNATTAAANANAAANAAAAAAAANAAAANANTTTTTNTTNTTTTTTTNNNNN
NTNTGGGGGGGGGGGGGNGNNNAATATTTTNTTTTTTTTATNNNGGGAGNANGGGNNAGA
TANATATATNANNATTATTTTATTTTTATANAAAAA
Sequence 5209
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TCAGAGCTTGTTGGGCATGAACATCAAACTTTTGTTCCACTAATATGGCTCTGTTTGGAA
AAAACTGCAAATCAGAAAGAATGATTTGCAGAAAGAAAGAAAAACTATGGTGTAATTTAA
ACTCTGGGCAGCCTCTGAATGAAATGCTACTTTCTTTAGAAATATAATAGCTGCCTTAGA
CATTATGAGGTATACAACTAGTATTTAAGATACCATTTAATATGCCCCGTAAATGTCTTC
AGTGTTCTTCAGGGTAGTTGGGGATCTCAAAAGATTTGGTTCAGATCCCAACCAATTCNC
ATTCTGTGTTTTACCTCAGTGGTTTTCTAAAAAAAGAAACTGCCCCCCCGCAAAAAAATT
GGTTACTTTTGTTGGACAAACCCAATCAGTCTNAAAAAATGANCGGNGCTTTNTAAAAAG
GTTNTAAATNTCGGGGTNCCTTTAAACAAAACCCCCTGGNCCAANAAGGGAAGNGGNGCC
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TTGGGCCAAAACTGGGGGGCCCNAAAAATTNTNTTNAAACCCCTTTTGGCNNGGTTTTNG
GAAAACCCGGCCTTTTTTGGGTNCCAATTTTNGGGGTTTGGGGGTTNGGGGAAAAAANNG
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AAAAAAAAAAAAAAAAA
Sequence 5210
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CCTTCTCCTTTCAAGCCTGTCTGTTAATTAACCATGTCAGTATTGGCAAGCATTTATCTT
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Sequence 5211
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CCTGGTTTTCTAATGCTGTCATCTCAGTTCGATATTTTACTTTAGAACCTGGAATCTCCT
ACTTAATATATGACCATGACTTTGAAAGGCAAAAGAGGAATCAAGAATAAATAAAACAAA
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GGCTCACTGGGTTTTCTTTTCTTTTCTGTTAATTTAAACTCAGTTATTTTTA
Sequence 5212
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CCCNAAAAAATTTTTTNNAAAAAAAANNTTTTTTNCNANNNCNNNTTTTTTTNNAAAANT
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NNTTTTTTTTTNAAA

Sequence 5213
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ACCAGGATGCTTTTGCATTTACTGAGTTTCTACTTTGTGCTCAGAAGTGTGTTAAGGTTT
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CTATTGTCTCCATATTACAGATGAGGAAATTGAGATTTTAAGAGGTGAAATAACTTGCCC
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TCAAATAA

Sequence 5215
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Sequence 5216
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CAGCATATTGCACAATGATGGGCAAACAATATGCCCTNAGTAAGNGTTTNTTGNTTGACT
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Sequence 5217
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TABLE 1A

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Sequence 5218

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NAATAANCACATNTTAAAAANCNCGTNATTTTTCCTTTTTTAT

Sequence 5219

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TNTTTTA

Sequence 5220

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Sequence 5222

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TABLE 1A
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Sequence 5223
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GACCTTGTAGTAGTATTTCCCAGGG
Sequence 5224
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CGGCCGCGACCACGCTAAGGG
Sequence 5225
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Sequence 5226
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Sequence 5227
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Sequence 5228
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Sequence 5229
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Sequence 5230
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Sequence 5231
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GGGTAGTTCTAACTTTGGGTAATAATGTTTGTCAGCTACCTGATATTAACATTGCTCCAC
GTTCAAACAGCAGTGTTAGCAAGACCTGGGGGAGAGGTAAGCCAAATAAAATATCTTGTC
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Sequence 5232
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Sequence 5233
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Sequence 5234
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Sequence 5235
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TABLE 1A
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Sequence 5236
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Sequence 5237
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Sequence 5239
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Sequence 5240
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TABLE 1A
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Sequence 5241
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Sequence 5242
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GAAAAGGGCG
Sequence 5243
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Sequence 5244
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Sequence 5245
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GGTTTCACCCAGGGCTGGTCTCGAACTCCTGGGCTCACGCGATCTGCCTGCCTCAGCATC
CCAAAGTGCTACCAGCATTACAAACATGAGCCACCATGGCCAGATGATCATTTGGACTTC
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TGTAAAACTTTATTAGAAAATGTCAAAGAAGACTTAATTAAATGTAAAGCTTATACACTA
TGTTCATGGATAGAATGGCTCAATGTCAGAATGATTTTAGTGTTCTCATATTGATCTATA
GACTCAATACAATACTGATAAAAATTCTTAAATGATTTTTCAAGGAAAATTGATGTGATA
ATTTCAAATTTC
Sequence 5246
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAGCCACGATTTGTTCTCTCAACACTCTCC
AGGCTGTCAGAAAAGAGATAGAAACTCACCAAGGCCAAGAAATGCTTGTGCCGTGGCACA
GAAGGAATCAAAGAGTACTTTGTTTTTTTTTTTTTTTTTTTTTTTTTTTAAANAATTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAAAAAAAAAAAAAANT
TTTTTTTTNACCCCCCCCCNTTT
Sequence 5247

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GGTACTTTCAGTATCATTATAAAAATTTTCCTTGTCTGAGTTAAAAACATGTTCAGTATC
TGGTTTGTTGTCGTTTTCACAGTCTACTTTATTTGTATTTAAATAAAGCTCTGAAGGTGA
CTGGCAAGCATATTCTGGGGACCCAGAGTATGAATGAGAAAGAAAGGCATTTTTGAGACT
GGGTTATTTTTGTTCAGGAAATATCTGGACTACTACAGAGACAGACATGCCAGATGCATC
ACTTTCCTGACAATCAGGTGAATCATTTGTCAAATTAGAAGGTTTTTACTTAAGTTTGTT
CTTCCTGTAAGAGTTATTATGTAGTTGCTCTTCCTCAATACAAGCAGTTTTGTAATTTTC
ACAAATTTCACCAAAACTCTGCTTTAACTTATTTGTGATGAATTTTAAAGGTTATTTTTA
Sequence 5248
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGTCAAG
CTGTTCTTTATTTCAGGGAGAGGGCAGGGGAGGGGCTCAGTCTTTCTTGGCAGCAGCTTT
CCTCATGGCGGCCAGTACCTCGGCCGCGACCACGCTAAGGG
Sequence 5249
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGTAATCCACTGTAGTGAAGGCACTAAAAC
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AGTAAATTATTATTGACTGCTTGATAATACCTCTTTGTTCCTGCCTTTCCCCAAGTCCTT
CAACAGAAGTTTCTTCTAGCACTTTGCAGGTCAGTTGAGTGGACTATTTGAGTCCCTCAC
AGTAATGAGCTTGTGTGTTTTTGTCATTCTTTTTTCTTTTTTTGAAAAAACAATAGAGTC
ATTTAAGGAAGCAAAAAGGTCCCTGGGTCAAGATTTTTATTTTATCTTTTATGGTGGTAG
GGTGAGGTGTGAGTATTTAGGGAGATGGTT
Sequence 5250
ACCACTAATAAATTGTTTGCCAAATCCTTGTAATAACATCTTAATTTTAGACAATCATGT
CACTGTTTTTAATGTTTATTTTTTTGTGTGTGTTGCGTGTATCATGTATTTATTTGTTGG
CAAACTATTGTTTGTTGATTAAAATAGCACTGTTCCAGTCAGCCACTACTTTATGACCGT
CTGAGGCACACCCCTTTCCGAATTTCAAGGACCAAGGTGACCCGACCTGTGTATGAGAGT
GCCAAATGGTGTTTGGCTTTTCTTAACATTCCTTTTTGTTTGTTTGTTATTGTTTTCCTT
CTTAATGAACTAAATACGAATAGATGCAACTTANTTTTTGTAATACTGAAATCGATTCAA
NTTGTATAAACGATTATAATTTCTTTCAT
Sequence 5251
CCCTTAGCGTGGTCGCGGCCGAGGTACACCTATATATGTATGTAAGTATATCAACATAGG
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CCAAATGTCCACACAGAGGGGAAGAAAATATTTTTTCAAAAGTAATGATTGCTGTCATTA
ATTTGGTGAGTATACTTTCACAATGAATATATTAACAATAGTTCTTTATGATAAANAAGT
AATACTAGCCATATAACACTGAGGATAAAAATATTTTACATCNTGAAAGGAAAGCACTTG
TTTACAT
Sequence 5252
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CCACTGCCCTGATCGAGCCTTCTTCACCTGCTCGGGAATCTGAGAGGTCCTCACTGTCCA
GTTCTTCTGCGGAATTGGGCAACTGAGTAAGGCCGTGAACTGCTGGTTCTGTCGTCGCCG
TTGTGTCTGTGATGATGGTAAGGATGGTGGTGG
Sequence 5253
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AAAAAAAAAAAAANANANTTNTCNNNNNNNNNNNAAAAAAANGGNNNCCCCNTTTTTTGG
GGGGGGGGGNNAANNNTNCCCCANANTTTTTTNANGGGGGGGGGGNNNNGNNAANAAAAA
ACCCNNTTATNGGGAAAAAAAAAAAANNTTTTTTTTTTTTTNNNNGTTAAAAAAAAANANN
CANAGNGGGGNNNATNNTTNANAAAAAANANCNGGGGGGGNGTTTTTTTNANNAACATTT
TTTAAAANNAAACANAAGNGGGGGGGGGNNGCNNCCANNAAAAAAAAAATACCCCCCCCC
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CCCCNCGTNGGGANATANACACAAAAACATANATNTTTTTTTTTANANGNGGGAGTGTNTA
NAAAACACAAACAGGGGGGGGGGGGGGGAAANAAAAAAAAAAAAAAG

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Sequence 5254
GACTCTAAAAGAAACTTGTTTGTATAATGCTATTCTATNCGNGGNNTGGAGCCCAGGAAA
TAACCAACTTGATNCGTGTTATGACCCATTTTAAGCCTCCCATGATCACAGTTTTTAAAA
TACAATTAAGGACTGGTCCTTTTCTAGGTGACACAAGAAAGGTAATAGCTAGAACANAAN
AAAGAGGGGTCCCCAAAAATGTAACCTTAAAATTTGACACTTGTGCCACTATTGATAGTA
AGCCCNCATGGGATGAANGATGTGGGTTCTCTAAATTGGAAAAAAAGTTCCCCAGTAAAA
AAAAAATAANTTTTTTNTGTCAAGAAATCATATTTATGTGAANATGTGTCAAATACTGGG
TCTTGCGTTATTTCCGGCTTACTTTGAAAAATAAAGTTAAAAAAAANAATAGTGGTTTGG
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NAGCCNTCCTTAAATAAAAAAGGGAGGGGGTNCAAAAAACGTTTTTTCCAAAAACCAAGN
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GGGNGGGG
Sequence 5255
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AGCCTCTGCTCTATAAAAAGTCATAAAACACAAGGAAAACTAAGAAATCTTCAAGGTTAA
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ANACTTTTTTTTTATTCTTAAAAAACCCCCCCCTTTTT
Sequence 5256
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GGTGTACGCGGGGAAAGCAGAAGGTCNCGCTTGGAGGAAGTGGCGGCTTTGAGTCCGGTG
GCCCAATCGCTGTTACTACTTCTCTGAAGCTCCTCTCGGCTGCTTGCCGAGACACCCTGC
CGCCAAGATGCCTCGAATTATGATCAAGGGGGGCGTATGGAGGAATACCCGAGGATGAAA
TTCTGAAAGCAGCGGTAATGAAATATGGGAAAAATCAGTGGTCTAGGATTGCCTCATTGC
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Sequence 5257
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GCATGTTTTGGGATATGAGCACACAGCTTTGAGGAATTCACATTGATTTTATAGAGCCAA
TGAGAACCCCTTAAAAAGATGCCTCATACCTTGTCTATGCAGTTCCTTTGCAGGGTTCCT
GGCCTGTGGTAAGTAAGAGAGTCACCTTCCTGGCAGGCCCAGGAACCACANGTTTTTTT
Sequence 5258
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nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnCGCTCACAATTNCACACAACATNCCGAGCCCGGNAGCATAAAGGGTAAAAGC
CTG
Sequence 5259
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GGCTGGAAGCAGAAACCAAATTAGTAAAATTCACTGAGCTGTGTGAGTCTGGCTCTTTAG
AGGCAAACCTGTTTTCATAGGGCTGTGGACCCCAAGGAATAGATTCAGCAGATGGATCAT
TGTAGCAAGAGTTGTAACAAAATGGCAGTCGTTGGAGTTAAGTGGGAGAGCAGTTGGTCT
AGTTTGGAGCAGAAGTCCAGATATATAGGAAATGTCATGGGGGCTGGAAAACCCAAGTGC
ATGTCATGGA

Sequence 5260
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTCCCCTACCTTGAANAGACATGGTGGTCGT
AGCTTNTCATCTATATGAAAAAGTTTTCGATGTATTGGAATTATTNGGGAATGCTTTTAA
AACAANTTGNAATTATNTCTTTACAAACCAAAACAAGAACACAAAGGTGTGGTGCTTGGA
ACATAGATGAAGGAGCCCTACTTACTGAGCTTAANNTNTGGACTTTTTTGATNCNTGGGT
GTNTGNGTTTTTAAAAAG

Sequence 5261
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CGGAACTTTAAATTGGNAGCTTTCATTGCTTAAAATTTTTGGCATATGCAAATAATGGGC
TCATCCCTAGGAAAGAATCTCAGGGGTATGCTTATTCCCCAATGGGAGGGATGACATATA
AATCTTTTCTGCCTTTACTTATCAATNCACCAAGGGAGCNGTTTTTTTTGNNTATAAGCC
ATAATACTGCCAGGCTGGGTATGACTTAAAANATGTTTATCTGAAAAAAGGCTTTTAAAA
AAAAAAGGT

Sequence 5262
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCTGCTCCGTTGTGCTGCTAGAGCCACAAGC
CTATTAAACTTTGCCTGAAATAAATTCCTATTTGCGCTGGTGTTAATTTTTACTTATGAG
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TAAGCCCCCCGCCAGCCAAACCATCTGAATGGACTTCCTCCTCAGCCAGGGTGCTCTTAA
AATTTAACCTGAGAGACTGGTTCAGGTCATGATGGGAAGTAGGGGTTGGACATGCCTCAT
TATACCTCTCCAGCATTAACATCAACATAAACCCTAAGTCTAAGAAATTTTTACAACCTA
TTCTCTCTGAAGCTGACTACCTTGGAGGCTTCATCTGTTTCATAAAATTTTGGTC

Sequence 5263
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTCAGTCCCTTGTTATTGTTCCGTATATTA
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AGTGAAGTTTCAGAGCAAACAGTGAAGAAATCAGTGTGATTGTAGACAAAAAGTCGGTTC
ACAGAACGGAGCAGCGGGGAGAGGAAGGGAAAAGCTTCATAGTTTGGTGTTTATCACATC
AAGAGATTGGTAAATTTCTGAGGAAAGACAGGCTAATGGGGCACTGAAATGGAACAACTC
CTTTAAACGTGCAGCCTTTTGAATTTTTCCTCAAAACCAAG

Sequence 5264
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AATTGGTGGGTTCTTGGTCTCACTGAGTTCTAGAATGAAGCCGTGGACCCTCACGGCTGC
CAGGATGGAAACTAACTACCTGAAGAGGTGCTTTGGAAATTGCCTGGCCCAGGCACTGGC
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TTACAGGAAAACAGCAAAAGCAAAAGAAGAGAATAGGGAAAAGAAGATCCACCTGCAGGA
GGAATATGACAGTAGCCTCAAGGAAATGGAAATGACAGAAATG

Sequence 5265
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTGA
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ACCTGTGCCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTA
CAGGCATGAGCCACCATGCTCAGCTAATTTTTGTATTTTTAATGGAGGNGGGGTTTCACT
ATGTTCGCCAGGTTGGTCTCNAACTCCTGACCTNAAGTGATCCACCTGCCTCGGACTCCC
AAAGTGCCAGGATTACAGGTGTGAACCACCGAGCCCGGGTAGAACTAAAATTTTAAAGCT

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ATNTNCTTTATTCAAATTTGGGGAGGAATATTATTTTTGAAACCAATGTCATAAANAATT
ACATATTCAGTATTAACAATTTTGAATTTTAANTTAGGCTTTAAAGCCCAAATGGGATNC
CTTTACAACATATTGAAAGTGTTTTGATTGAANCAGACAACATTTAAATTTT
Sequence 5266
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CTGGATTCTCCACCCCTGAGCAAGACAAGGAGCCCCAGACAAAACGCTCAGGATTCCAGA
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AAACAACAGAAACAGGCATGTGGGGAAAACCATAGGTTCAATTAGAAGCACTGTACGCGG
GTGGTATATAATTTTTAAACTGTCTAAAGGGCCGGGCACACTGGCTCATGCCTGTAATCC
CG
Sequence 5267
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GAAANNANAAANTATTTNCCCTTTTTTTTTTTTGGGNAAAAAAANCCNNCCCAANANNAT
TNGGGNTTTNCCCCNNCCCNNNTNNCNAAATNTTTNAAAAGNNNNAAAANCANCCCTTTT
TTTTTAAAAAAAAAAA
Sequence 5268
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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AANCANNNANAAAAAGNCANTNNTTNTNANNNNNNAAAANAAAAAANNANCAGGGGTNAC
ATANNCTNATNCCGGNGAACANNCCCCNCAAAAAAAAAAAAAAGGNGGGGGGGGGGTTAT
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NTTTTTTTTTTTNNCNGGGGGGGGNNNGNNANAAAAAAAAANNNTNNNANTTCCAAAAAA
ANGGGGGGGGGGGCCCCTTTTTTTTTCCCCCNNCCCCCCCGNGGGGGNANCAAAAAAAAA
AA
Sequence 5269
CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTCAGTCAACAGAACCTGATGCAAAGAACAG
AAAAGGGGAAGATGTGGGGGATTCAGTCAGGATGGTGGGAGAAATTGTAAAATTATAGGA
AATAATCACAAACACTTGTGGAAGGCCTGGGGGTTTGCATAAAATGTTGGGCTGAAGGCA
GCTGAATTCTCTTAAAAGCTTAGGGCATAGATACACAGAAATGTAGTTTATCTAAATGAC
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CAGGGTAGGGGGAGGGCAACCAGATTGATTACCCACTGATGGTGTTGACTCAAAGCCTTC
GTCATTTAATATGTGCTGAATAAATGC
Sequence 5270
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TNGGNNNGGNAATTTNTTTTTTGNNNGGNACCNNNCATNTTCNNTNTNTTNTAAANANNA
AAANNTTTTTTTT
Sequence 5271
CCCTTAGCGTGGTCGCGGCCGAGGTACCGCGGGATTGGCCATTGTTGATCAACTCAGTTC
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ACATGGTTGGTTCCCCTGGCAACCAGCCCTCATCCTGAGGCAATCTAGGTGATCTAGCCA
TCAGTGAACTTCATAGCATACAGAAATATACATATCACTTTGAAGATTCCAAGGGATTTA
GGAGATTTGTGTCAGATGCTTCTATCTCTCAGGAAATTACAAA
Sequence 5272

TABLE 1A
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GGTACCGTCACTTGATAAGCTGAAAGGGGTGGATGTTGAATATCACCTAAGTGTCATTGC
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ATTGCACTGACACTAAAGCTTTGTATTTATAACTATTCTGGTTCTTATAGACTATAGGTT
CTTGGGGAACCCTCTTGTTAAGAGAATTTTCCTGGACTCAAATATTTGATTTTCCATAGA
GAAGAAAAATTCAGTTTTATTTCTGTATTAAAGCATTTCAAGTCCCTTGGCCATAAGTCC
TCATAGTAACTGCTCAATTAATGTTTTCATAATCATTGCATAATTATTGCCTTCAGTCTG
TATAAAATGAAAG

Sequence 5273

ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCCGGCCGAGGTACGGTAGTAAGAAACCTT
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CTTTTCAAGGGGGGCAGGAAGGTAATGGTTTGAGTAGCCTTTGTTTAAAAAAAAGACTAA
ATATATTTAAAAGGCCACATTTATATTTTTTTCACAAGAACCACATAATAAATTCCACTT
CTTGACCTGAATTTGGAAATCCGAAATTACTAATCCAGGCCAGGTGTGGTGGCTCATGCC
TGTAATCCCAGCACTTTGAGAGGCCGAGG

Sequence 5274

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTCCTTTN
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GTTTAATTANAANGNAAAAANNTTGGNTGAAAATTATGNANANNGNNNANTTNNAAAAAA
AAANNTGGGGGNNCTTTTTNTTTTTTTTTTANNNTTTTTTTTNCTNCATANAATGANAAT
TTTTTTTTTTTNCNNNAANAAAANNNATTTTTTTTTTTTTTAANNTNACCCNTTTTTTT

Sequence 5275

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GTCTGAGTCACAACTATTTAACTATACTGCTATCGCTTGAAAGCAGCCATTGAAAATGCA
TATACAAATGAGCATTGCTGTGTTTCAATAGTATTTTCTTTATAAAAACTGTGGGACTGC
AGCTTGTTGACCCTTGCCATATGAGAAAGTGTAAACTAAAAATAGAATATAGTATTAAAA
ACATGATATCAGTCTTCAAAT

Sequence 5276

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NAATTTNTTAAATTTAAANACTAAAANGTTANTTTTTNTNANAAAAAAAANAACTATNTT
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GNCCTNGGGNANAATTAANGTTATAAAGTTTAAANACNAAATGGGGNGGGGGGCCTTAAA
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TTTTTAACTTGGGAAGAATNAATTTTTTGGTTAAAATAAAGGTNAAACAATCTTANNCCC
TCAAATNGGCAAGTCCAATGTTTAANGTTTAAACCCNCCCTTAAAACCCCTTT

Sequence 5277

CCCTTTCGAGCGGCCGCCCGGGCAGGTGCGCGGGATCTGTGTCTACAGATATTTACATGA
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GGAAGGTGACTCTCTACTTACCACAGGCCAGGAACCCTGCAAAGGAACTGCATAGACAAG
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AAGCTGTGTGCTCATATCCCAAAACATGCCATTTTAGTCCAAGTCCTAGAAAATAACCAG
TGCCTCCAATTGTTTCCA

Sequence 5278

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NTNTTTTTTTTTNTTTTTTTTTTTTTTTNNNAAAAANAAAAAAAANTTTTTTTTNGGCNNT

TABLE 1A
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NAATTTTTAAAAAAAAANNTTNAAAAAANATTNTNTNAAANCCCNTTTAANAANNAAAAA
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Sequence 5279
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ACTGGATTAAATAGCATTAANGAACATACAGTTGTAAAATGTAGAACCATAGAAAATTNG
CATTTTAAAAAGCATTGCCCTTTTTAAAA
Sequence 5280
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TAGAGTGCTTTGAGACTAGAGAGAGTGCTAGTGCTCTAAAGTGCTTAGAGACTAGTAGAG
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GCANGTGAGCCTGGANACCATTNCCANTTGCANTCCAGCCTNGGGGGACANAANCAAAGA
CNNCATCTTAAAAAAAAAAAA
Sequence 5281
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GAACCCACCNNNGGGNGGGGGGGGGNNTTTANAAAAAAAAAAAANNNNNNNTTTTNTANN
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Sequence 5282
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Sequence 5283
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NAAATGGTACCTAAAAGTCCTCGGCCGCGACCACGCTAANGG
Sequence 5284
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGAANANC

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CNNNCTTTANAAANNNANTNTTNTNANNNNNCCGGGGNNNGGNTNGAANCNNAAAANCCN
TAAANNNATTTNANATNTTTTNAAANNAANTTNTTAAAAAAAAAAATTNTNAAAANATAN
TNGGGGNGNCAAAAGAATNTTTNAAAANAAAAAAAAACNNNNCCCAAAATTTTNNNTTTT
AAAAAAANN

Sequence 5285
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GAAGCAGGTGCCCCGTGTGTTGCTCTGCAAGTCCACATGGAGCAGGATTCCTTATTTTGT
GAAGAAAGGATTTTTAGTGCCACGTGTGTATTTTTAACACATTTCCAAAAGCATGATTTA
TTCAGGATTAAGTTTATTCAGTAGAAATTTCCAAGGTATTTTTTTAAGTGAGGCACCATC
CTGGATGCTGGGGAAGAATCTTTGTTGGAATATGACCCCGCGTACCTGCCCGGGCGGCCG
CTAAGGG

Sequence 5286
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTACCTGGTGTCCTTGTGGTCTTTCTCAGGA
TGGCTTCCTTCTCAACTGTGACAAGTGCAGGTAAGATCCTGTTCCATCTAAATTTAAGTC
TGGGTTGCTGGGATTAGGGTTTCTTACAAGTAGGGAAAAGCTCAAAGTATTCTTTCTTGT
GTTTGTTAATGTAGATGATTCCTTAGTGCTCCTTGGCTCGAATTCTCTGCACTAGGTGAG
GATTGCTGACAACAAGGAATGAGAGATTGATGTTAAAGCTATTGAATTTGATATGAAATT
TAATGTCCTGGAAACATTTGGTAGGTGGGAGGGAGGGGGTAGCATATGCAGAGACACTTC
GCCCATGTGTGCTATGATGTGATGCATGCTGTTGGAAGGACTACTTTAAGTTTATTTTCC
CTCTTTANGGGAATGAGCAGGGGGAAGGTTATTAGACTTCATCGGCGGAAGCAGGACAAC
ATATCAGGTGGGGATAGCAGTGCAACAGAAAGCTGGGATGAAGAACTTTCTCCTTCCACT
GTGTTGTATACAGCANCACAAGCACACACCTACAAGCATCACCTTACTTGTNGGAAGACC
AACCCAAAAAGCGGAAAAG

Sequence 5287
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAGAGCCCAGGTCGTTGTTTTTTCCAGCTT
AGAAGCCATGGCGCACCTCCATTTTTGTGCGCTCTCCTAATGAGGTTTTTTTCTTTCGGA
CCTGTTTTAGTATTAATTATTGCTTTATTTTTTTGACCAGTTAACATATTTGAGGGTTAT
TTTATTTATTTTTCGTTTTTTAACGGAGGATTTTGCCTTTATTTTTAATTATTTGGGATC
TGATATTTTTCTACTAGTAGATAGGACTCTTGGTTTGGACATACTACATGGATCAGTAAA
TACCTGGGCACAGGACTTCAAAGCAAACACAGATTCCCCCTCCCCCTTAATATTTAAGAA
TTAAAAGATGATGAGAAATAAGGACAAAAGCCAAGAGGAGGACAGTTCGCTACACAGCAA
TGCATCGAGGTATGAGCTATCAACTTTCTTTCCTTTTTGNCTTTTTTTTTGGGGGA

Sequence 5288
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TGTTTGTTTTTTGCTGTTGCTGCTGGTGCTGTTGCTGCTACTTCAGCTTTGCTGCTCTTC
TTGGAAGGAGTAGAAATGTGCTTGGCGATAAGCGATTGTCTCACCGCTCGGCGATAGGCG
ATGGTCTTACTGCTCGGCGATAGGCGAAAGTCCCTTCGTGGTTGCCAAGATGTGTCCGGA
ATTGGTGGGTTCTTGGTCTCGCTGACTTCAAGAATGAAGCCACGGACCCTCACGGTGAGT
GTTACAGCTCTTAAGGTGGCGCGTCTGGAGTTTGTTCCTTCTGATGTTTGGATGTGTTCA
AAAGTTTGTTCCTTCT

Sequence 5289
TAGGGAGTCGACCCACGCGTCCGGAATAGGCTGCGTTCTCTTGGAACGCGCCGCAGAACG
AGGTTCTGGTGACCCTAGCCGCGTTCCCTCCTTAGTCCTTTCGCCTACCCACCCGCGTAC
CCGACAGACCCACCCCGTCCTGTGCCAGGAAAGCGCTGCCACCGGCACCATGCCCCACCC
ATACCCAGCACTGACCCCGGAGCAGAAGAAGGAGCTGGCTGACATCGCTCACCGAATTGT
AGCTCCGGGCAAGGGCATCCTGGCTGCAGACGAGTCCACTGGAAGCATTGCCAAGCGCCT
GCAGTCCATTGGCACCGAGAACACCGAGGAGAACAGGCGCTTCTACCGCCAACTGCTGCT
GACTGCCGATGACCGTGTGAATCCCTGCATTGGAGGGGTGATCCTTTTCCACGAGACACT

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GTACCAGAAGGCAGATGATGGCCGTCCCTTCCCCCAAGTTATCAAGTCCAAGGGTGGTGT
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TACTTCAAGGGCTGGACGGGCTGTCTGAGCGCTGTGCCCAGTATAAGAAGGGATGGAGCC
GACTTTGCCAAGTGGCGCTGTGTGCTAAAGATTGGGGAGCATACTTCCTTGTTCCTTGCA
TCATG

Sequence 5290
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AAAANCNNGGGGNNAAAAAAAAAANTTTTTTTNNCCCCCCCCCNTTTTNNAANANNAAAA
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TTNAAAAACCNNNNTNNNTNAAAAAAAAANNNNCCTTTTNNNANNGGGGGGGNAAAAANC
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TAAAAAAAATTTTNANNNNAANTTTTTTTTTTNAAAAGNCCCCCCCNNCNCCCNTTTTTT
NAAAAATTTTTTTTTTTAAAAAAAAAAATTTTCTNTTTTTTTTTTTTTTTT

Sequence 5291
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ACATCCNTTCAAAGATTTGCTCTTGACATGTGCTCAGGACAGGCAGGTGTGCCTGTGGAA
CTNAATGGAACACANGCTGGAATGGACCAGGCTGGTAGATGAACCAN

Sequence 5292
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCCAGGCAAGCTCAAAGCCAAGAACAGCTGC
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AACTTGGCATGATTGGTAGTAAACACCCAACTCTTCTGCTGGGTAGAAAGTGAAAAAAGG
AAGTCCCCCATTCTGAATTTTGGGGGGTCACCTGATGGACTGGTTTCTGTCTCTCCTGAC
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TAACTGCTTTTTGCAGCATCAAGANACTCANCANTGCTGCNGATGGAGGTCGGGACACTC
ANACANTCANGAAAAGAGCGTGTGGTTCTTGGCTTATCCCTTTGGGCANGAAATGGGAAA
AAGTGGAAAAGTGCATTTAACATTCTGGCTTT

Sequence 5293
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CAACCACGCAGACCCTGAGGAGCGGGACTGCCCCACAGCACGCACAGACATCGGAGACGT
CCAGATCCTGAGCAGCTTTGTCAGAGATCACTTACCTGATCTGAAGCCCGAGCCTGCTGT
CATTGAGAGCTGCATGTACCTCGGCCGCGACCACGCTAAGGGnnnnnnnnnnnnnnnnnn
nnnnnCGTTACTAAGTGGATCnnnnnnnnnnnnnnnnnnnnnnnnGTAATCATGGTNATA
AGCTGTTTTCCTGTGNGAAAATTGTTTATCCGCTCACAATTCCACCACAACATACTAAGC
CCGGAAGCATAAAAGTGTTAANAGCCCTGGGGGGT

Sequence 5294
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TTTTTTTTTTTAANTTTTTTTTTTTTTTTTTTTTTTNTTTTTTTTTTTTTTTTTTTTTTTT
TTTTAAAAAAAAAAAAAAAAANNANCNTTTTTNANNAAAAATTTTTTTTTTNNNAANTTTT
TTANAAAAAAAAAAAAANANCCCTNTTTTTTTNGNGGNGGGAANTTTTTTTTTTNAAAAAA
NANNNTTTTTTNAAAAANNATAAAAAANTTTNNNNGGGNNNNNANAANTTTTTTTTTAAA
NNANGGGGGCNTCANTTTNTTNNNNNNNNAAGNGNGGGGNAAAAAAAAANNNAAGGNNNA
ANTGNNNNAAANNNCNCCNTTTTTTNGGNNNTNNNNNAAAAAAAAAAAAAAANANNNNCN
NNTTTNAAAAAAAAAAAATTNNNNNNNNNNTNNNNGGAAAAAGGNTAAAAAAAANTTTTT
TTTNTTTTTNGCAAAAANNAANNNGAAANCCCCNNTTNGGGGAAAAAAAA

Sequence 5295
CCCTTAGCGTGGTCGCGGCCGAGGTACAACAAAATTCGTAATAACCTTTTATCATTTTTA
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ATGTTCTGTTCCAAGGGCTTGCATAGAGCGCAAATGTGGTTATAATATAGAACAACTAGA
CATTAATATTTTTAGGATTCAAAAGCATGGAAACCATAAAATGGGCACATTTTACTTGTT

TABLE 1A
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TATGCCAAAACACAAATTTCCAAACCAACCTGTATAACTAAAACAGGGAAAAAATTAAGT
TACAGACTTACAATAACATTTCATGAATTGTAATATTTACAACATGTTAGTAAGAGTCTC
TCTTAACATACAAGCTGATAGCTTTTTTCTTTAATCCTTGCTAAAATTTNCTTTTATTTC
AAATCAAACACTAAAGCATTCTCAAANGGCTTCAAATATGTANTTTAAAACTATTTAATC
CACTTACAAGGTGACTCTNTGNCNNGAACNAAGCAATGGCTGGNTCTACTACATATGTNA
GGTGGNAGGCNTTTTTNAAAATCNTTCAAAAAATGGTTGAATGGTAAAAGCTTGCCCCAA
GTCCATTCAANTTTAAANGGTGGGAATCCCTTNAAGGACCGGGTTTTTGGGGAACCAACC
CCTTTAACTTGGGAAAGGAATNCCTTGGGCCCCAACCACCAAANGNGGGTNTGGGANAAC
TNTGCCTTNAAAANCCAGTTTTTCAAATNTTTCCTGCCTTNCNTTAAANAAAAAAAAGGC
NCCTTTGTAACCAGCCTAAAAAAGGACCGGGCCTTTTTTTTTTTTTT
Sequence 5296
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GAGTTNNACTCTTGTTGCCCANGCTGGAGTGCAATGGTGCAATCTCAGCTCACCGCAACC
TCCACCTCCCTGGTTCAAGTGATTCTCCTGCTTCAGCCTCCCGAGTAACTGGGATCACAG
GCATGCGGCACCACGCCTGTCTACTTTTGTATTTTCAGTANAGACAGGGTTTCTCCATGT
TGGTCAGGCTGGTCTCGAACTCCCAACTTCAGGTGATTCACCCACCTCAACTTCCCAAAG
TGCTGGGATTACAGGCATGAGCCCCCCAACACAGCCTCTCTCCTATTTTAACACTNGGTT
GGTCACACATTCNGNTCCATTCATATCACAGTGCTAGGCTGAGGGACTCAAAGGTGGGGA
CAATAGGGGAATGGGAGAATGCCATGAAAACATGCCCAT
Sequence 5297
CCCCTTTCGAGGCGGCCGCCCGGGCAGGTCCAGCTGGTTCCCAGGCAAAGCCTGTCTGCA
AAGACTGGAATAAACCTCTACTCAGATGTGCAGACATTCACATATAGCTACAAGAATTAA
GAATAATCAGGGAAAGAAGATTTCACCAAACAGACAAACNAAGTGGCCAGTGACTGACCC
TGAAGAGATCTAGAAGATGAACTACCTAGCAAAAAATTTAAAATACCTGTTTTCAAGAAA
GCTCAGCTAACTTCCAGAAAATATAAAGAAATTATTCAGAAATTTATCAGAGAAATGCAC
CAGAGACTAAATTAATAATAAAAGCCCTATATCCTGCAGAGAAAAAATCCAGAGAACAAA
ATGAAAAATTAATACAAAATGGCAACAGCAGAATTGATCAAGTAGAA
Sequence 5298
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTGTATACTTGTTCCATATACTCAGGCAT
TTACCTTGGAAATGGCCTACACTGAGCCACCGCTTGTGAATAATATTGTCTCTATAGGTG
TGCAAGCATTTCCTGGAAGCTATTGAAAACAACAAGTATGGCTGGTTTTGGGTATGCCCT
GGAGGGGGTGATATTTGCATGTATCGTCATGCACTTCCTCCTGGATTTGTGTTGAAAAAA
GATAAAAAGAAAGAAGAGAAAGAAGATGAAATTTCATTAGAAGATCTAATTGAGAGAGAG
GTAACTGGTATCCTTTTCCTACCATAAAAACTGAAAGCAGTATTTATTGTGAAATTCTAA
TACTTACCACTTGGGGGCAATAGCCTTTTATGAAAAAAAAAAAAAAAAAAAAAAAAA
Sequence 5299
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TTTTTTCTTGCTGCCACAACAAATTACCACTTACTTAAAGAACATAAGATTAAAGTGATA
GATTTTAAAGCATAAAATAAAAAAAAAATTATTATCTTACCATTCTGTGGGTCAGACATT
CACATGACTTTGGCCAAAATTTAGATGGTGGTAGACTGTGTTCTTTTCTGGAGGATCTGG
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TTTTTCTTCTGGTAATGAGCATAGGTGTAGGCTGGTGCAATTAATAGTCACTACATGCAA
GAAAGCAGAATCAA
Sequence 5300
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GAATATTTGCCTGTTTTGATTTAGTGAGTTTGGNAGGTGGCGGTGGCCTTTCAATGACAT
ATGGCTTTGAAATTACATCAATATATGCATACAANTGTGTCTNTNNCTTTAGTTCATGCA
TCAAATTAATTNATAAAGGACCCCTGG
Sequence 5301

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CCCTTTCGAGCGGCCGCCCGGGCAGGTACACGGTGAGAAACTCTCGAAGAGGACACTGTT
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ATATGACGGTAATGTTTCTGGCTCCAGGTTTGCAGACAAATTTTGTTCCTCCACCTTCAA
TTAAGTTGTCATCAGGACCCCCTTGCAGTTCTCCACTCCGACTATAGAGCTCCCTTCTCT
GTTCTCGCAGATAGGCGCTCATACTGATGGCATGGGAGGACGATTCGAACTTGAAAAGAG
AATTTTTTGGCCTTTGAGGTTTCTTCTTGGCAAAAAAGGCTGCAAACTCTCGTCCAGTGC
TGGCATAGCTTAGTTGAGCTGATGGTTCANAGGCCGTACCTCGGCCCGCGACCACGCTAA
GGG

Sequence 5302
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGATTACAGGCGTGAGCCACCGTGCCCGA
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TCATCACGTGGAGTATACTTTCATTTTCAGTAAATCTCTGCTTTTGTTGCTTCATTCTTT
CCTTGCTCTGTTTGTGCGGTTTTTTTTTTTTTTTTGAAGGTTAAGAAGTTGTGTTATGAT
ATGTAAAATGATTTTCTGATTGCTATATTTAGATGTGAAATACANATCCACATGTCACCT
GGTTATGCT

Sequence 5303
CCCTTTCGAGCGGCTTTCCGGCAGGTACAGGGGCAGTCAGTGGAGGGCGAGTGGTTTCGG
AAAAAAAAANGAAAAAAAAGAAAAAAAAGAAAAAAAANGATTTTTTTNTTNTNTNAATCG
NAATCGNNANGGGGTGGGATAATTNNAANGGGGGGGTAAAAANANNANGNAANCCGGNCA
ATCTTNAAAANATTNCNNGTNTAAAACNGTNGACCAGGTTTTTAAAAAAGNGTGGGGATA
ATAAAAAANGCGAATAAANGGCNCNNTGTTTGNATTCCTACAACNAAAATAATCCCCCNC
TTTTTTTCATTNTAAACCCTTTAANNGGATTCCAAACNCACCTCNAAATNTGGGCNGGAC
CTTAAAAAAAAAACAAATTTCAGGNACCCAAATNTTTTTCNCANGG

Sequence 5304
TCTCNAATCCCCTTACGNGCCGCGTGACACATCTGAATAANAAAAGAGTGNCATTCCCCC
ANACTNAACTGTNNTCTGTTGTCATGTCTTTTTAAGATGGAAAAAANGCTTGGCATCAAT
ACTCTGTGGCATATTAGATACTGGACATCTAACATCAGTGNGTGCCATGCCAACAAAACA
CTTCGGGGAGTGCTATTTTAAAAANGTTTATGTGTGCNAGGCAGNTGTANAATGATTTAC
TGCNNAATCAANCCCCTTTAGGCTTACGCCATNTTCTAACTATCTAAAAATANNNCTGGA
TAACAATANGTGTNCNAATGTGNNTATTCTGATCCATAATTGTTTTTTAAAGAAAAANAN
TGCATATCANAAAGAGTATTAANNTTTGCGAATTTAATGCANATTANCTTCNGACTTNCT
TANCAATACTTGATTCATAGGTNNGGCTCCANTACATTTTTGCTCTTTATTNCAAGAATT
GCAATTNTGCCTCNAAACAGNCATTTTTTAAAA

Sequence 5305
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTCATGAAATTTTGTGGTCTTCCTGACATG
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CCTGGAGAAAAATTAATTTATATATTTTATTAATTACATAAGGACATTGTTATTAGCTAA
GCAGAGTAAGTAAATCGAAATAAAACTTTAAAAATGCCTTTATGGAGAGAATGACTATCT
CTGAAAGCTTGTTTTTAATGATGATAAAATTCATGATCAGAATTTGTTTCTGTTTACTTT
AATTCAGGGGTCA

Sequence 5306
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCAGACACTGATATTCAGTGAAAGAGCAGGG
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ATTCAGCACAGATTTAATGACAAAGGCATTGAGTCAACACGTGTGTGGTTAATTAATCTG
GTCACCCTCCGCTGGAGAGAGCAGTCCTATGAATGATCAAAAGCCAGTCTTAGGACCACA
TGTGTAAACAAGCTCTTTAGATAAACTCCCTTACATTCCTTTTTACCTACTCTGAGCTGT
TAACTCAAGG

Sequence 5307
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GGAAGGCTGTAGTGTCCGGGGCCNAAGCGGACAGGGAATTGGAGGAGCTTCTGGAAAGNG

TABLE 1A
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CTNTTGATGATTTCCAATAAAGCCAAACCCTCCCCANCTTTCCNNTTTTACCACCACGGC
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TTTCGCTTCCCAAAGAGAAGTTTTTCCAGGAAACTATTCCGACAGTTGAAACTGGGNTTT
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ACCCCACCTGGTNGGAAGCANGTTCCCNAAAAGCTCTTCANAAGGCTTNAGGGGAAAATT
GGGCAAGTGGATATTGACCTCCCCAACAAAGAAATTTCACTTTCTTTGCCCTAANAGGAA
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CACCATTTTCCGNAAAGAAANAAACTNNCNCNAAAGGGCCATTGGAAGGGGCTNGGGCAN
TGGNANCNAAAGGGGGATTG
Sequence 5308
CCCTTAGCGTGGTCNCGGCCGACGTACACTGGGTGAGAGNCANNCGTTCCTCTGCCTGNC
CANTCANNGGNAACACCCNGAANCTGTNTTGTNCTTTGTANGAGCCNCAAANAGTNCACC
TCTATGAAAACTNANTGACAAAATCCCTGAACAGGAANCANNCNTCNTTANTCTATCTTT
ATTAAGANCATGATGATCCTCTTCAATTTGCTCA
Sequence 5309
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTAATCAGTCTTTGCTAAACAGCAGCTA
TTGCTATTCAATGGAGACGGTGGCCACCATTTCCCCTGCATCGCTCTCCTACGTAATCAA
GTCCCTGATGGACTCTCTTCCCATAAAAATCCCTGTGTCCTAAAGTCATGGCGTGCTCTA
TTTCATGGCATTTGTAGAAGCACAGCAGCACTGTGCCTGTCAGGAAAAGTGTGTGCTAAC
TGCAATAAGCATGATGACTGCCATCACGGTTTTGTTATTCTCTGTCCACCTCCATGGTCT
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AAGAAACCCTCCTCATCTAATGAAAGTCAAGCCCTGTCATCTTACTGATTCTTTCCCAGA
CCACAATGAAAGGCCTGTAGGGAAGGCACATGAAGAAATTTCAAAGTTCANGTTGGAAGT
CATAAAAACTAGCCT
Sequence 5310
GATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCAACGTTGACTGT
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GATGGGCATGTGAAATGACATCTCAAATAAAGCTGGTTAGTTAACCCCACTTCCCCGTTT
CTCTCTAAAGAAAGGGAAAGAAGGGAATCANGGAGCCTGTCCTCACTCTTGTTCTGGAAG
GAAATGCCATGGGCTATTACCCAACATAATGACTAACAGAGCCCCTTTTATTCCGAGAAT
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TGACTTTGCCCCTCTGAGCCTTGGTTNCCTCATCTATAAAACAAGTT
Sequence 5311
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCACCAGATGTGTCTGTCACTTCCCTACATC
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GCTTTCGAATAGAAATACAATGCCAGACACATAAGTTGTTTTAGATTTTCTAGTAGTCAC
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Sequence 5312
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GGTGAAAGCTAATGGCCTTCTCAGGTCTTTTCTGANCACACATACTGCCCTGAGCTGTGC
ACTTGGCTTTCTAGTTTCTCATCCACAATAGCTTTTCAAAAGCTCCTATTCCTCTACAAA
AACTCACTCTACAGCTTTTCCTCTCAGGCTTTCAATATCTTATTGNTTGCCCTGTTTTTT
TTTTTCTTTTTTGGGTTTTTTTTGGTNGGTTTTTTGCCCCTGGGGGGCAAGCCCTTTGGAG
AAAGGGGC
Sequence 5313

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CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGCTTTCCTTATAAGGAATCAAACTTGA
CTTACGGAGCCAATAAAGCCCTTGGAAAAACTGGCCTCATATTCTGTATACACAGTCCCT
GTAAGTAAAGAATATCACTTTTTGACAAGTGCAGACGCCCCAGGTTTATCTTGGGCCCTC
AAAAGGAGAGGAAATTTCACCCAACTCATGGGTATTTAATGGCATAAATCCATGGCTCGG
CTGGGTTTTACGGGTTTTACAAAGTCTTATCTGAGATTCCTGCTATGGAGCAAAGTTCCA
TCAGAGCCTACTTAAAA
Sequence 5314
CCCTTAGCCGTGGTCCGCGGCCGAGGTACCTTCTTTAGTAGAGACTGGGTTTCACCATGT
TGGCCAGGATGGTCTCTATCTCCTGACCTTGTGATCTGCCTGCCTCAGCTTCCCAAAGTG
CTGAGATGACAGGTGTGAGCCATCAGACCCAGCATTTTTTTTTAATTTAAATTTAAATTT
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CTACCTTCCAAGTTCAAGCANTTCTTGNGCCTAACCTNCCAAGTAACTGGGACTACAAGG
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GNCCANGGTGGGNTTAAAACTCCNGAANNTNANGGNAATCCACCCCNCTTGGCCCTCCCA
AAAGGCCNNGGAATACCNGGGGNNNNCCNCCACACCCCNNNTNTTTTTNNTTNCNNTTTT
AAAANNAAAAGNGGGGGGGGGTCNAAATTNNNACCCCNGGNNGGNTTNAAACTCCNGANN
TNAANNAACNTTTGGNNCAANCCCNNTNCNNNTTNNGGNTTTTTANAAAAAAANNNNNCT
TTTTTNTNTNNNNNCCCCTGNNAAANGGNNTTCCCCNNCCCCNNANTGGGGGGCCNCCNC
CCCNGGGNANNGNNGNCCAAAAACCTTTTNNNAAANAAAAAAAAAAC
Sequence 5315
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGATGCCTCCATCCTTCTCTGGAAACTGCAGT
TCGACGACAATGGGACATACACCTGCCAGGTGAAGAACCCACCTGATGTTGATGGGGTGA
TAGGGGAGATCCGGCTCAGCGTCGTGCACACTGTACATATGCTGTTACCAGCACAAACGA
GTCAAATTCAGCCACAATCACCCGGCCTTCCTGATCATGCTCCTCCTCGCCTATGCCGTA
AGAAACTTTGAGTGGGCACTGGCGGGAAAGCAGGCCCACGCCACTGTACCTCGGCCGCGA
CCACGCTAAGGG
Sequence 5316
CCCTTAGCGTGGTCGCGGCCGAGGTACCTACTTGAATAAAATACTTCTGGGCAGTGAACA
AGGAAGCCTGCAGTTGTGGAATGTAAAATCCAAGTAAGTATTTTAGTTAGAAAATAATAT
AGCTGTCACCTTATCCTCATCTACTACTTCCTAATGTATACTTAAGTCTCATTTCTCCCT
GCCCTTGTATATTTATTTGGAGGGTTGTCTATAAATAGCAGTTGGTCCCCTGTATCAGAG
GAGTCAATTAACCTGGGATCAAAAATATTCAAGGAAAAATA
Sequence 5317
CCCTTAGCGGCCGCCCGGGCAGGTACCTAAGAGAAAAATAGGCTCAGTTAGAAAAGGACT
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GCCCCCGNCGCCCAGNCNTTCAAAAGGNNTTTTTNTTTTCTGNNTATGNTNGAANCCTTT
TTACAATTTTAAAAAAAATGATCTGTTTTTGAAGGCAAAATTGCAAAATCTTGGAAATTT
AAGAAGGTNAAAATGTAAAGGAGTCAAAACTNTAAATCAAGTATTTGGGAAGTGAAAGAC
TGGAAGCTAATTNGGCATTTNAAATTCACAA
Sequence 5318
GGTACACATGAGGAAATTAAGAATGAGAGAGGTTGAGTATGTCACCCAAGGTCAAACAAC
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CAGAACTATAAATGAATCTGTTATTTATTTATTTATTTTTTGTTTGAGGCAAGGTCTCAC
TCTGTTGCCCAGTCTGGAGTGCAGTGGCATGATCATGGCTCATAGCAGCCTCAAACTCCC
GGGCTCATGTGATCCTCCCACCTTAGCCTCCCAAGTAACTGGGACTACAGGTGCATGCTA
CTACACCTGGTTAAGTTTTAAAATAAATTTTGGTAGAGGTGGGGGTCTTGCTTTGTTGCC
AAGGCTGGTCTTGAACTCCTGGGCTAAAGCGAATTCTCCCACCTTAGCCTCCCAACCAGC
TGGGGACCACAGAACATGTGCCACCACACCCAGTCTGATTTTATTTTTTTTAACAGCTCA
AAAGAGGTAAAAANTGAAAAANAAAAAAAAA
Sequence 5319

TABLE 1A
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CCCTTAGCGTGGTCGCGGCCGAGGTACTCAGCAATAAAAAGGAATGAATAAAAAGAATGA
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ATCCTGAAAGGTTACATACTGTATGATTCCATTTATATAATATTCTTGAAATGACAAAAT
CATAGAAAAATGGAGGACAGATTAGTGGTTGCCAGGGGTTACGGATGGTGGTGTGCAGAA
GACAGGGGGGAGGTGGGTGTGATTATAAAAGGGCAACACGAGAGATCTTGTGGTGTTGAA
ACTGTTCAATATCTTATAGGATACATAAACTTACCTAGGTGATTACACTATANAATTATA
AATTATATAGAATACATCATACCAATATTTC

Sequence 5320
ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGGTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTNNAANNCCCCCNNTTTTTNNNNNTNNAAAAAAAAN
NNNGGGGGGGGGGGGGGNCCCNCCNAAAAAAAAAAAANNNNTTTTNNNGGGGGGGGGNA
AAAAAAAAAAANNNNNNAAAAAAAANNGGGGGGGGGNAAAAAAAAAGNACCCCCCCCCCC
CCCNNNGTNNAANACAAAAAAAAAAGGGGGGGGNANCNNNNNNNNNNNNAANAAAAAANN
TNTTTTNTTCCCCCCCCCCCCCCCGGGGGGGGNAAAAAAAAAAAANCCAGGNTTNNNNNA
ACCCNAAAAAAAAANAAGCTNTTCTTTTTAAAAAAAAAAATTTTTTTTCCCCCNCCCCCC
CAANNNCCNAAAAAAAAAAAAAANGGNGNGGGGGGGGNAANNCCNAAANAAAAAAAANNA
ANGGGGGGGGGGGGG

Sequence 5321
CCCTTAGCGGCCGCCCGGGCAGGTACAGTGTTTATAAAGCCTACAGTAGTATGTAGTATG
TAGTAATGTCCTAGGCCTTCACATTTACTTACCACTCACTAATTCACCCAGAGCAACTTC
TAGTCCTATAAGCCCCATTCATGGTAAGTGCCCTATACAGGTGGACCATTTTTTATCTTC
ATTTTTTTTTTTTNAAANGGAGTTTTGNTTTGTNNCCCAGGNTGGAGTTAAGNGNTAANT
GNAACCTTTGCCTCCNGNATTAAAAAA

Sequence 5322
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGTCACCACTATGCACCTCCGGAACTTTTT
CATGATCCCACACTAATCTCTGTGCCCCTTAAACAATAAATTCCCATTCCCTCCTGCCCC
CTGTGACAAAACGTAATCTTTGTTCTACTTTGTCTCTATGAATCTCACTAGTCTAGGTAC
CTCGGCCGCGACCACGCTAAGGGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnNNNANNNANGG
ATCANAANTGCACTGANAAAATGATGGCTCTTGTTGCTGAGCTGTCCATGAAACAAGCCC
TAACCATTGAACTCNAAAAGGAAGTCAGGGAG

Sequence 5323
CCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTNGNAAAAAATTTTTN
AAAAAAAATTTTTTTTTTNAAAANTTTGGAAAAAANTTTTNAAAAANTTTTNAAANTTTT
NAANNNANAAAAAAANTTTTTTTTTTTAAAAANNCNTTTNTTTTTTTTNANAAAAAAAAT
TTTNANANNNNCNTTTTTNNNNAAAANTNCCCCNNCCCCCTTTTTTTT

Sequence 5324
CCCTTNGCNTGGCCGCCGNNNACGNACNCNGNGNNNCTNANACTAGACNNNGAATCTNTT
AATGGTTTTCTNTCNNCAACTCTAACCCCTTCACNGCATCCTGGANAGCCNNCAATTTTN
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NNTNTNCTTAATNNNAAATCANNANTNTNCTGTGANANANNNAAANTTNNCTTTTTGNNC
NCNCNNNNNNNNNTTNNCCNGATAACGTATCTCTGGAANNGTGCTCTCTCCATTTATAAT
AAAACTACCCATGCTATGACTACNGACATCANTGGACGGGCAGGNTGCTTANACCAGTGC
CTGACATATATTTTCGTNACCACGGTGCCGGGAGTCCATTCTGGNGGGCGCAACATTCCC
TCNNGGGNGGGTCGTATTTNCAGAAATGGATACNTTGATTCCCCTGATTGCTCTNNTTCA
CAGAACTNNNACNTTTCCAACCTACNCAAAGAAAANGGGCCTTCCCGAAAGGAAAAGACC
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TCACCCCTG

Sequence 5325
CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAGGCAGTTATAGCATTATTAAGCAGGTCCA
GTGGCAAAGCTGAAGGGGGTAGCACTGAAGGACTCACAGCTTCTGTGAATTGTGGCATGA

TABLE 1A
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CAATGTTGTAGTGGATGCAGAACCCTGGTTCAGAAGGAAAATATTCATCAGATACAAATC
TTATCCTAATTTGATTTCCTTTAGAAATCTGTTTTCCTGGTACCTTATATAATCTAAACC
AATTAAGAGTAGCTTCCAGGTAACCCGGTTTGAACTTCTTAACATCATCAATATCATGAA
ACTTTGAGGCTTCAGGATCATTCGCATTGATAGCAATTAATTTCCAATCTGTTTCACCTT
CATCAATAAGAGCCAAAATTCCAAGGATCTTCACATGAATAACTTCTCCACAAGAAAGAA
TCTTTGAGCCTATTTCGCAAACATCAATAGGATCATTATCTTCAAAGCAGTTCGTGCTCT
TATCTTTTTCATGGG

Sequence 5326
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AATACATGGCCAATTGTTCCCTGTCTATAGTTCCTTCGGTGGGCCATCCAACACCAAAAG
AGGGCAATTCTAATTTACACAGAGTTCTTAGCCTCTAGGGGTTAACTTAACTCTATAATC
TCCTGCAAAACCCTTCTTAAGGTTCTGTAACCTGCATTTTAATGGAATAAGTTTTGATGA
TTTGATGACTTTCCTTTTATTTTTCTTTTTGAAAATTTTTTTTTAACACAGTTCTTAGTGG
AGTAGGCTTACTTTGTGTCTGACCTATTTTTCTCTTGAGACAAAACAACATTCACACTAC
AAGAAGGAAAGGATAAAAGGTCACTCACTCATCTAATTCACACTAAATCAAAATGAACAC
TA

Sequence 5327
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CCTCAAAGCATTAATCTCANAAAAAAAAAAAAAAAAAAAACCCCCCCNAAAAAANCCCCC
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NCGGGGNNNCCCTTTNNNGGGGGGGTTTTTTTTTTNNCCNAAAANGANNNCNGNTTTTNN
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NTTTTNGGGGGGGNAAAAAAAAACCCCCCNGGGGNGGNTTTTTTNNTTTCCCGGAAATTNT
TNCCCNNTNANGGGGGTTNNCCNNAGNGNAACCCCCNAAAAAAAANAANNNANNNNNNTC
NNCCCCCGGGGGGGGGGTTTNAANGGGGGAATTNTCCCCCCNGGGGGGGGGNGTTTTTNG
GNGGNCCCCNCNCCCCCNACCNNGGGGGGGGG

Sequence 5328
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCTGAGCTTTCCAGAAAGGGATATGAGGGNC
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GTTAATCACCCACCATAGGGCATGATTAACAAAGCAACCTTTCCCTTCCCCCGAGTGATT
TTGCGAAACCCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAGAAAGCTTAAGG
CGGCCTACANAAAAAGGAAAAAAGGCCACAAAAGTTCCCTCTNACTTTCAGTAAAAATAA
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TGTTGTGCAGCATTAAAAAAAATCAAAATAA

Sequence 5329
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TTTGCATNCTTGTTNTCTAAATTATNTTTTTTTNTTTCGNTTGGTCTTGGGCATTTTTAT
TCCTTCCTTTCCACATNTGCTGTGCTTGGTCCCCCGATGTTTAGACTTTGATTTTNCTTG
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AGCCTTA

Sequence 5330
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GAAAACATGTCTTTTAGGTGTCTTGCCGATGACTATCCATAGGAGGAATGGCTATCCCAA
AAAAAGTTCCGCAAAAAAGTAGATGAGTTTCTTTTTTTTAAGCACTAAAGAACAAAATGC
ATTTTTCATTAATACAGGCTTCTGATGAACCAGGAATCCTGTTTTCGTAAAGTTCCAATG
TTGATGAGAGTAAATTCTTAAGCATTTGTCCTAGAGGTGAAAGCAGCTGAATGTTTCTGA
ACCATCAAGAGGCAAACAAACAGGAGTTTGTTTCTTGAACCTGCTTATGCACACAGCTCT

TABLE 1A
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TAACTCCTCATGAGGCACACAGCTCTTAACTCCTGATGAACCAAGGATTTACTCATAACT
TTCTCCTTGTCATGGAGGCTTAATAGACAACAGAATAAATGCATTTCTTGGGCCTCTTAT
AAACTTGGGAATTCTTAGAAAGCTGCTTCTATTACCAGGCTGNAATAACTGGGATAGTTT
TTTTTTTCTCTTAAGAAGGTCTGGTATTAAGCCTGAGACAGCCATTTTTTTG
Sequence 5331
CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGGGCGCTTGCGCCTCTTTCATCTTCCCA
TCATGGCCCGCCGCCTGTGCGCCTCTGCTGAGTCGTATGTATTTCCCTCCTGACATTTTT
TTTCAAGAATGTTCCAAGTCACTTTAATGGGCCTCACCAAAAAGAAAATGAAGAATAAAA
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TGACCCTCTGAGCTAGAGTCTTGGAAGTCACTTTCTGGTGACCCCTGANCCCCGTTGATT
TCCCGTCCCGCTAGGGTGCTCTTNACCCAATGGCGGTTTGCTTGGTTATTGAAGAATTTN
CCGGAAACGTGTGGGTTGGGTGGGTAAAAGGGGCACCAACTGTTGTCAAGCCCTGCATTG
TGGGGGGTCTTGAAGGTCTTGGCTCTTACAAGCTTTGTAAAAATGGAAAA
Sequence 5332
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GGAGGGGCCGTGTGTGATTACCAGAGGGAATCGGTGTTACATCCTCTAGGATTCCCTCCA
GGAAACCTCCTACCTACCTGTTACAGGTAAGGACCTTAGGTGTATTCTTANATGGGTGGT
TCTCAAACCTTCATGTGTGTATGAATTACTGGGGAGCCAGTGAAAATACAG
Sequence 5333
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ACCAAGTCCATGTGATTTCAGTATATACAACTCACCAGACCCCTCCAACCCATATAACAC
CCCACCCCCCGTTCGCTTCCTGTATGGTGATATCATATGTAACATTTACTCCTGTTTCTG
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Sequence 5334
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TGGACAGTGAGCCTATGATGGTGCCTGCAACACCTCCAGCCAGGGCAACAAAANAAAGGC
CTTGTCTTGTAAAAATTAAATTAAATNGATACTGCAGGGGGAAAAGGTNG
Sequence 5335
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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAAAAAANNTTT
TTTNNAAAAAAAAAAAAAAANNNTNTTNNNNNAAANNANNNAAAAAAAAAAAAAAAAAA
AAAAAANTTTTTTTTTTTTNAAAAAAAAAAAAAATATNTTTTTTTTTNTTTTAAANNNNGNN
NAAAAAAAAAAAAAAAAANNTTNTTTTTTNTTTNAATAAAAAAATAANAANAAAAAAAAA
AG
Sequence 5336
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GTTCCTGAATTTTCATTTGTTTTTTGAAAATAGTTTCCATTCCTGAAATGTCCTATCTAT
TCATCCATTAGGACTAGCCTCTTTTAAAATCTATTTATGATAGTTGCATTACACCCTTTA

TABLE 1A
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TTTGCTGACTACAACTGGGTTTTGNTTCTGNTGACTGATTTTTCTTTTACTATGGGTGAC
ATTTTCCTGTTTCTTCATATGATAGTAAGTTTTGGTTATATACTTGACAGCATAGAAAAT
AGACTATAAGTATTTTGGATTCTTGNTTGGGTGAAATGGTAGAGATGGAAAAAGAAAGAG
ATGTTTCGGATTCTTTTATTTTCCTTGGAAGAGTGTTGAGTTTTACTTCAGCAGGTGGGT
AAATTACTGATGAAAAACCANGAGTTTGNGNAGCCTTTTTAACAGGGTGATTCCGG

Sequence 5337
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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ATCTCCTTTTGCAAGGTGTNAAATTTTTTTGAAGACTTTTCCACACATTTATTATAATTG
TGAAGTCTCTCCAGTATAAATTCTCTAATGAGTTATTANAAAAACT

Sequence 5338
CCCTTAGCGTGGTCGCGGCCGAGGTACTTAATTTTTTTTTTTTTTTTTTTTTTNCTTTT
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TCCCCAATTTANAAAGAAAAANTTTNGNNNNGGGNACCCCNCCNCCCCNNTTNNTGNNNA
NTTTNANTCCNTCTNGGNNAATTGGGCTGGGGGNGGTTTTTTANNCCCNNAAAAAANTTT
TTNCCATTTTTCTTTTTTTAAANNACCCCNTCCCGNGNCCCTTNAAAANATAAATTTTTT
NNCCTANAAAAGGGGTTTTCCTTAAAATAANGGNNAGGGGGNGGGGTTTAAAAACCNANN
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CNCNTTTTTANANCCNTTGTNCCCTNGGGGAAATTTTTAANCCCCCCCTTTTTNAAAACC
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NAAAAATTCNCTTTTTTTTNTCCCAANCAAANTTNTTTTTTAAAAAA

Sequence 5339
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AATACAAGCTTTGCAGTTTAAAACAACAGAAATTTAATTTTTTATAGTTCTGAGGGTCAG
TAACCTAAAACTGATCTTATGAAATAAAGTTAAATCTTGGGGATATGGGTGTGGACAGGG
CTGGTTTCTTCTGGGGCTCTGATGGTAAAATTTGCTTCCTTGCCTTTTCTCCTTCTAGGG
AGCCTGCATTCCCTGCCTCCTAGTGGCTTCCTCCCATCACTCGAACCTCTGTTTCCAGCC
TCAGGATTCCTAATGTGACTCTGACGTTTCATCTCCCGTTTATGAGGACGCTTCTGATTG
CTAAGATACATACGGTGACACTATGGAAGTTAACTTGAAGATTAAAACCCTGAAAAATAG
AAAGAATCTTCTATGGTATATCACAGAGATTACAAGGGCCTGAATTANAAGTGGNGACAT
TTTCATCCCTTGATAATGGATTAAAAAA

Sequence 5340
CCCTTAGCGTGGTCGCGGCCGAGGTACCATCTGACTTGGCAATGTAAGACACACACGTTA
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ACTCGGGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATGTTCAATTCTGCTCCAGTA
GAACATGGCACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTACACATTCCAAGTTTGAAATCT
NTGTGATGCTTTTGAGAGGGATGTGAAGACACTATTCTTANAAAATTAAGACAATCCTCT
GCCTTGGAAAATAACAACTCAATCTGTTTTTCTANAATGAATGGATAGGCAAATATTATT
TCTGTCTTTAAAATATTAAAGTTATTTTAAATCATAGCATATATGGCACTTTGCTCAAGG
GGAGGAATGGTGTGGATATAAACATTTTGGAGTAAAAAATNTNGCCATTATTGACAATTA
GTTGAAGCCTGCCTCTTGTTCCTGACAAANACATTGGAATGCAAAAAATTCCCAGGNGGA
ATCCCCATTT

Sequence 5341
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGTCCCACTCTGATGCTTCTACAAAGCAGTGT
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GCTGAGCCTGTAAAACGCTGNGGAAAGTCTGCACTCTTTCAACTGGCAGAGATGTGCCTG
GCATCAGAAGGGATGAAAATGGAAGAATCAAAGCTAATAAAAGCAAAAGAATCCGATGGT
GGAAGAATTAAAGAATTAGAGAAGGGAAAGGAAGAAAAAGAAATTAAAATGGAGAAAACA
GATGAAACTAGGTTACAGAAGGAAGCAGAATTTGAAAAATCGGCTAAGGAAAATTTAAGA
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TABLE 1A
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AATGGAAGATCCCAAAGAAATTAGAAAAGGAAGAGTTTAGAAGAANATCCCAAATGTTAG
TCATTTTCCTGATTTTTCTTATTCTGCCCAGTAGCCAAGAATAATAATTTAGNGGATGTT
CCCAGTNAGAAAGGGATCATTATGTGCCCATCCCTCATTGGAAATATTGATCATTGGGGG
GATCCCCGCAGCCATTAAAACAAGCCCCNGAAAAAGCTTAAAAAAAAAAAAAAA
Sequence 5342
GTACAAAAAAAATCATTTCAAATAACTNAGGAGGATGATAATGGCTGGACTTTTGTAATT
CACCTCAAAGACTGTGGGAGAGCCAACTCNAACTTAANCTGTNATAAGNCTGGNGCATAT
TGGNGGCTTGTANCATTGTAGNGTTTTTTCCAAAAGGAAGNGAAATATAAAATGTTTAGA
TTAAGAACTATAAAACTACAGGGTGCCTATAAAAGGTGGCNTNACTCCTTATTGTTATTA
TACTATCCAATTTTTAAAATGCAGTTTAAAANATAAGGCACNTGAGTCTTTGTTCCCGCG
TACCTGCCCCGGGCGGCTCGNTCGAAAAGG
Sequence 5343
CCTAATTGTCCTATTACAGCCTTNCATTNGGGAACAACTGCATCNCTCTTCTTTCTACAT
TAAACATGGGCTGCACTTTGGTGAACAAAAACACTCAAGTATTGGACCAGTAACTTGGCT
CCAGCTTCNACTTTGTTTACCCCTTGGTTCAGTGCATTTCTGCTCCATCACGAGGCTGAC
ATGTGCAGGCAGNTTNGCGGTNAGTNTGTGCGTGCAGAAAAGGAAACA
Sequence 5344
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGTGGGTAGAGGTGCNCGCCTGGNACC
TTGAACANTGGACTTCCCATTGCCTCTGGCTANGGCTGATGTGCTTTNGTATGCTNCACT
TGGANTCCAACTTACNACCTACAGNAAGGNATGGAANCGTATTTGAANGACTGNTGCCCA
AAA
Sequence 5345
CCCTTAGCGTGGTCGCGGCCGAGGTACTTAATTGCCTTTCTTTTGCAAACTTTTAAAAGT
CAAATCTCCTGGTTCACAGGAAAGGAAATACAAATCAGTCAAGGGTCTGAAAAGATGCTC
AACCTCACTTGTGGGACAAGACTTAGAAATTACTACTGCCCTGAGACACCATTTCTTCAT
GCATCAGATTGGCAAAAACTTCAACCGTAAGATGACACTGGGTCGATGAGTTTTTGTGAA
AACAGGTACCTGCCCGGGCGGCCGCTCGAAAGGG
Sequence 5346
CCCTTAGCGTGGTCGCGGCCCGAGGTACAAAGCTGACAGCACTTTATTTTATTGCTCTCC
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GAACAATAAAATAAAGTGTTCTATTAACCTGATCTCTTTGCCCTTTTGCTATGTGAGGAG
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TTCTGCCTNAAAAAAAAAAAA
Sequence 5347
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AGCCCTGGCCTCTGACAATGCTTGGGGATTATAGGGTGTTAAGCCANCCACACCCCANCC
CTTGAGTGGACATTATTTTCATTACCAAAAAATTTCTNAATTTTTTGGGAGNGCCCTTAA
TGGNAATTTTTTNAGGGGGGGTTTTTTNGTTTTTTTCAAAAATGGGCTTTNTTATAACCC
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Sequence 5348
CCCTTAGCGTGGTCGCCGGCCGAGGTACTGTTAAAACTTAACTGTATTTAGAGGTCAAAT

TABLE 1A
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CCAAATTAAATGGTAAGGTAACATGGCTCTTGGAGGATGAGATAACTCATTTTTTGAGGG
GAAANTTAGTATATTTTCATAGTAAGGCAAGATANAGCTAAGGGAGTTTGTGTGATCACA
CTTAATGTAACAGGACAAAGGACAATTTAGGAGTAAATCTATCCCAAGGAGCTATNCCCA
GATCATAAATGGGCCTCC

Sequence 5349
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TAATATTTAGACAAATTTCCTTCTGAGTTTAAGGATAAAATGGGATGGGTTCTGCCTGGG
CCTGGCCCTCATGGGGACATCAAAGGGCAATGTTGCAAAAAAAAAAAAAAAAAATCAGACC
ATCAGATTGCGTGGGGGGAACCACCCCCATAATTAAATTACCTCCACCCAGTCCCACCCT
TGACACCTGGAGATTATGGGGATTGCAATTCAAGGTGAGATTTGGGTGGAGACATANAGC
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GAAAATGAAAACNCNATNTTTNCANAATCAGGGAGTTTGCCAGCCTAATGTATGCTTGGG
GGGCCAAATTTAAGCCCCTAAGAACCCTTTNTTTTTAACCAAAAAAAGAAAGGGCTCAAA
TCCAANGACCCTGGAGTTTTTCACCCTTTTAAAAAACTTGGGAAGGAGAANGAGGCCAAT
TTAAANCCCCTTNGTNAGNCAAAAAAAAAAAAAAAA

Sequence 5350
CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTTTGAGGAAGCGATGAAGGAGGCTCATGCT
GTANATCAAAAGCTTGCAGAGAAGCAGGAAGATGAAGCCACCCTGGAAAATAAATGGCCC
TTCCTTGGGGTTCCTTTGACAGTCAAGGAAGCTTTCCAGCTACAAGGAATGCCCAATTCT
TCTGGACTCATGAACCGTCGTGATGCCGTTGCCAAAACAGATGCCACTGTGGTGGCATTA
CTGAAGGGAGCTGGTGCCATTCCTCTTGGCATAACCAACTGTAGTGAGTTGTGTATGTGG
TATGAATCCAGTAACAAGATCTATGGCCGATCAAACAACCCATATGATTTACAGCATATT
GTAGGTGGAAA

Sequence 5351
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGGGATTATATAGGCATGAGCCACTGAGCC
TGGCCCTGAAGCGTTTTTCTTAANTTGCCCTCAGTGAGATAAATTAGATTTGGCATCTCC
TGTCCTGGGCCAGGGATCTCTCTACAAGAGCCCCTGCCCCTCTTGTTGGAGGCACAATTT
TAAGAATAAGGAGGAGGAGGGAGAAGANAAAATGTAAAGGAGGGAGATCTTTTCCAAGNC
CGAACCATTTTTGTCACTTACATTGGACCCAAAAAAAAAAAAATGGGCCAAACCTTACAA
CCCCTTGATGTTTGAAGAAGTTCCAAGTTGNAANGGGAACAAAAAAANTTTTTTGATGGT
GCCCAAAAANGGGCTTGNTNTTCANAAAAGCNTAAAATTTAAA

Sequence 5352
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TGGTGCAATCTCAGCTCACTGCAAACTTGACGTCCCAGGTTCAAGCGATTCTTCTGCCTC
AGCCTCCCGAGTAGCTGGGATTACAGGCATGTGCCACCACACCCAGCTTATTTCTGTATT
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GCCCAGGTTGTAACCCTTTATAAGAAAGAAAGTTCTCCTTTTTTAAAATTTAAAGATATC
AATAAT

Sequence 5353
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GAGCCAAGACAAAGATGACTGAAAGAACTTTAGCTAAAATCTTCCAGTTACATTGNCTTA
CTCTCTTTTACTTNTCAGACACTTACCNCACCCTCATAGAACCTGTTGCATGCAACTTAG
TTTCACAGCTTTGCCTCTTCTTTTTGATGTATNTATTCCAGACCTTTTTGGNACTTAGCA
CTTGTNTAATCAGACTGGAAAATNGGGGATGANGGTGTAAAAATGNATTGGAAAAAGAAC
GCGGATAAANATCANCAAATGTTGAANGCCCCNAAAAAAAAAGATTCGATTNCNNGGTNT
TGCTGGGATTTTTTACATTTTTATNTAATAAAAATGGTTGGTTTTGGGGATAANCCNAAT

TABLE 1A
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Sequence 5354
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GCCTTGGTCATCATTTGATATATACACCCGGAAAGGGCCGCTGGAAAACCCAAAGCGTAG
GGAATTATTAGACCAATTCAACAAAAGCTGTATCTTATTCAAATGATTCCTCGTCAAAAT
TTATTTACCAAGAACTTAACACCTATGAACTATAATATATTTTTTCACTTGTTAAAGCAC
TGTTTTGGGAGGCGCAGCGCCACTGTAATAGACCCTTACGTTCATTGACTCCACTTGATG
CGAGAGATATATTGATGCAAAATAGGAAAACAGGAGGGATGAGAAAGTAGTTAACATGCA
CCCTCAAGACTTCAAAACACT
Sequence 5355
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TGGGAATGTNCAAAGGGTTTCCGGAAGTGNTTGGCTTGGAACCTCNGACGATGGGATGCT
GGCAGGTGTTTTAAACCAGCTGCAGAGNTNTCATCTCTTCCTGCAGGACACCANTGCCCT
TTCCGGCAGGATGCTGGCCTGTGATGGTCTCCACAGTANNAGAAAGAAGCAAGCCACATT
GGCAGGGCTGGATCTGGCAGGCAANTCTTCTGGCAAAAGTGTTANAAAAAGGGGC
Sequence 5356
CCCTTAGCGTGGTCGCGGCCGAGGTACACAACCACATTACTGGCCTGGGGCCAAGAGAAA
ATGCACTGACTGATGTGCGGACATGGTAACACCACTGTCTAAGATGCAGATACCTTGACG
TGTCTCAGGAAATGGCATCCTTTGGGAGTCCCACAAGGCAGCCTACAGAAAAGCACTTCT
TTTGAAATAAAAAAAAGAGGTACCTCATCTACGTTCACAATTTTCCTGACACATGGTCTG
GATGACAGTTCATCCCTCTCTGTGGCCAAGGTATAAAGCTAAACATCTTGGT
Sequence 5357
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC
TAAATGGTATCCTTAGATTAAAATTTTGTGCTTGATAACAGCTGTTTTTTCTACATTAGA
AATAAGATGCCACACAAGGAACTACATTCCAGATTTAAAGAAATGAA
Sequence 5358
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTGGTGGGCAGAGACTGGCAGTGAATTACT
CTGTGCTTCCCTAACGCTCTGCTTTATGGGTTACGTTATCTTCCTTTGAAATGNCCCCAC
TTGTCAGCCCTGCCAGCTGACATAGGAGCTGAGATAGAGGTAAGATTGCGTCATGAGTTC
TTTGCCAATGCGGCCAAAACATTGTGGACAGTCAAAGATCTCCTCCCTTGGAACATAGTA
CCTNGGCCGCGACCACGCTAAGGGG
Sequence 5359
GATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTNNTTTTTTTTT
TTTTTTTNNTTTCNGGGTTTCCTNNCAAAGGTTNNCNTTTNCCNNACCAGGTTTAAAAGN
GTTAAAAAAAAANTTNAANTTTTTGGGGNACCAAGGAAAGNATTTANTAAACNTTTTTTC
CCCAATCNTTTAACCAANCCTTTTTTTTTTTTTTTNCCCNCANTTTAACCAATAAATTTC
CAAAAAAAATGAAAGNNTTCACTTTTNATTTAAAAAAAAAAAAAAAAAANTGCCNAAAAA
AAATTTTTTTAAAATTTTTTTTTTTTTNAA
Sequence 5360
CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGCATGATGAGTCCTTTTGCTTTTAGGCTTT
TGACTTCTGGTTTTAGACTTTCTCTAGCTTCTGTTGTTAGACAACATTGTGCAAGCTTGG
TTTTTATAAAGTTTGCATGGATTAAACTGAACCTNANNGAAANTTGGCCCTTCCCCCNAA
AATTCTAAGCACAAATTTTTTAGGGCCCACAAGGGAGTCAAAGCACCTCAAGGGAGATCT
TCAGTTTGAAACTTTGGTGTAGACACAAGGGATACCTGATGGAATCAAATATTCAAATTA
GCTGTNACCTACTTAAGAAAAGAGAGGAGACCTTGGGGGATTTCGAGGAAGGGTTCGTAA
GGGGAGATTTTAGCTTGAGAAAA
Sequence 5361
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACCTGAACTTCTTTTAACCAAACTAAACAG

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TCTATTCTTGCCCAAATTCAACAAAAGGCGAAATCCACCCTTGCAATGAGTCAAAAGCTT
TTGTATCCTACCTGATATGCCTGGAACAGCGTATACGGGGAACCTGTCATACTGGTAGCT
GGACTCCTTATGGCCCCCCCTTTGTTTGGGGGCCTTAAATGGCTTCCCCAATGACACTCT
GGGGTTTCTCCCACCAGACAGTTGTCAGCACATATTCCAAATCAATAACAGTGCCCCCAG
TGAAACACAGCACCTTTGTTACTTAAATTACACATTACAGCAATACGATTGTAGTAGAAC
TCTTCCCCTTCCCTGGGGGGCCCTCTGTGTATGCGGATCCTATGGGTGGTGATACTTGCC
CCCGAACTGAACAGGGAGATGCACTTGGGGGTGGCCATTAATTCCATTCACTATCTGGGA
TAATATTTCCCTCCCC

Sequence 5362
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGGTGAAGCCCTTCAGGCAGACCTTCTCGC
CGATGAGGGAGAGGAACTCCTCAAAGGCGGGGCCGGCCTCCTCATTGTTGTACTGGCATC
TGCTTGGTTTCTGGGGAGGCCTCCGGAAGCTTATAGTCATGACAGAAGGTGAAGGGGGAG
CAGGCACATCACATGACAAAAGCAGGAACAAGACCCAGAGCAAGAAGTCACTTATCACCA
AGGGGATGGCCCAGGCCATTCATGAGGGATCCACCTTTGTGCTCCAAACACC

Sequence 5363
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTTAATGTCCTGAGTTATGCTGTGGTGTGG
AAACTATAGCTGTTACAAAGAGTAAATGATCTGTGAGTCCAGGATTTCTGCTTAAATCCT
CTAGGTGACGCACTTGAAATTTCATGTTTTTTCTCTTAAAATATAATTTTTNCCTTTATG
TAAGCTTGAAATTCATTTCAAACATCAGCCTTCAATCTAGCAAAGGTCTCAAGTCAAAAA
GAGATGTCTCTCCAATTAAGGTTATTATATTCTACTTGGAACCCCGCGTACCTCNGCCGC
GACCACGCTAAGGG

Sequence 5364
GATATCTNGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAGATAAATTAGTGG
TTACACTGTGTNAAATAATTNCACCACTAAGAGATCCAGAAGCAATGTAGCAATCATTCC
AATTGNATGTGTACACAAGTTACTTGATCTTTATGATCCTTAANAGATCGATGAACTCTT
TTTGATTTTAAATCCCAAATATTAACAGTGTTATTTAAGCCCTCCCCTTACCAAATACAT
ANATGTANAATTTAAATTGACACATGTCTNCTTTTACCCTTCAACAAACTTCTAAAAATT
GGAACAAGTTTACATTTTCCACCTNAAAACAAACTATTTTATTCNCCCCCTNAAAAAAAT
CTTTTTACTTAAAAAAATTTATTATTTACTACTTCCAACCATATTTNAACTTTATTCCCA
TTTTAANTAATATTNTTTTAGATTTNAAATTTATTCCACCCAAATATCATTAAAATAAAA
CCATCCCCATTATTTTTAATATCATCTCCTTAATTAAACAAAATCTNAAAATTTTCCCTN
NANTACTACNCCCTCAACCCTTNTAAAAAACCTTAACCATTTAAAANAA

Sequence 5365
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TAGGCCCATGGCCAAGGATGAAGTTCACATCTACAACTGGACATTGGGGGCTTTGAAATC
CAAATGCAGGAATAGAAGAGGAGCATGAGTTGGCTTAAGATAAATTAAAGCTGGGAATAG
GCCTGTGTGGCCAGGCAGCCCACTTTTGCAGAAATTGTAAAACTGTTAGAAATGCAGGGT
CAAACTTCTTGGAAGACGTATCTACNGCTCCTGCTTCCACCTTTTTTTCCTCCTTCCATT
GGTGGACCACATCTGTTCACTCAGAAATCCNCGGGGACTGCTACTCATTAAATTCAANGG
ACTCATTAAGTCTTTCAAGTTTACCATTATTCCTTTTCCGAAGCCAGTTGACACTTGTTA
ANCCTTTTCCACTTCTCTTCTTTCCTT

Sequence 5366
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTATGACTTCCATCTGAACTTGAAAAGTATTA
AAATGGGTCAATATTCACATTCTTTTAGATCTCAGGATGGGAAAATGGGTTTGNTCAAAT
GGATATGGTAAATCTTACCCAATTAAGGAAGGCTAATTTTAGAGTTCTTCTAATTTGCTT
GTGTCAACTCTTAACTTGTAAAACTGCTGTTAACTCGGTTTAAATTTTTAAATTANTATA
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CATATTTTGCCCACCTTGTCTTCCCTGTAAAGTTTAAAACGTTTCCAANGAAAAGCTTCA
GGGGCTGATAGTTTCTTAACAA

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Sequence 5367
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGCGGAGGCGGAGGCTTGGGTGCGTTCAAG
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TTCAATCCCNACNGAATGGNCCCCTAAGGCCAACGGTTNGGANATTTTCCGTCCGGAAAG
GCCTTGCNCAANAANGCCCTTTTAANAACCAAAGGCCGGCCCCAAAAGGNCC
Sequence 5368
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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTAATANNAAAAAAAAAANNNNTTTTTTTTTNNNNNNNG
NAACAAAAAAANNAAAAAAAAAAAAAAAANAGNNNNTNNTTAAAAAAAAAAAANAAANNN
NNTTNTNTTTTTTNANAAAANNTNNANNAAANNNNNNNNNNNNNNTTNNAAAAAAAAAAA
NANNNNNTNNNNNNNNNNNNNNGGTNANNATTTTTTTATTNAATAAAAAAAAANATNNTT
NNNAACNANCNNNNNANAATTNTNT
Sequence 5369
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ATTTAGATAATTTGTTCAAAACATGAGATGATATTCAGATATTCTCTCAAAGGCAGGACT
CCAACACCGCAGGTGGGAAACCAACAAAAGGGAAAGAAAACCAGAAAGGGAGGG
Sequence 5370
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TATCACCTTTTCATTAAAAAATTAAAGCCCCACCCCCAAAATNNATTTTTTTTTTGGNCA
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TTTTNCCCCNAAAAATTTTTAAAAAAATCNNTTTTAAACCNNCANTTATTTTTTAAAAAA
AACCCTTTTTCCCAAATTTTTNCCCCAATTTTNAATTGNTTTTTTCAANTAAAAAATTTT
TCCCCC
Sequence 5371
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AGGG
Sequence 5372
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GGGGGTTGGGTCTTTTTGTTAA
Sequence 5373
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GACAGACATTCATTATAGTTGTCTTACTTCACAATAAGCTACTAAAAACAGTCTTCTGGA
ATAAGATTGTATTAGTGCTCACTAAACATGCATTTCATTTAAACAAGGCAAAACACTTAA

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TTTGGTCTGCATTACCCAATATGTTATATACAGCCGTCTTTTTATTTTATCACAATAGGC
AACAAGATGGGTCTGGTTTTGGAATATGTTACCATTTGTGTTTAATTTCCAAAGACACGC
ATATTAGCTCAACTAGTGTAAACCTGTGAAAAAATAGCTGAGCCATCTTTTTCCTCTCCT
CTGTTAATTTATCTTGAAATGTTCACAGCTTTAN

Sequence 5374
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CTTGGAGAAGTCTGGGCCTGGGACAGAGGAGGGATGTAATCTGAACACTCCTTTGTCACA
GGTCACCAGGGTGTGCTTGAGGGGACCGTNGACATAAACGGAATTTCANAAGGCCAGGGN
AAAGAACTGCAAGAAGTANNAAAGGGTGGATTGTCCCACAAAGCTTCCCCGACAAATGGG
ATCAACTTGGGGAAGCTATCCATCTTGTGCTTTTCTGGAAACCAGTTTCAAATTGNTAAG
AGAAAAGCCAANTCANGNAATGAGTTTCTTCCATTTCCAGGACTAACCATGGCCAGAGCA
AAGCATGGATCCTTCTGAATTGCNANAAGTTGGTTGCANGGCCATACAGTGAAGTTANNT
TGCTTGGTAAAGGACTTGCCAAAATGTTTGAANAATGGGGCTCAAANTTTTGGGGCA

Sequence 5375
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TTATTAACTACTATGGAATGCAAAGATTTGGAACCACAGCTGTCCCTACGTATCAGGTTG
GAAGAGCTATACTACAAAATTCCTGGACAGAAGTCATGGATTTAATATTGAAACCCCGCT
CTGGAGCTGAAAAGGGCTACTTGGTTAAATGCAGAGAAGAATGGGCAAAGACCAAAGACC
CAACTGCTGCCCTCAGAAAACTACCTGTCAAAAGGTGTGTGGAAGGGCAGCTGCTTCGAG
GACTTTCAAAATATGGAATGAAGAATATAGTCTCTGCATTTGGCATAATACCCAGAAATA
ATCGCTTAATGTATATTCATAGCTACCAAAGCTATGTGTGGAATAACATGGTAAGCAAGA
GGATAGAAGACTATGGACTAAAACCTGTTCCAGGGGACCTCGTTCTCAAAGGGAGCCACA
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CTTT

Sequence 5376
CCCTTTCGAGCGGCCGCCCGGGCAGGNACTTTTTTTTTTTTTTTTTTTTNCTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTAANCNGGAAACTTNTTTNTTAACCAAATTTTTTTGTAGN
GAAANGCCNTTTCCCTTTTAAAAAATGAATGGAAATAAACAATANAGTTTTTAAGGAAAA
ATATAGTNTTNGCTGNGAAAATTTTCCNGGTAANATGTAAAAATTAATTTACTTTTAACT
TCANATGCTNTCNTTTTTTACCC

Sequence 5377
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTNGGGTTTTTT
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NTTNTACANNNAAAAAAAANGGGGGGGGGNGGGNGGGGGNCNNCNNAANNCCCCNCCCCC
CCCCNGGGGGGGNGGGGGNANAAAAAAACCCC

Sequence 5378
CCCTTAGCGTGGTCGCGGCCGAGGTACATCTCCTCGATCATCTCGCGGAGGGCCAGGAAG
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CCCGTGTGTAGCCCCAGCCCACAAGGCTCTCCACCATGGTGTGGAAATAGGAACCCACGC
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GGCTAAAATCCCCATTAG

Sequence 5379
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GGAATCTTGCTCTGTCACCCAGGCTGGAGTGCAATGGTGCGGCTCAGCTGACTGTAACCT
CCGCCTCCTGGGTTCGANATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCA

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GGCCCCAAAAAAAAGCTTGGTTNCAAACCTTTNAANTCCTGGGCTTAAAGCCAANCCTTT
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AAAAATTCACAAAAGGGGANTTAAGTNTTCCNANTNAANACAAAATGGGAAACATTTAGT
TTATTTAATNAGNATNGANAAAAAGGGAAAAA
Sequence 5380
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AANNGNTNNNGNNANNNCCCCCCCCCCCCNAAAAAAAAAAANGNNNTTTCCCCCCCCCNTT
TTTTNAANCCCCCCNTNNANNAAAAAAANTTTTTTNNNNNCCTTTTTGNGGNNAAAAAAA
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CCCCNNNGGANAAAACNCCCCCCCNNGGGGGGGGGGGGGNTAAAAAAGGNGGGGGGGGCCCC
CNNAAAAAAAAAAAAGGGGNTTTTTTCCCCCNNNNNNNNGNGAAAAAAAAAANNNNGNGN
GCCCCCNCCCCCCNGGNGGGGGGGGGGGGGGNGGGGGGGGNTTTTTNCCCCGGGGGGGGN
CTNNAANGNNGGGNGAAATTCCCCCCCNNGGGGGGGGGGGATTNTNNANANACCNCCCCC
CCCCCCCCNC
Sequence 5381
CCCTTAGCGTGGTCGCGGCCGANGTACGCGGGTAGCATATTTTCCTGCAATGAAAGCGTT
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Sequence 5382
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CCTAAATGGTCCAATGAAAAATTTTGATTTTTNTTTTGANCCTTGGAGGNAAAAGGAA
Sequence 5383
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TTGGG
Sequence 5384
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TGCGGAATCTTCTACAGGAATTGCAGCTCTTCACGTCATGCTAGGTTACCAGCATGGGCT

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TCCCAGAGCACTTCACTCTGTTTCTAACTCCACTGACTTTTCTGACTTGTTTCTTGAGGG
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GAAATGGTGTTTTGTTTTTGTTTGAGTTTTGTGTTTTAGTTTTTTGGTTTTGGTTTTGTT
TTGTTTTTTTGTCATTCAGATTCACTAAATTTGGGGATGGTTTTATTAAAGTATATTAAC
TTCTTTTTAACCAAAGCTTTCTGAATATGACCAGCCTCAGGTGCTAGCGCATTAAAGAGC
AACTAAACCTAATTCCAGTGTCGATTTGTGAAATAATAAAAGCTAATTGAATTTCTCTAA
GGGTGAGAGAGAACATAATGATGAACTTAAAAAAGAAATTCCTTTT

Sequence 5385
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CGGTTGAACCAAAGCGCGGAAAATGGTTCGTCCTTGCCCTCTGCTGCTTCCTCTTGTGCG
GAGGCACGGGCTCCTTCTGCTGGATCAAACTTCGCGGCNACCTCCGGGACTCTGACGGTG
ACCAACTTATTAGAAAAGGTAGATGACAAAATTCCTAAAACATTCCAGAATTCCCTTATT
NATCTTGGACTCAACACTATGAAGTCTGCAAATATATGTA

Sequence 5386
CCCTTCGAGCGGCCGCCCGGGCAGGTCTTTTAGTAACNACCCAATCTAAAGAGCCTTGGA
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ACTTCTTTAAANAAAAAAAAAAACTAAATCACCTCANCATTAATAAACAACATTTTTCTT
TTAAACAATAACTCATAATCTTATNACTCACTTTCTTTACTAATTCAAAATTAACAANAN
AAGAACTAAACTAATTNTTCATACCCAAAAACCCCAAAATATTTTNANCAAANCTTCAAN
TCCCTTCAACTNATNNATATTCTAAATAAATTCAAGCAAANAAAAAACTTTCTTCAAACT
TCTTTATTCCCATTTCCTTCACCATTCTANTAAAAAAAAAAATTTCNATTTTAACCACCT
TTNTTTTTTAATCAAACTTTTTAAACCTTTCATANCAAANCCNAAAGAAAAATCACCAAA
ACTNTCCAATTNAANNCCCATAAATTNATCTTTAAANAAAANAANTAATTCTTCCTTCCC
TTTACAAAANTCAAATTTAAANTAATTACTNTCCTTAAACCCTTTTT

Sequence 5387
CCCTTAGCGTGGTCGCGGCCGAGGTACAGAACTCAGAGGAAAAAAGAAATTAAAATTTTA
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GAAACTCTTTAAACATCAAGGGGGTTGTGAAGGGTTTGGCCATTCTTTTATCTTGGGTCC
ATGTGAGTGACAGAAATGGTGCCGGCCTGGGAAAAGATCTCCCTCCTTACATTTCTTTCT
CCNTCTCCTCCTATTCTAAACTGTGCCTCCACAAAGGGCAAGGGCTCTTGGAGAAAGATC
CTGGCCANGACAGGANATGCCAAATCTAATTATCTNACTGAGGGCCTTTTGAGAAAAACC
CTTCTNGGCCAGCTCAATGGCTCATGCCTATATAATCCAGTACCTGCCCG

Sequence 5388
CCCTTAGCGTGGTCGCGGCCGAGGTACCGGAAGCAGCGAATGGAAGAGATGCGGCAGCAG
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ATTT

Sequence 5389
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CTGGGTTGATGCACAGAGAAGGGGTTACCATGGTTTGGGACCACAGANATCACTTCAACA
ACAGCCTGTTCCAAATAANTGATGCTTGTCTTGAATTGTCCTGCCTGCATNACCACACTT
TGCCTTNATTGCCAAANGCATGAATCATACAAAACTCAATATATAACAATGTTTNTAATG
AATTTTCTATTAACAAATAGGAAGTTCTTATATATAAAACCTTCACATAACAATNAAAAA

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AAAGCCGGNTNCATTAANAAAAATAAATATCTAACCNTNTAAAGATTCTTCCCNANAAAA
GCCATAAACAAAATTTTGTAAAAAAAATNTATTCACCCAATTCATTTTCCCCCTTNAAAT
NTTTCCACTTAAAAGTCNCNAGNNCTTCCTAACAAATATTTAAATCCTTTCATTTTTTTC
CAANTTTTTTACCAAACCCCTTTCCTTAAACAACCCCCCCTTCCCNTTTTAAATTNCCCC
AATACTTTTTTTTTAAANCCAAANTTTTTTNCAAATTNCTTTTCCTTTTTACCTTTTCNT
TATCCTCCAATNNCCCTTNAAAAAAACCAN
Sequence 5390
CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGTTTCTGTTTCGGGTGATGAAAACCTTCTG
GAAATGGATAATAGTGGTGGTTACACAACATTGGGAATGTAACTAATGCCACTGAACTGT
CCACTTAAAAATGGTTAAAATGGGCAAACTTTTTTGTTATCTAGATTTTACCACAAGTTT
TAAAAACAGAAGAAAAAAGAAGGCAGAGGTTGTGGTGAGCTGAGATCTTGCCATTGCACT
CCAGCCTGGGCAACAAGAGCAAAACTCCATCTCAAAAAAAAAAAAAAAAAAAGTATTACT
AGACATCAAATAAGAAAACATCAACAAAATTAAGTTACACAAATGTATTCCAGAAACTAG
TCTTTTAATATGTCCTCCAGACAAACTGGGAAACAGCCGCAGCTCCTTCCAATGGTTCAT
CATGACTT
Sequence 5391
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TTAAAAACCAAAATGATAAAACATATTTCTTAAACTGTTGGGTTCTGAAAAAGTCACCCA
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ATTTAAGCCCTGCAGCTCACAAGGCAAAGTGTGTAATTCTAANAAGCATCAA
Sequence 5392
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CCTAATGTTCTCCCTCCCCCCTCCCTCCACCCCACAACAGACCCGGATGTGTGATGTTCC
CCTTCCTGAGTCCATGTGTTCTCATTGTTCAATTCCCACCTATGAGTGAGAACATGTGGT
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TCCCTACAAAGGACATGAACTCATCATTTTTTATGGCTGCATAGTATTCCATGGTGTATA
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CGGGCCGC
Sequence 5393
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ATGATATTAGCCT
Sequence 5394
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TAAATGTATGTAATANGCTCACCATTTANTTTCAATGTTTAAATATTA
Sequence 5395
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ATCAGTGAAATGAGTCCCAAAGCCCTAGTTGATACCTCATGTTCTTCCAACAGAGATTCT
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CAGCGGGGCCCCACAGACGAGCAGGATGCCTGTCCCCATGAGTGCCAAGGAACAGACCCG
GGAACCCTGG

Sequence 5396
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Sequence 5397
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Sequence 5398
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CNGNNTACAGAAACTGTGCGGGCATCACGCTNCTNAGGACTNAGATTATCAACTGNCTCC
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Sequence 5399
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GCCTT

Sequence 5400
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Sequence 5402
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Sequence 5403
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Sequence 5404
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Sequence 5405
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Sequence 5406
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Sequence 5407
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NNGGGGAAAAGG
Sequence 5408
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Sequence 5409
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Sequence 5412
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CTTTGCCTACCATT

Sequence 5413
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AGGG

Sequence 5414
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Sequence 5415
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Sequence 5416
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Sequence 5417
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Sequence 5418
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ATCAC
Sequence 5419
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Sequence 5420
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Sequence 5421
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Sequence 5422
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Sequence 5423
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GGCGTT
Sequence 5424

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Sequence 5425
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Sequence 5426
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TCAAA
Sequence 5427
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Sequence 5428
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CCTTTATGACTGCTGTGACNAACANAAAACAGGGGAACC
Sequence 5429
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NGGNANAANAAATNAAAAACCACCCTTGGCCTTTNCTTNGTAAGNCCGTAAAGNTTNGTA

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NGNCAAAACCNCCTTAACCCTTGNGNGAATTTCNAATTTCCAATTTGTTGGGANAANCCT
TAANAAAANAANCCAACCCAAAATNAANTCCAANATGGGAAAGTAAAAAAAAAAAAACCC
CCCTNTNTAAATTGTGAATTAANGNTTAAAA
Sequence 5431
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAAGAGGAGGTGGAAGTGTGAGTGCCATG
GGGTTGCTGACACTGGAGCAAGTTCTACTGTCCCTCTTGGGGCTTGNCTGCCTAAAGGAA
AGTGTCCCCATGGAATGAAANGAGGTTTTGTTTCCANTTTGTAAGGGCATTGGNACTCAG
GCCTTCTGGGGCTTCCACTCCCCGCCCCTTTTGAGGNAAACCCCCACCANCCNTGNAAGC
AGCCTGCACCCCACCTTNCTTGAACATNAAAGCTTTTGATTGGNTATTGCTAAAACTTTN
TTTNCTANAAAGGCTTTACCAATNCATACACCNTACCACAAAGTGCATTNATTCTTTTTT
AATTTTTACCAACCTNAAAAAAAGGGAAAGGGCTTTTATTGGTTAAATTTTACATTTGGA
TCANTACTGNAAGTGTGGAGTCTTATTACCNATAATGCCTTTTCNTNTNTTTTCNTNTTG
GCCCCTAA
Sequence 5432
CGCCAGTGTGAATGGNTATCTTGCANAAATTCCCCNTTACCGTGGTCCCGGCCAAGGTNC
CCGGGGANGGGGCCCGCAGCTTCACTTACACANCAAATCAACCACCATGAAANCTTTTCA
CGGGCCTGGGTTTTTTGCTCCTGGNTNCTGGGGTGTCAGNAACCCAAANCTTTCTTTTCG
TTTCCTTGGCGAANGCTTTTTGAATGGGGGCTCGGGGACATNGTTGGGAAGAAGCNCTAC
TTCTTGACCATTTAAGAANAAANCNCAATTTACCATTCGGGCTTCAGAACAAAAATACTT
TCCCATGGCTTCCGGGGGGGAAACCTTATTGATGCCTGCCCAAAAAANGGGGACCTTGGG
GGGTGGTCTTGGGCCTTGCAAGAAAAGCCGATCAANCCGATGCCCAGAAGAAGAATTATC
CCANANGATTTCTTTGGCCCAATGGTTGCCGGGAGGACNTCCCTGGCTTGATCAAGGCCT
GCCAAATNAAATTGGGGGGCCAGGANTTGNGCAAANAACCCCAAATCACTTCCCGACCTG
CTTGGGCCTGCCCTGAAGAAAATACTGAGCTTTCCTCTTTCAACTTCTTGCTTCTCAANG
AANATCTTGGCNTGTGGAAGGCCCTTCANGGGGCAGGGGGATACCAAAAAACCGGGGGGA
NGAAGGGGTACCCTTGGCCCCCGGG
Sequence 5433
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGCATGACTGTCAGCTGCTGTCAATCCTTG
GCTTTTGGAAGCAATGTCACGGCGCTTTAACTTGCTTTTCAGTTTGCTCAGCATGTCTTT
GAAGCATCACCTTTACTCATCTCTTCCAAGGCTCACTGTTAACCACATTGGCACTATTTT
CAGCAGGAAATCAGCTAATACTTAAAAGCTAGTGGGGCCAGCCCTCCTTCTTGTTGGTGA
TATAAGCCNGTTTTTCAAAGAGCAGTCCTCAGAGAGACAGCATCAACATGCTCTGGGGTG
CATGTGACACTGCAGATTCC
Sequence 5434
CCCTTAGCGTGGTCGCGGCCGAGGTACTAACATCAATCCCAGAAAGCCAGCAGCCATAGC
CAGGGTGGCTATGATACCACCCGATTGCATTTTCAAGGCGGCCAACCTGTTTTGCATTTT
CTATGTATGCAGCCATGTATTCATATGCAGCAGCCTGAGCATTTACTCGGGTTTCAGTGC
CCTCCACAGGCAAAGCAAAACTGTCCATAATGATCATGGTTTCACCATCCACCTTTCCTA
GCATCAGACCCATCACTTCCAAGTTGCCTCCCGATCTGGCATGCATCACCATCTTCAGCA
GAGCCAATGCTGAGATTTTGCAGTACGCGGGGCCCGGCGGCCTTTGCGGGAACAAGATGG
CAGCCCCCATACCTCAAGGGTTCTCTTGTTTATCGAGGTTTTTGGGCTG
Sequence 5435
CCCTTAGCGTGGTCGCGGCCGAGGTACNCGGGGGCCTTGGTATTTGGNGCACAGTCCTGG
GAGGATCCTGGNGCTGGGACAGNCCTGGTTTTGTAGATTCCTAGTGCCTACAGGACNCAA
CTCACGGAGAGAAAAGGACATTTTGGGACAGCAGGTGGGTGGGCANTCTTGAAAATTGGT
AGCC
Sequence 5436
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCNGAAAGGGGNNACTTTNTTGGN
TGGGAAAGGGAAAAACTNTGGNCANCCCAAAAAGGGAAATTNCAGANTTCCCNAAAAAAA
GGGGGAGGGGCAGNTTGGGCCCGANAACCAAAATNCCAGGGGCCCNGGNCAAAAA

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Sequence 5437

GGTACTTTATATGTATATATATATAAAAGAATCTCGTCTCAGAAATGGCTGCATTTAACA
GAGCCATACACATTGATGCTAAACATAAGAGCTTTCACCCTGAAAGAAAGCATTTTCAGA
AATGTCACTTACATTCTATTATATTAAATATTCCCAACTGAGTTTCAAACTCAACAGGTA
ATGATAACAGAATTATACATCTCATTGCACTCAAAGCTGACTACAACCAAAATTTACAGT
ATGATTGAAACAAGCCAATGTTTAAAAAAGTTTTAATTAACGATAACAATTCCATGAAAG
AAGAGGATAAAGAATGGGATGACAAGAAGTATTTGGTCTTAATAAGGCAATACAAAATAG
ATCCATTATCAAAGACCATTTAATTTGTAAAGATCAACAAT

Sequence 5438

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCTCAAAAAAGAAAAATAGAAAATAAGAATC
AAAAAACAGGCTGGGAAAAGTGGCTGACATCTGTTGGCCATGCTGGTTTAAACTTCTGAC
CTCAAGTGACCTATGTGCCTTGGCCTCCAACCGTGCTGGAATTACAGGCGTGAGAAACCA
CACCTGGCCCAATCCTCTTAACATAAACACTTGAATGTCAATTAAGGGTTGAACTCAATG
TTAAGTCAACACAAACTCAAGTCAATGCTGGACTGACTCTAGTGTCAATTAATGCTTGAT
GGTTTGCTATACTCACTGCATTGGGAACAGTTATCTCAAAAATGAATTTTCTGATGTTCT
GCAAGGAGTGACCTCGGACTCAAGACCTTGCCACACTTCTGACATTTGTAAAGATTTCTG
TCCAGTAGGGATTCTCTGATGTCTAATGAGGTGTGAACATGAAGTAAAGGC

Sequence 5439

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTCTCTCCATATGCTCTTACGGGCTTGGCTA
ACAGAGAGCCAATATAAAACTCATCAGAGAGCTACCATTTTAAGTGGAAATGGTAGCAAC
GGATTATTTTTAAATGGACACCTCTTTAAATTTATGCCTGAGGTTGTAATTTTTTGAATT
TTTGTAATCAGACCTTGATGATGACCGTGAGCAGTAAGATATAAATAACTCCCACATGCT
TAGCGTTCCAATAATGGAACACTACACATACATGGCTAGGGTTCAAAGAAACTTGCTCTG
TTACAGGGATTACCTAGAAAGACTCTTCTGCAGTTCAATTTGTAAAATTTAGCAGCAATA
GAATAGACTCATACCATCACACTANAGGAAGGCCAGTCTTAGAACTAAGTCCATGACCAT
CAGAGGAGAAATGTTTACAGACCATAAAAGAGAAAGTCAGAGAAAAAAAGGCTTTCTGGG
GAATGT

Sequence 5440

CCCTTTCCAGCGGCCGNNCNGNCGGGNACNGNAANCNCCANCTCTAGCNCTGGCAAACCT
AGNCACTTGCGGCNNTNCTNNTGCANNCNCTGNTGCTGANCCTGANGGTATTGATCCNTT
AATANACCNGCTGTCNAANNAACNAGATGGAGCCATTGCCAACGCTGCTACAGTATTAAC
AAACNTGGCCCTGCTGGAGCCCCTGCGCCTGAGCATACANAATNACGACATCNTGCNTGC
CATCNTCAGCCCNCTGCGTTCTGCANACACACGTCGTGCAGANCAAAGCTGCTCTCGCTG
NCACCGCAACTGCATGTGACTGTTNAAGCCCGGACTGAGTTAATGAAATTCTGGTGG

Sequence 5441

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGNNNAAAAAAAAAAANTTTTTTNNNA
AAAAANNNTTTTNNNGGGGGGNGNAAAAAAAAANNNANNNGGGGTTTTTTTTTGGGGGTT
TNNAAAANANCCCCNNNGGGGGGNTTTNNNNTTTTNTNTTTTTTTNCCCCCAAAAAAANC
CCCNNNNNNGGGGGGGGNAAAAAANCCCNCNCCCNAAAAANGGGGGGNAAAAAAAAAATT
TTTT

Sequence 5442

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAGGATATCAAAGAAACCAGACTGTGATG
ACTGGGGAGAGCGGGCTGAATGCAATGGAGTGTGCATTACATTGGAAAAAAANGTGAATC
AAGTCACTACCTGGAACTGCACAAACTTGCCACTGACAAAAAATGACCCCCATTTTGTGT
GACTTCATTGAAGACACATTACCTGAATTGAGCAGGTGAAAAGCCATCAAAAAATTGGGT
GACCACGTGACCCAACTTTGCCAAGAATGGGAAGCCCCCGAATCTNGCTTTGGCGGGAAT
ATCTNTTTGACCAAGCACACCCTTGGGAAGACAGTGATAAATGAAAGCTAANCCTTCGGG
CTTAATTTTCCCATTANCCGNNGGGGTGACTTTCCTTGGTCACCAAGGCAGNNCAATGCA
TGTTGGGGTTTCCT

Sequence 5443

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CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCCGTCACATCCCGGTAAACAAAGGTCCTGC
TGAGCGGCTCCGAGGAGGGCAGTTTGCACTGGCAAGAGTCGAGTGTGGTCTCACAGGTAA
ACTGTGTGAGCTGCGAATAGTGGTGGGCGGCAAAGGCCACGGCCAGCACACAGACCGTCA
GGCCCAGGGCACTCAGCAGAAAGTATAACAGCTGCAAGAAAGCAGAAGAAAACCTTTCTG
GTTACAAAGAACATTGGATGATGATTTGCAAAGCGAATTCATCAAAACTGTTCTTTTTCT
TCCCTCCCANAAAT

Sequence 5444
CCCTTAGCGTGGTCGCGGCCGAGGNACTTTTTTTTTTTTTTTTTTTTTTTTCCTNATCTA
ATTTTNGAAATGATTTATTAAATGGACACTTTAGGAATTTGANANAAGCAGCTTTTCCCA
CTCAAATCACTTTGTGTTCCTCTGACANANAACAAATTCTTTCACAAGGACCTCAAACCT
CTGGGTTGGAAAAAACCTCAGNGGTCATCCGCTCATTCACCCATG

Sequence 5445
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTCCACATTTTAATAAATTAACCACAAGAA
AATAATCCCACATATACAAGGTCAGGGGTGGGGAAGAGTATTAATGGTATCTTAATTATA
CCCAGTCTGGTTTTTTTTTTTAAATGGGGTAAAAATCAAATGCAACCCCATCTTGTTTTA
GGAATTTTGAGAACTAATAAATGCACCTTAATGGTCAAGTGTTCCTTTCAAACATGTGAG
TTCTTTAACAAAAATGAAATAAACCAGGTGTCTGTGATTTCTAATTAATCACCGCTGACC
ATTCACAGGTTTTGTTGTTTGGGGTGGGGAGGGGGCTTTTGTTCCCTTTNGACATAATAT
ANNTCANTNCACTAACAATTATGTATATTNAAACTTGGATTATTT

Sequence 5446
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CCTTGGACCCATGAGTAGGATAGATAGCCAGAATAAAACCAGTATCGTGTGATGTCATTG
AAAGAAAACAAAGNTTCAAGGAAGGTAGTCACTTGGGGAAGGGGCTCCCTAATGCCTAAA
AAATAAAAGTCTCGAATTTTTAGCCTAGTCTTAATGATTATGCCCCATTCAACCTTTCCA
GGCTTAGCTACTCCCATTTCCCTACAAGATACTACACTTGAAACTAGACTACTTGCTCTT
TACTAGGGTATCCTCCATGTGCAAAGGCCTNTATCTTTTTGCTCATGCTAGCAACCAAAA
GACAGCAGGGGTCTCCTGGTAAATTTTAAGTGGTGAATGTGATTGAGCCTTGGCACAAAT
TTCAAGCAATAAGTAACAGATACTTTANAAAATAAGGGGATCTTANGTAACAATATGAGT
CAGCGCCATAATCTCCTCAAGTTATTCTAAGCGATCCTAAAGGGGCATTTTACTCAAAGG
AGGGATTNG

Sequence 5447
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ATCCCAGACTGTGCTGAAGCTTCATGAGACCTCTCCTCGTCTGTGCACCGAAAGAGGAGC
CGGACACAGAGTGTCCAGCCGACTCTGGAGCCCAGGCTGTTGCTTCCCGGTCTGGTGGTG
AGTCCTCCATTGTCTGATTGTGAAGCCTGTAGCTTGGAAGATACAGGACATAGGTGAAAG
TGTTTGTACCTGCCCGGGCGGCCGCTCGAAGGGCGAATTCCAGCACACTGGGCGGC

Sequence 5448
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGAGAATGGTTCCTCAGTTTTGGTCTGTTT
GGAGGAAGGCTGGGACATCACTGCACAAGTGACATCCCTGGTTCAGTTACTCAGTGATCC
CTTTTATAGGACACTTGAAGGCTTCCAGATGTTGGTTGAAAAAGAGTGGCTCTCTTTTGG
TCACAAATTCAGTCAGAGGAGCAGCTTGACCCTCAACTGTCAGGGGAGTGGTTTTGCTCC
AGTCTTCTTACAGTTCTTAGACTGTGTACCTCGGCCCGCGACCACGCTAAGGG

Sequence 5449
CCCTTAGCGTGGTCGCGGCCGAGGTACAATTATGATTTCTGAATTAATATTAGAGTGGGG
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GCATTATAGTAACTATACGATAGGCCACTTTAAATAAAAGGCATCTTTTACAAAATTTTT
AGTCAATAAATTGATTACCACATACTTACGACCTATTTGCTATTAAGTGTAATTTATAAT
TCTAGTATTTTCAAAAAAGGAACATATTAAAATCCTATCAATATTTCAAATAATGACAGA
ATTAATCATTTTTAATAAGAATCCTTACTCAGGTCCTTCAAAAACAATATAAACTATGAC
TTAAGGTAGATTCCTTTAAATCTGACTAATGAATAAATGTTAAATCTCAAATTTCATAGT
CCCAGTGCTGGAAAACCTATATTTTTA

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Sequence 5450
CCCTTAGCGTGGTCGCGGCCGAGGTACCATTTGCCTCCCGGGCTCAAGCGATTCTCCTGC
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AGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCGC
CCAACCATCAAAATGCTTTTTATTTCTGCATATGTTGAATACTTTTTACAATTNAAAAAA
ATGATNTTTTTTTGAAGGCAAAATTGCAAATCTTTGAAAATAANAAAGGCAAAAATGGTA
AAGGGANTCAAAACTTTTAAATTAAGTTTTTTNGGAAGTGAAAAACTGGNAAGCTTATTT
GNATTTAAAATTTCCCAAAACTTTTATTACNTTTTTCTTGGAATTACAAATTTTTTTTTN
TTTT
Sequence 5451
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CTGTTAACAATATTAACTAAAATTTGCAGAATATTTATTTTAAAAGCACTTTTATTATTA
CTACTACTACTGTTAATAGTATTACTACCACTACTACCACCTCCCTTTTGTAAAAGAACT
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GGACTCAAACTCAATTCCTATGACTCCAAAATCTGNGACTTTTTTCTTAAAGTTAAACCC
TTTTCATTTTTCAAGTATGAAACCCTTCATTCATTCACTCATATCTTCATCTACTCAAGA
AATATTTATTAAACACCTACTACATGCCAGATGCTAATCTCAGGCCCTCANGAAACAATT
AAGAGTACCTGCCCGGGCGGCCGCTCGAAAGGGC
Sequence 5452
CCCTTCGGCCGCCCGGGCAGGTACGCGGGGCAGTTGTCCGCGGTTCCTCCTCCTGTCGCT
GCCCGTGTGATTACTGAGACTCAGATGGACCACACATCCCCGACCTACATGCTTGCTAAC
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GAACTCTGTGACATCATTCTTCGAGTAGGTGATGTTAAAATTCATGCTCACAAAGTGGTA
CCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACAC
Sequence 5453
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGTGAACACATAGTCGTCATTCTTGCTGCCC
CTGCCTGTGCTCCCTTCCATGACCGCTAGTGGGAGCCAAGGGAGATAAGGCCCAGCCCTT
AGGAGTTAGGGCTGAGAGGGGAGCCCACGCTCTCATACCCAGCAAGCTGCAGAGTGATCA
GACAGCCCATTCCCTANGATCGCAAGTCCTACAGCTGGAAACAGCGGCTCTTCATCATCA
ACTTCATCTCCTTCTTCTCGGCCGCTGGCTGTCTACTTTCGGCACAACATGTATTGTGAG
GCTGGAGGTGAAGCCAGGATAGGATCCACAGGCCGGTCATTAAGTGGGCTTGCGGGGCAG
CAATGATGTTTTTGATAATGGGCAATGGTCTTGGGGACTGGCTGCCATTGTGTTCTCTGT
GGCAAACCAATGGTGGGTGTGATTTATCAAGAGGCCTCTGAGCNGGTAGCTGGAAATTCA
CCATGTCCTG
Sequence 5454
CCCTTAGCGTGGTCGCGGCCCGAGGTACACTAAAAAGTATCCTTTTTCAGATATATTTAG
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GGAACCATTCTTTAATAATTAAAAACATGTCCTTGGTGGTTANGGTTTAAAGCCACCAAA
AAAAATGTTTGGTGAACCCCTGGAANCCAAATTATTCCCAAGGGTNTTNTTCACCCCAAG
GGGTNTTNTANNTTTTAAAAAA
Sequence 5455
TTNTTNTAATTATTTTNNNNNNCTNNNNNNNNANNAAGGTATNNGGCGAATGGGCCCTCT

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ATNGCATGCTCGAGCGGCGCATnnnnnnnnnnnnnnnnnnnnnnnnCCCTTAGCGTGGTC
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ATCTGCCCCATGAATAACACAGCACCTGTAGGATTATGTCGGATGAAAAACAGAAAAGGT
CTGTCTACTATAAACCAGGGAGGCGATGATCTTGCAATGCCCGCGTACACTAGGTAATAA
AACTGATTCATACAGTCTAATGATATCACCGCTGTTAGGGTTTATAAAACCGCATTTAAA
AAAGA

Sequence 5456
CCCTTAGCGTGGTCGCGGCCGAGGTACATGATACTTGTAGCTAGACTACCTCTATTTGAA
TCTCAACTCTTATTTCTTATGTGACCTTGGGCAAATTACTTAACCTCTGTGTGCCCAGTT
TCCTCTCCTGTAAAATGAATATATTGGAACCTGTCTTATAGGTTTATGGTTAAACGTGCA
GGCACTTAGTAAGCATTACATAAGTCTTAGCTATTGATGCTTTTTTTTATTAGTAAAAAT
GTAAATGCCAATTTTCTATTTTTCTTCTCCCCATCCTGATACCCATATCAGTGTGATCT

Sequence 5457
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CATCAAGTTCTTCTTTAACCAGAGAGGCTTCGGGTTTCAGACACACAGAAGCATAATTCT
GGCCATACAAAAACCTCAATGTTTCTTCTGTCTTCCACTCAATCAAAGTCTCCTTCAAAA
CTTTAAGTAAGTTTCTCTTTCCAACTTCAGGACACACCTGCACTGAACTAGACACTGACC
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AGTTCACATGTAGCATCTTTCTCCTGACTATCTAATTTGCAATCGCCTAACTGCTCAGTG
ACATCTACTACTGNCTGTTCTTTGTCTTTGGGTTTGGAGTTAAGCTTTGGTGACCAGCTT
TCTTTTTCATTATGC

Sequence 5458
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TACCAGTATGCAACCGAGGATGGACTTATACACACAAATGACCAGGCCAGGACTCTACCC
AAAGAATGGGTTTGTATTTAAGGGCCCCAGCAGTTAGAACATCCTCAGAAAAGAAGTGTT
TGAAAGATGTATGGTGGATCTTGAAACCTCCAGACACCAAGAAAACTTCTAGCAAATTCA
GGGGGAAGTTTGTCTACACTCAGGCTGCAGTATTTTCAGCAAACTTG

Sequence 5459
CGCCAGTTGTGATGGGATATCTGCAGAATTCGCCCTTTAGCGGCCCGCCCGGGCAGGTAC
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CAGAATTGTCAAATGACCTGCTGGGGGAGGTTGTAGGAAGTTTAACAGATTTGAGTGTGG
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CCTNTCCCTTGGAAACTGACT

Sequence 5460
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TGTCTCTGATAAAAGAATAAAAGCTGTTTATTGCAGTCCTAAAAAAAAAAAAAAAAAAAA
AAAAAAANNNNCCNGGNCCGCNNNCNCNNTGNGGGNAANTNCCNCCCCNNGGGGGGCNCN

TABLE 1A
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TNTTANGGGANCNACTTGGGNGNCCAAGGGGGGAGAANAGCGGTGAACCTGGAATGTGGG
NGGTNGCAGTGAGGTCNAGATCCTGCCCACTTGCACTCCAGCCTGGGGCAACCAAGCGAG
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Sequence 5461
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CNGGGGCCCCCAAAAATTTTTGGGNNAAAAACNNANGNGGGCCCCCCCCNTTTTTTANNA
NGGGGGGAAAAAAA
Sequence 5462
CCCTTAGCGGCCGNCNGGNCAGGNACANANCTNANAATTNTGNNGCTAATGACACTGGCT
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CCATCTNCGTNGCTATGGATGCANGCCATTCGNCCTTCCANNTCTACAAATNAGGCATTT
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GNTTTGAANGANCAAATTNGAATAACANCANGTATTGGNTCGTGNAAAANANCTGGGGTC
CATAANGGGGCTNCGAATGGCTATNTNAAAATACCCNACNACANGAACANCCACTGTGGA
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TTCAAGAACCNCNATGTTAATTTTTAANAAATTTTTGGNAANTTTTTNTTTTTTTAA
Sequence 5463
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AAGGAAAAATCACTTGAAGCCNNGAAGCANAGNGGAGCAGTGANCCNANNATTGGGCCAC
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ACAAC
Sequence 5464
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Sequence 5465
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAATTTTTAAATTATATTTTTTGTAGTAATA
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TAAACAACTTCAATGGATTTTGGAAATAGCCATTATAAACAATCTTATAACTGAAGGTTT
TATTTTTACTAATAATTTAAGTTGTGTTATTCTTATACATATTTAGGTTTTGAAATTTTT
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AAGGCAGGTGGATCACCTGAGGTTGGGAGTTTCNAGACAAGCCTGACCAACATGGAGAAA
CCCACATCTCTACTAAAAATACAAGAATTAGCCAGGCCGTGGTGGTGCATG
Sequence 5466
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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTTTT

TABLE 1A
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TTTTTTTTTTTTTTTCCCCCCCCTNAAAAAAAANANNNAAANCNNTTNNANNNNAAAAANT
TTTTTNNANNCNCNNNNAANNNCCCNNTNANAAAAAAAAAANAAAAAAAAAAATTTTTTTT
TTTTTAAAAAAAAAANNCCCCCCCNTTTTTTNNNTNAAAAATNTTTNNCNNTNANTTTTT
TTTATGGGNAAAANNTTTTAAAAAAANTTTNNNAAATTTTTTTAA
Sequence 5467
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TCTAAACATTCTGATTTTGAAGGTGGGTGTTGGAACGACTGATGATGTTTTTTATATCAT
CAATTCAGCCAATGGATGCGAACTTAAAATCTGGATTCACAGAACCGTGGTCACATTTCC
CCATCAAAATCCCCAAGGCGGGTCCCAAGTTCTCTCCTCTACGCTCATTGCAGAAATACT
TTGAAATAGGTTCTGCCAGTCTACAATAGCAGTGAAGACTGACAAATCAGATATTCCCAA
TGACTGACAG
Sequence 5468
NCCCTTAGCGTGGTCNCGGCCGAGGTACCTGGGAAGCAGCTCCCACAACGGCTGAGGCAC
TCANAGGCAGAGCTTTCTGCTTCTGTCTCATGCCGTTCCTGTGTTGATNTGGATNAGTCA
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GGAACCAATTCCCTCNTTAAAAATATTGTTAAANNCCTTTTCNACNGTTTNGANTACNAN
TGTTAATATCTTACTAAAACCCAAGCTGTANTTAATTTAATTTNATCCNTTTTNGTTTTC
AAATATCTTTTTANAAANAATTCCNTANTTTCAAAATATCAACCATTCNCATTTTNTTTT
NNCCCAAGNNTCNCTNNGNACCCAANNTNTAANAANGNAATNGNAAAAAAAAAAT
Sequence 5469
CCCTTAGCGTGGTCGCGGCCGAGGTACCGNTACACCCCNCTGCTNGGTTGGCTCCTCACT
CCCAACATCTACCTCAGCGAGCTCTTTGGAAAGTTTCTCTTCATCANCTGCGANCTCCTC
ACCGCTTTCCTCTTATACCGCCTGCTGCTGCTGAAGGGGCTGGGGCGCCNCCAGGCTTGT
GGCTACTGTGTCTTTTGGCTTNTTAACCCCCTGCCTATGGCAGTATCCAGCCGCGGTAAT
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Sequence 5470
TGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACACCGT
GCACCTGGGCAGTGATACGCTGGGCGACAGGAGAGCTCAGAGGATCAAGGCCTCGAAGTC
ATTCCGCACCCCGGTACTCNCACAGACCCATGTTAATGACCTCATGCTCGTGNAAGCTNA
ATAGCCAGGCCAGGCTTGTCATCCATGGTGAAAGAAAGTCAGGCTGCCCTCCCNTTGCNA
ACCCCTGGAACCACCTTGCACTTGTCTCCGCTTGGGCACTAACCACGAGCCAGATGTGGA
NCNTTTCCCTCTGACCTCATGTGCCGTGGATTGTCAAAGCTTAATCTCCCCCAAGACTTG
CACCNAAGGTTACAAGGACTTACTGGAAA
Sequence 5471
CCCTTAGCGTGGTCGCGGCCGAGGNACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGG
GGGTTGTTTTAAAAAGTGCTAACAAAGCCCACTATNAACAACAAAGGAATGATGCATTGN
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TACTCACAGGAATCAAACTGACAGCTACAGGAATGTTAGTAAACTTGTCTATGATAGGCA
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GNTTGGCTTTTACATTTATGGGTT
Sequence 5472
CCCTTCGGCCGCCCGGGCAGGTACTGTGCAGTAGTAACCATAATTCTAAATGAGGATTAT
GGATTTTTCTGGAAGATTCTTTTTTCCTGTGGAACATGATGAGAAATGTTTAGGAGAGGG
GACATAGCCATTTTTGTATGAAGACCAATTCAAGAAAAAAATATATGTATGTGTGTGGGT
GTATATG
Sequence 5473
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CTGGGAAGTTACTAAAGGGTGGAGAGCCCGACTTGCAGACTGTGGGTAAGATGGTCCTCA
ATGACTGGCAGAGGGGCCCGGATTCCTTTCTTTGTCAAGCCACCCAATGCAGAGCCACTT

TABLE 1A
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GTGGCCCCCCAGCTTCTACCCTCTCATCTTTGGAAAGTTGTCCCAGAAGCAGCCCAGAAC
AATCCAGGGGGAGGAAGTCACAAAAACTGCAGGTGAAGGGGTCAGAATCCATCATTAAGG
AAAGAAACAGAAGAAAACAGTCACTGNGATGCTAACACAGAGATGCAGCAGATTCTCACA
CCAGTTCCGCAGAACTTTGGTAAAATCAACCGTGGTGCCCNAATTTTCTTGGGGATGACC
TGGGTTCCTGTGGAGGTGTCAAAATCTTTGAGGAAGAGCTTGAGAACCTTTTCTTGATGA
AAAAGGAAGGANGGAACNAGGGACCCACCAAAAAAAATGATGCCGGAAAAATTTTTCCTT
GGAACCCGGAGGAGGAAAATGTNGGAAAACCACNCCCANANCCGTTTTAAAAGCCCTGGA
TGAAAAAAATGGCCAATATTAAAAANTTTNTAGACCAAANCCAAACCCAAAAAGTTTTAC
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AAAA

Sequence 5474
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CCCTCACGGCTTCCGAAGGCCCCCAGCAAAAGATCTAACATTCTTGCTCAAAGTTGCNAG
AGAAAGTATCACATGGAGTAGCTGGGTTGGGGCGGCGGCCTCTTCTNTTCAGCTNCCTTA
NCTTGGCTCCNTAAGTGGATCACTTACCAAATGCTTTAGATGATTGCCTCTCAATAATTG
AAAGGTGGNGGTAGTTGTATTGCTGCACTTGTCGGTGTTAAAGAGAAATTACTCTCACAA
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TCCTAGATT

Sequence 5475
CCCTTAGCGTGGTCGCGGCCGAGGTACACTGAATACTACAAAATATTGCTTAAATAAATT
ATTTGAAAAGCTAAATAAATGAAGTTATGTATAATGCTTATGAATTGGAATACTCAGTAA
GTATTGGGATGTCGAAGTTACCTCTCTTTNTTTTTTTTTTTTTTTTTTTNTTTTTGAGAT
GGAGTCTCGCTNTGTCACCCAGGCTGAAGTGCANTGGCGCGATCTCGGNTCACTGNAAGC
TCCGCCTNCTGGGTTCACGCCATTCTCCTGCCTNANCCTCCCAAGTAGCTGGGACTACAG
GCACCCGCCACCACGCCAGNTAATTTTTTTGT

Sequence 5476
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TTACCANGGNTNCCAAAANANTTCCGGGGAAAANGGATTTTTTTNTNANTANTCANCAGN
GGGACAAGNGGAAATCCNCAANCAAAAAAATGAANCTGGNCCCCTNCTTCNCNTTTTTTT
TAAAANT

Sequence 5477
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TTGTGATAAGTGAACTGTTTAAAGGAAAGTTATACCATGAAGAAGGAACTCAGGAATGTG
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GCTTACCTTTTCTCAGAATCACCAGCCTTCTTCAGCACCACCTTTTTGGGGAAGATTTAC
CTAGCTGCCAGGAAGAAGAAGAATTTTCAGTTCTTGCCAGCTGCCTGGGACTTCTGCCAA
CGTTTTACCAAACAGAACATCCATTCATCAGTGCCTCCTGTCTGGATTGGCCAGTTCCAG
CATTTGATATTATAACTCAGTGGTGTTTTGAGATAAAATC

Sequence 5478
CCCTTAGCGTGGTCGCGGCCGAGGTACACGACATTTCTGCATATGGTCTGCTAATGGCAC
CGATGCTTCACATTCCAGGAAATGGTTACTTAGGGAAGGTTGATATGTGCTGCAGCATAA
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AATTTAAAATCTTAAAAAAATAAGGAACGGTTTAAAGGTAATTAATGAACTTTTCCTCAC
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CATCACGTTGGGAGGCCCAGGCGGGTGGATCACTTGAAAGTCAGGAGTTTGAGACCAGCC
TGTCCAACATAANCAAACCCTGTCTCTACTAANAATACAAAAATTAGCTGGGCCTTGTGG
CCGGGTGCCAGNAATCCTAGCTCTCAAGCGGNCAAGGCAGGACAATCCTTTGAACCCAGG

TABLE 1A

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AACNGAGGCTGCGTGAGCTGANACATGCCCTGCCTCCACCTTGGGGACAGAGCAGGAATC
CNTTCAAAAAAAGAA

Sequence 5479

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ACTTTCAAATATAGAAATGCTATGAGTGACATATGAACTATTAATTTTGTTTCCCATTAC
CTACAGGAAGAATTTATTCAAATAAAATTTTACAAGACAAAATGCAAATCTATATACCTA
TATAGAGATGTATATATGT

Sequence 5480

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CGTAAATCTAAAATTATTTAAAAAGAAATTATCTAAAAGAATTTAGTCTGTAATGAATTT
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GCATATAACTCCTAACTGAAAATCAGTGGTTATGGGGAGCAATTCTTAATAATAAGAACA
TGTCCTTGGTGTAGGNTTAAGCCCCAAAAAAAAAGGTGGNGGGNNCNCTGAANCCANATA
TTCCNCAAGGGTTNTTTTNNNCCCAAGGGTNTTTAGGTTTAAAAA

Sequence 5481

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TGGAAGACCTTAGNAAAATCAAAGATCAGTGAGTTCATCTGTAATATTTTTTTCACTTGC
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TNNAATACTTCNTCCTGCTTAACANGTCCTTGGAACTCATTCTGATCCATGNTTCACCAG
CAGGNTGGACAGNATATAATTTCGCATCATTNTTGNCCCTTGNAAATCAAGATGCTCTGC
ANATTATTTCCTTATAACGGNCGGACTTTTGGCTGNTTTCCTAATG

Sequence 5482

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GTTTGAATCTGTCATTCAAAGGCCAATAATTTAAGTTGCTATCAGCTGATATTAGTAGCT
TTGCAACCCTGATAGAGTAAATAAATTTTATGGGTGGGTGCCAAATACTGCTGTGAATCT
ATTTGTATAGTATCCATGAATGAATTTATG

Sequence 5483

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CACTGCTATGTGTCCTTTTCAAAATCTGTTCCTTTCATTACTTACTTAGAATAAGATCTC
TCTAAAATTTTAAATTAATAGCACAGAGAGAGAGGCTGGGAAAGCAGCCTTTTTATGTAA
ATGAAACCTCTTAGGTAGTAAAAAAAACC

Sequence 5484

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CCCATCTACCGCCTAACTCTGCAACAGAAACATTTCCCAGGACTGACTGGAAAGAGGAAT
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CCAGAAATAAGATAATTAACTTTGGAACTAAGGGGATATAAATGA

Sequence 5485

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TABLE 1A

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ANACCCGAAAAAGGAAAATTCTTTTAATTTTCTATAAATTTANATGTCTGATCCTCATCT
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CAATGGAATCAGCTAGTTCACATTTGAAAATGCAACTGCTAAAAGCTGTGGGATATTGCA
ATTTAAGTCCTGCAGCTCACAAGGCAAAGTGTGTAATTCTAAGAAGCATCAAAAGATA

Sequence 5486

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AGGTTTTTGAATTTTTTTTTTTAAATAAACACCTTCTTAAGTGCATGANAATGGTTTGAT
GGTTTGCTGCATTAAAGGTATTTTGGGCAAACAAAATTGGAGGGCAAGTGACTGCAGTTT
TGAGAATCAGTTTTGCCTTTGATGATTTTTGTTTNCACTGTGGAAATAAATGTTTGTAAA
TAAAGTGTAATAAAAATCCCTTTGCATTCTTTCTGGACCTTAAATGGTAGAAGAAAAGGC
TCGTGAACCCATTTGTTTCTTTTGGCTGGGTATAGTTGCTAATTCTA

Sequence 5487

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACA
CGCCCTCCATCAGCAAACCGCTAGCAAAGGGAGAAGTCTCGGGTTTGACAAAGGACTTCA
GAAATGGCNTNGGGAACCAGCTGAGTTCAGGGATCCCACACNTNTGNTGCNTCTCAGTGT
GACTNANCANNTTCCAAATGGNGNTTGCCNATCCCANGGTTACNTNANANANTGCCNCTN
AGAGATGTCCCGTGGCCCTTGGNTCTGCTGGGTCTTTTTT

Sequence 5488

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CATTTATTTTGGATGCGATCTCAGGAGGCAACAGTAAGAGAGTGAGAAAGTGAGGCCAGG
AAGGGAAGGCAAGACAGGGGTGTCAATGAGCAGGTTACCAGGGTTGGACAATGGGAGCTT
GAGCCTGCTGGGGACTTGTGGGAGATTGCATAGAGCACATCTCAGGGCTGTTCCACCTGA
GAGGGGAGGAAGCTGAGAATGTATCCACCAGCTCCATTTGTCATTGGTAGAGAGCTACTT
CTAAGGGCA

Sequence 5489

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ACGATTACTCAAAAAGCAGAGATGGATATTGCTCTAGGCTTGCTTGTGTTCTCCTAAAAT
TCATATGTTGAATTGAATTTCATCACCCAAAGTGACGGCACTTGCAGATGGGCCTTTGGG
AGCTAATTATGTTGAGATGAGGTTGTGAGGGTAGTGCCCTCATGATGAGGCTACAACCCT
TATACAAAGAGTCACCAGAGAGCTTGCTTTCTCCCAATCTCCACCATGTGTGGACACAGG
GAGAAGGCAGCCATCTGCAAACCAGAAAA

Sequence 5490

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AATCTTAGAGTTGGAAGAGATGTAATCCGGCTCAGCCTCCCAGGATAAAGGAACTTCCTT
TTGAAACACCCTGGATGGCTACTCTCTGCTTGAGTGTTTTGAGCGGAGGGCACTCTGTGT
CTGACAGGGTGATTATGAGCCAGGATGTGCCTACCTCTAATGCTCACATTTGCCCCAGAG
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CAGATAGGAACAGGGCTAGGAGAAATCTT

Sequence 5491

CACCAAAGAATTTGGTTCTTCTTGAGGTCCCCACAAACCAGCCGTTATCACACTTTTCCA
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TATACANAGCCTGAAACGGTTCCCCTCCGTGAAAGTGTGGATTCCTACTTCCTGCTCTAA
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NCANTTCCCCNCCCNTTTTTTTTTTTTTTTTAAAAANCAAANAATTTTTNCANNTTTTCNN
NCCCCNGGGGNNGGNGNCCNCCNTTAACTGNNNNCTTTNNGGNTTNCCCNTTAA

Sequence 5492

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GAAATCCAAACTTAGAGTGCCTTGTATTTAGAATCCGGAAGGAAAAGGAAATGAAATGTG

TABLE 1A
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AAGAAACTCATGCACCAAACTCGAACTGGTAAGAAGACTGTTAGAATGCCCTCGGTAACA
CAGAGGCTGAGAGATCCTGACATAAATCCTTGTTTGTCGATCCTGTTCTACCTTTTAAAT
GATGC
Sequence 5493
ACCAAATTAAAGGTTTGTTCCCAACTGGAAGCAGAGGTTTGGGAATGCTGGAAGTTAGGT
CTGTCATCCGAGATCCTCCACCTACTGCCATCACTACTGCTTGAAATTCCATTTTTACAA
ACCGGGTCAGCCAGCTTGTGTGCGGCCTGGCAGGGCAGAAGTCACAGCTATAACTCAGCT
CCCCGCACGCCGCAACCGCTCCCAGCGATCTCCCCCGCGTACC
Sequence 5494
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCATCTATGAACCAAAAAACCTCAGACATTGA
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TGTTGCTTATATGTTATTTCATTATAGCAGCCTGAATGGACTAAGATATTTGCCAGTAAC
ATTTGACTTCAGGTCCTCTGCTCTTGCTTTTCCTCTCTCAGGAACACTTTCTACCCAGCC
TTTCACATGGCTATCTTCTCACCCTCAGCTCTTTGGCTGAAATGTCAGAGGGTCTTCCC
Sequence 5495
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AANNACCCNNGGGGGGGGGGNCCCCCCCCCCCTTTNAAAAANAAAANNCNNNNNATATAA
NATACCCNNCNCNCCCCNNGGGGNNGANCANANCTNATACTTAATTAANGTTTTANACAC
ACCNGNTNCCCAGGGNGGGCNCANNNAAAAAGAAGNGGGGGAGGNGTTATNNCCCNNNGG
GGGGGAAAAAAAAACANTNTTTTTAAAAAAAAAAAANGGGCCCGCNCNANACTGTAAACA
ANAANCCAGNGGGCCCCCNNNCCCCGGNGNNNGGGNTNACNNCCCCGGNGGGGGGGGNNA
TANAAAAGGNNAGCCCCCCGCANAAAAANNCTNTGGGGGTNAAAAAAANTTAAAAATTT
Sequence 5496
CCCTTAGCGTGGTCGCGGCCGAGGTACTCTGTAAACAAAACAAAGTTATATCACCAAGTG
CCTTCCCCGAATTCGCTCCCTCAAACCAACCACACAGTTCTGACCACTCTACAGTCATGG
CCTGTCATCAGAGCTTTGTATGAAATTAAGTCAAAGTGTGGAGCTCCTTTTACTCATTTT
TTTTTTCTCCTTAAAAAANAAAAGAANCAAATGTTCCANGTAAAAACAAACGTNTCCCAA
AGCATGTGTGCNTTGAAAAGTAAAGAAACATTATAACANCTTCATAAAAACTGACTTAAA
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Sequence 5497
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Sequence 5498
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AAAAAAAAAAAGNGGGGGGGGNGGNGGGNNNNNACCCTATCTTTTTTTTGGAANAGANAA
AAAAA
Sequence 5499
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TABLE 1A
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GGGGGGGGGGGNCNNTTTTTTTTTNNAAAAANGGGNCCCTNTTTTTAAANCCCNTTTTTT
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Sequence 5500
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CNTGTAGTNCCCAGCTTCTTGGGAAGGCTANGTCAAGANAATTGGNTTGAACTTTGGGAA
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GNAAATGGNGACTTTTCCAAAAAAAAAA
Sequence 5501
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NNTCTCCCCCTCTCTCACNCCCGGGGGGGNGNGTNTGCNCNNNGTNNNATANNCNNGNGG
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NAANTANCCGAAGTGGNGGAGAAAAGTTGTTTTGCTTTTTTTTTGTGGGGAANAANAGGG
NGGTTCNCNTTTGNAANCCCCCCTTTTTGNGNGGGGGGGGAGATTTTNACANNTNTTTTT
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GGGNCTTTTTTTTNNNGGGACCCCCCCCCCCC
Sequence 5502
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GAAAAAAAAA
Sequence 5503
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CCCGGGTGTGGGNGGCACGCACCTGTGGGTCCCAGCTATTCAGGACGCTGAGGTATGAAG
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ACCTGGGTGACAGAACGAGACCCTGTCTCAAAAAAAAAAATTAAAAAAATTATTAANCCT
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TABLE 1A
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Sequence 5504
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCAAATTAATCAATAGTTCATCTTATTTACA
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AATCAGTCTACCAGGGCAAATAATGAGGTTACCACCTTAGTCCCTCTTCCCAACCCCATT
TTTTAGTTACTTTCCTTTCATTAAAATATCCTTATGCACTTACAAATAAAACTAAGTCCC
AAGAGGGCAACA

Sequence 5505
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TTTTTATTTATTTATTTATTTTTTGCCAAGGTTCAGGACAGATCCAGGTGTCTTTCTCCA
AAGATGATTATGATGGTGTTAATATTTAAAGGGGAAAGTGGCCTAGAGGGGAACAAGGGA
GGGTATGATCATATTACTGTATCCACATGTTGCAGGAGAAATGGAGCATGTACCTGCCCG
GGCGGCCGCTCGAAAGGG

Sequence 5506
CCCTTAGCGTGGTCGCGGCCGAGGTACCACTTTTTAAAGCTAGCTGTGTCGAGTTAAAGA
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nnnnnnnnnnnnnnnnnnnnCAACCCGGAAGCATnnnnnnnnnnnnnnnnnnnnnnnn
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CNGCCCACTGCTTAATGAATCGGNCAACCCC

Sequence 5507
CCCTTAGCGTGGTCGCGGCCGAGGTACTACAAGAAGCAAAGGTGTTGTTGCTCTGCCAAT
CAACATCCAATGCTGGTGCTGAATGAAAAGGAAACTGTTGCTTGGCTTCACCAGTATGTG
CGTCCCAAATAATTGTAGTCTTGTCTACTCCAGCACTTAGGATGAAATTTCCTTTCTTAT
TCCATTTTAATGCAAATATAGGGCCTTTATGCTGCCCTAAGGTGCTAGCAAGGTTACCAT
CTTTAGTCCATATTCTGGCAAACCCATCATAGGAACCAGTTGCTAGAAGTGTACCTGCCC
GGGCGGCCGCTCGAAAGGGCGAATTCCAGCA

Sequence 5508
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTTNTTTTTTTTTTT
TTTTTTTTNTGGGGGNNNAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTAANCAT
TACTTTTTATTTTGAAANATTTGNGAAACTNTTCACATNATGGGGANAGTTTGTATNATT
AANAAAAACCACNTTTTTCATNAAATGNTTGGAGGTNAACAANTTNTNACCCTNTGAAAT
CCCCCATCCCATTAACTTTAAANTTTNTTTTGATTAATAAAAAAAAAAAGGGGNGGGTGA
AAAAAAGGAGGAACTTNCTTAAACCCTTATAACAATCNTCCAAATTTNANNAAAAAACAN
CCCATTCNCCAACTNCACTTTTTTTATTTTACAACTTTNTACATNTCACTNTTAATTTTG
GCCTTCCTGGCTAAAACANCCCTGNCANTCCCTAAGGCCCCTAAAAAAAACCNTGTTTNT
CCAAAAAACAAANGAGGGAAAACCCTTCCAANAAACCCTNACCCCTTTCCAAAAAAACCN
NCAATNCCTTTNTTCCAAAAATTTTAACCNACCCCCTANTTTTAAAAAAAACTCCCTTTA
AAGGTAAAAGGAAGAAATGTTATAACCTNCCCTTTTTTTAAAANTTTTNTTTTTTTTAAA

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AAACCCCA
Sequence 5509
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGATCTTCTCA
TTGGAGAGAGCTAAGATATCTTGGTATGCACACATACACACATTTAAAGACAAACTGTGC
CCTGAGTGCATACTGACAATTCCTATGCAAATTCAAAACTGTAGGGATTTTAACCTCCTT
TATCTTACATCTTTATCCTCTTTCAACTATGTTTTCAGAAGAGTTGTATATTTTAAGGCA
TATTGACTAAGGAAAAGTGACGTTATTAACCAGCCGTGTGAATGACTAGCCTGGCCTTTT
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TACAGTTTAAAAGTGAACTGGCTTGAGACCTAGTTTTGCAAAGGGTTGAACCTTTAAATA
TATGAAAAAATGTTCGCAGTGTTGGGCTCCTTAGTTTGATTTGGCCAAG
Sequence 5510
CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTATTAGTTTTCTATGCTGCTGTAACAAATT
GTCACAAATTAGTTATCTTCCAGTTCTGGAGGTCAAAGTCTAAAATCAAGGTGTCAGCAG
GACTGCATTCCTTNTGGAGGCTCTAGGGAANAATTCNTTTCCTTGCCCTTTTCAGCTTCT
ACAGGCCACCAATGCTTCTTGGCTCATGACCCCCTTTCACATCACTCCAACCTCTTGGGT
TCATTACTACCGTCTCCTGCTACCACTCTGAGCCGCCTGCCTCTCATTTAGAAACACCTT
TTGGGGCCATCTTGAAAAAATCAAAATTGCTCTCCCCATCTCGAGACACTTAAATTTAAT
TATTATATGAAAAGGTCTTTTTGCTATGGNAGGGAGGGTATACCTCACAGGTGGCCATAG
ATTAGGAATGTGGGGGATCTTTGAAANGTGTTGTTGGTAAACCTGGCACAAATTCCCCAC
GAACTCACACTTNAATGTGTGGATTTTTTCTGCCCTGGGTTTTTCTGGGTCAATTCTTG
Sequence 5511
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NCCGGNCAGGTACAACNNANGCNTGGGAAGATCATGATAATGTTTTACATCACATTTTAC
AGCATTTTATTTTAATCAGTATTTGTAGAAAACAAGGATGCTGAGTTCTTGAACACTGCA
NTCACAAACTCAAACTAAAATTTCCAAAAAAAGGAAANAAAACACTNAACTACTTGNTCA
ACTNAACATCTTTAATAATAAATGTAACCAAACCTAACCAAATAAATATTCCACTGAAAT
CACACTTNAATGTATNGTTTTTAATGTGTTCCCAAAACCATTAAATTATTTTAATCAATT
TTTTAACTTCCACCCCAAAAACAAAACCATTCCTTTTTTTTTTNCCTTAAATAAATTTAA
TTCTTAAAAAATTANCCTTTNAAAAAACCAAAAACCTTTCTTNTTTTAAAAAAAAAATTT
TNTTCTTTTANCTTTTTAAACCTTTCTTNTTAACCCACCCNAAACTTTAATTTAAAANCC
CCCNNCCTTACCNTTNNANCAAAATNCCTTCCCAAACCAACCCCAAAATTNTCCAAAACC
CCCTTTTTTTTTTCCTTTAAAAAATTT
Sequence 5512
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CTGAACATAAATTTAGAACTTACTTTGCCTACCTATTACAGAAGAACAAAAGATATTTGG
GCCTATTAAACCTTTCCTCTGCCATTTCCTGTCCTGTGTCATAGGACTAGGAATCGTGTT
TCTAGAAAGTATGAAATCGTGTGCTTGCAAACTTGGAAGAAAACAGTTCATGACTGCATA
CCTTCTAGTTCTCTAGTGTTCACTGGAAATTAAAGACACTAAAAGTTAACAATTCTTATT
AATTAATCATATTAATGTAATTGGAATTTCTAGAAATATTAGGGGAAGCAACTTTATACG
CAAAGCATAACAGAAAAATAAGGTGTATTTTTTCTTTGAAACCTATGAAATATACTGGCC
ANGNACCGGTGGCTCATGCTTGTNATCCCAGCACTTTTGGGAAGCTGANGNGGTGGATCA
CCTGAGCTCAGGAGTTCGANACCAGCCTNGCCAACATGTTNAAACCATTGTCTCTACTAA
AAATTCAAAAATTAGCCAGTCATNGGTGGCAGGGGCCCTGTAACCCCCANGTACTCCNGA
NGCTGAGGTGGGGAGAAATCGCTTNGACCCAGGAGGGGGNAGGTTGNANTGAACCAAAAT
ANCACCNTTGCACTCCAGNNTGGGCGACAAAAAAAGACTTTTTTTAAAAAAACNAAANGA
ATTNACNNAAAACTTTTTGCCANNAAAGGTGGGTTTTGTAAAANTAAAAATAATATGGGT
TAANTTGGAAATATTCAAAGGTNGTTCAAATGAGNNNTNAAAACTNTACCTGNGAAAAAA
AAAAAAAAAA
Sequence 5513
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CTAACAATTTTATATTTGTTAATGGTATTGGAAATAACATTTTTAAAATTTCAATTTCNT

TABLE 1A
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GATTGTTTAATATTAAAAAAATACCCTTTGATTTGTGTATATTAATCTTGAACTCTGCCA
CCTTGCTAACTCACTTATTAGTTCTAATAAGCTTTTATTTCATGGATTCCATGGACTGGT
GTACAGTGTGAGTCTCCGACCTTCACAGTTGGCCGTGGCACCCCAAAAGGCCTCTGCTGG
CATTTGCCTGTGATGACAAAGACGGCAAATATGACAGCAGCCGGGGAAGC
Sequence 5514
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAGCATAGTATCTGACCCACGACAGTCATT
TATTAAATATCTATTAAGTGAATGAATGAATGAATGAATTGCAGCCATTTGGCAAATGAA
AGCATTGCTTTGGTAGATTATTATTTCATATTTAGTATCTTGTAATAGTATAGCTGAGCC
TCCCTAATCCCAGGCCCTCTATCTGCTTGCACACCAGTGCTAAGATTATGGTTCCTAAAT
TCTTTTTTTCTTTCTCTTTTTTTTTTTTTTTTTTGGTTTTTTTTGAGATGGA
Sequence 5515
CCCTTAGCGTGGTCGCGGCCCGAGGTACCTTTTTTCTGAGCTCTGGTTTGCCTTTCTTGA
CTGTGGGCCATCACCATGTTACCCACACCANCAGCGGGGAAAGTNTTGTTCAGCNCGTCC
CTTGAATCCCCTTTCACGGGAAAATGATATACAGGGTTTTTGGCTCCTTGTGTTTGTNAG
CACAAATTGATTACAAGCTTCCTACCGGGAAGACCCAAAGGAAATTCTGGAAATTCGNAA
CCAAAAGGAANCCAACACCGTCCTCNCTTTNTACATTTTTGAACGCCGGAAAAAAAAAAA
AA
Sequence 5516
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ATACAGTAAGTAAAGTGGTTTTGTTTGTTTCTTTGAGATGGAGTCTTGCTCTGTCACCCA
GGCTGGAGTGCGGTGGCGCAATCTCGGCTCACTGCATCCTCTGCCTCCCGGGTTCAAGCA
ATTCTCCTGCCTCAGCTTCCCAAGTAGCTGGGATTACAGGCACGTGCCACCACGCCCAGC
TAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATATTGGTCACGTCACGTTGGTCT
TGAACTCCTGACCTTGTGATCCACCCCGCCTTGGCCTCCAAAGTGCTGGGATTACAGGTG
TGAGCCACCGTGCCCGGCCAAATAAAATGTTTTTTAAAATGGTTATGTGCATTATTCATA
AAAAATAATGGTGTCCAATCTTTTTAAACTTGTAAAAGACACATCTTATTTGAATAAAAG
AGATGAGAGCTTAAAGTTTGTAAAAAANAAAAAANNNNNNNNNNNNNNNNNGGTCCTTT
TTTTTTTTTTTTT
Sequence 5517
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CAGAATCTTCAATAGACACATCGGCCACACCATCTTTGTCAGCAGTCACATTGCCCAAGT
CTCCAACATGCCTCTCTTCATCCTTTGGCCCACCGTGTTTTCTGGATAGAGGATTAAAGT
GAGGACCTGCACTGGTACTGGGATTATATAGGCATGAGCCACTGAGCCTGGCCCTGAAGC
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GGATCTCTCTACAAGAGCCCCTGCCCCTCTGTTGGAGGCACAGTTTTAGAATAAGGAGGA
GGAGGGAGGAAAGAAAAAATGTAAAGGAGGGAGATCTTTCCCAGGCCGCACCATTTCTGT
CACTCACATGGACCCAAGATAAAAGAATGGCCAAACCCTCACAACCCCTGATGTTTGAAG
AGTTCCAAGTTGAAGGGAAACAAANAAGTGTTTTGATGGTGCCAGAAAAGGGCTTGCTCT
TCCNAAAAGCTNAAATTTAAATTTC
Sequence 5518
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CGAGGTCCCACTTCTGTTCCTCATCTCCAAAGCCTGAGGTTGCACCTCTGTTTCTCGTCT
CCAAAGCCCGAGGTCGCACTTCTGTTTCTTGTCTCCAAAGCCCGAGGTTGCAGCTCTGTT
TCTCACCTCCAAAGCCTGAGGTTGCACCTCTGTTCCTCGTTTCCAAAGCCTGAGGTTGCC
TGCAAGTCTCTTGAGGATTTTTTGGTGTAAACAGGTTGAGTTTCTGGATAGGTGGGCATA
TTGGCAGCTGAATATGTGGGTTTTGAGTGTGAAATACAGGTTCTTAGCTATGACCCAGCA
ATCTTCTACTTGTTCTGTGCTCTNCCACATAAAATTGCTTTTTCTTGATTGTATTTCATA
GAGCAATTTCTGAGGCTGG
Sequence 5519

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CCCTTTGGCCGCCCGGGCAGGTACCAAGTTTTCCCAGACAGTTTATACTAGCAATGTGAT
TGATGGTGAATACCTGCTTTTCACTGGAGGTCTAGAACTTGAATAACTAAGGNCANTCTT
NTANGGCCTACATGACTTGATAAGGGCTATATGCTGAGTCTTGGGTCCTGTGAGTCCTTT
TGGCAAATCTGCAGGCCTGAGGATAGTCAGGCATTCCTGCCACAGTCTAAAGAGCTATTC
ACCTAATACTACAATACCAGGGGGGTTCACCACGTATATATAAGCTAACCAACTCATTAC
CTTTTGTGTTCTTGTTTATGATCTTGGCCGTCAATTTTTTCTTTTTTTTTTNTTGGCCTGT
GA

Sequence 5520
CCCTTAGCGTGGTCGCGGCCGAGGTACAAGTCTGTTATAACATGTCTGAACAGGCTGTAG
TTGAAGGCACTCAGAAGGATAAGACATAAGTTTGAAAAGAGACTCTATCAAAGTAAAATA
AATTCTGCTAAAATTGAAACAAAAAGAAACATCAAATTTATGATGAGATCAGATGCAGTG
TCACCACACCCTGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATATTGGCCA
GGCTGGTCTTGAACTCGTGACCTCGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGA
TTACAGGGCATGAGCCACCCGCACCTGGCCCACATCAGTTTTACAAAAAAAAATTAACCT
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TCNAGAACAGGCTTGNTTAACATGGGTGGAAACCCCCCGTTTTTTCTTAAAAATTCCAAA
AATTAAACTTGGGGTNTGGTGGCAANAATNCCANNAATNCCAACTTCTTGGAAAGGTTGA
ACCCTAAAANNACTTGAACCCTCANAAGGCANANGGTTGCANTAGNCCNAAATGGCCCCN
TTTGNAATTNAANCCTTGNCCAAAANAANNNAAAACTTTTTTTTTNAAAAAAAAAAAAAAA
AAAAAAG

Sequence 5521
CCCTTAGCGGCCGCCCGGGCAGGTACTCTGGAGTCACCAGCCTCTGGTAGATTATCAAGC
ATCTCTTCCTCATCAGCCTTTTGTTTCTGTCTTGCATGCTTCTCTGTCCACTGTCTGGCA
TTCTTGAGGAAGGCTGGCTTATTATATTTAAATTCTGAGGACTGAGATGAAATCAAAGAA
AAGAGTTAATGGAGAAAAACATGATTTGCAGTGGTTAGAGCTGCTGCAGCTATCCTCACA
CAGGGAGAGTTAGCGGTATAGACAAGGTAGGATATGTGTTGCAGAGGAAAATGGGGATAT
TTACTATGTCAGCCATGAG

Sequence 5522
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATAATTTTATAACATTGTGCATTGATCATTT
GGAAAATATTGGTTCATTGAGTTATGGAGATCTTTCAAATGTTGGCACATTTAATTATAC
AATATAAAAAATTCATTAACATAATCACCAATTTATCAGAATGGTCTTTATGTATCTGGA
AATTATTAAAATTGTAGTAGACAAACATTTTTCAAAATTTTAGTTTCACTTGAAAGCCTG
AATTTATCAGTGGCAACAAATATTGNCAGTTATCTTCCTTGAAGTGTGAAGGAAACCNGA
CTCTGNCACCCCAAAATAT

Sequence 5523
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGTCAAAGGAGGCATTTAAACTAGAAGGTTT
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AAATCTAAGNTTTGAGTTNAAAAAAAGAAAAAACCATGTNGGACATTAAAACCACTTGAA
ATGGACAAAAGATGTTTANNAAATTANTTTGGATAATATATTTTTAAAGCAGCTCATCAT
AGAGAACACNTTCAGTGAAGCAAGTCCTAAGCACACTGAAAACAATGAAAATTTTAGGGA
ATCAGTTAGAGATACAAAGAAATGANNAATTTGGTAACTGAA

Sequence 5524
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCGGTTCCAGATGTGGATTTGGCAAAACC
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GTGGCNGTCAGGGAGGCTCCTGCCTGANCTTCCTTCCCCAACTTTGCTGTCTGAAANGAA
CCATAACAAGCCCACAAGCCGGAAAAAGCNTATCTAACNCCTATCTAAGCTTTGGTAACT
GCAGACAAATTACTTTTACCTTATTTAATNATACATTTCATTAAAGTCCAANTATAAATA
TTTTNTTAATATTTATTAAATNACTATANAATGCNACCTCCATTTACCAATAACTTATTT
TAAATATTCCTAATAACCACATATTTAATATAATTTCTAAAAACAAACCATCTTATAAAA
TATATTAATCCTTTGAAAAATATTAAAGCCTTAATAATATTAAAGTTTGTCACCNAATAA
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TABLE 1A
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TAATTGAACCCTTAAAATATNTTAATATTTNCCCACCNATTTTTAAATTCAAATATTTAA
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Sequence 5525
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CTGGCTAATTTTGGACTTCTGTCTGCAGATAGTAGGATGGTTCTGATTCTCCCAAATAAT
GNGGGTCTAGAGAAAAGGAAAAAG
Sequence 5526
CCCTTAGCGTGGTCGCGGCCGAGGACGCGGGGATTCCTGAAGCTGACAGCATTCGGGCCG
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CTATCCAGGGTACAACACTCTGCGTCTGGCTGAGCCACAAAGCCAGGGAAATAGCCAGGT
GCTACTGGATGCCCCTATCCAGTTGTCAAAGATAACGGAGAACTACGACTGTGGAACCAA
ACTTCCAGGACTGCTAAAGAGGGAACAGTCCTCGACAGTGAATGCAAAGAAGTTAGAGAA
GGCCGAGGCTCGACTTAAGGCAAAGC
Sequence 5527
ATTCGCCCTTANCGTGGTCGCGGCCGAGGTACCGTGCACCCCGCTCTTACCCTAAGTCCA
ACTCTTCCAAGGAGTATGTGTGACCTGGGATCTCCTTGCCCCACCTGACAAGGCTATGGG
GGTGTCTAGAATGTCTGAAAAGGGCCTGGGGCTGAACTCAAGCCTGTGGGCANGGTGCCC
GACAAANGCCTNCTGGTCACTCTGTCCCCTGCACTCCATGTATAAGTCCCTCTTGGGTTG
GGGGGTGGGGGGGGTGCCCTTGGTGGGAAAAACAAAAAANANGGAAAATGTGCTTTTTGTA
CCTTGCCCNG
Sequence 5528
CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGAAGCCTGGTTGAAGTCTTTTCCTTGAGAG
GCCTGGATTTGTTCACATATTCAGATTTCAACTGGCTTTATAACANGTTTTCTTTAANGT
GGCCNTAANAATTTGGCCTTCCAGGTTCACTTGGGT
Sequence 5529
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGCTTTANAGC
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GGTATAACATTATTAGCAACATTTACCCA
Sequence 5530
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
CTTTGTTTTTTTTTTTGCTCCTCGAATGACAATCAGTTTTATTGCATGAGTTATGGNGNC
CAAATGANTTAATTTGCTTTTTTCACCNTCTGAANNAAAANAAGGCCCCCCTGCCGGCCC
TCAATGCAAAAAANGGNAAAAAACTNGGATANATGATTTAANGCCC
Sequence 5531
CCCTTAGCGTGGTCGCGGCCGAGGTACACCTGCAAGGCTGTCAACAGTCTTGGAGAAGCC
ACCTGCACAGCAGAGCTCATTGTGGAAACGATGGAGGAAGGTGAAGGGGAAGGGGAAGAG
GAAGAAGAGTGAAACAAAGCCAGANAAAAGCANTTTCTAAGTCATATTAAAAGGACTATT
TCTCTAAAACTCAAAAAAAAAAAAAAACTCAAAATAATAAAANCACCTAATGTGATAAAT
TATCGGTTAAGTCATTTGTGGGTTGATTCTTCAAAAACAACATTNATACCTAACANCATT
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ACCCAACCCAAATATTTATCTTTANCCAAAATCATTAAAATTCTTCCACTTTTAATTCCC
CTCATTTAAAAAATAAAGCCCAAAACCAAAAATTTCTTGANCCNCCAACTTCAAACCCAA
AAGGTTCCCTGGGGNATNAGNAAAGCCCTTTTTTTNTTCCCCACCCCCCTTACTTNTAAA
AAAACTTAATTTTTTNTTCCCAATACCCTNCCCNAACCAACCCCCT
Sequence 5532
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTAATCGGCACACCAATAGACATCTTGGCAGG
AAGAGAGTTCGGCTCTGGCCTACTTTTCTTCTCTTCGGTCCGCTGCGAAAGATGCTACGG

TABLE 1A
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CGAAGGCGTGAGTCAAGCGAATGGCCCCCGCGTACCTGCCCGGGCGGCCGNTCGAAAGGG
CGAATTCCAGCACACTGGCGGCT
Sequence 5533
ACTTT

TABLE 1A
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CCCTTAGCGTGGTCGCGGCCGAGGTACTTTCTTTAGTGAAGTGAATGTATGGTTNTAAGG
ACATACAACCACCGNTTGACGAGGTCCANCCTTGATATTCAGTTGTCCACACAACATCAT
TCCAGCTATGGCATACCTGTTTTCCTGCATTCGTTAAGGAACAAGGGTCTTGATAGGGGG
AGCCTTTTATCTTAAAGGGGCAGAGATACTTCTCTGAGTCTGAGAGTTACTTTTGACTTT
GGAGATCTCCACAGGGTATNACAAGACATGCATCGAAGGTAATAGTTTGGGGTGAGCTTG
ACCTGNTTACATTAATAATGAGGTGGTCAGCCATATAATGAGGAAAGAAGAAGGAGTANT
ATAATAGATGAAGGAGAGTTAAACTTTTTCTTAACCGTTAGTTTGGTAGGGTTTTCCCCT
GG

Sequence 5539

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAAGCCAGCCACGCTGCGCCCGGCCCTGCCCC
GGGCCTTCCTCGTGCCTGGGAGGTCGTTCTAGGGATGCTCCTGACCTCCGTCTCTTGGAC
CTAANATGGAATGTGTCCCCAGCTCAGGGATTGCCTGAACCAAGAGGCCAGGAGCCCCCA
TGGGCCGCCCAGTACCTGCCCGGGCGGCCGNTCGAAAGGGCNnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnn

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Sequence 5544
CCCTTAGCGTGGTCGCGGCCGAGGTACACATTCCCAGCTTACACTGCCTTCTTGTTTCAG
TTCTCAATACTCTCAACAGTGTTCTTTTCATGGTCTATTTAATGCACATTTTTTGCATTT
TGTGCTTCTTCTTGATGATCGTGCTGCTCAAAAGGAGCCCCAAGCATAGTGCTGAAGTGC
CGTCTAGTGTTCCTAAGTGCAAGAAAGCTGTTATGTGTCTCACAGAGAAAATACATGTGT
TAGATAAACTCAGTTCAGGCATGGGTTTGACCGCTATTGACCATAAGTAGATTAAAAAAG
GTGTCTTTAAAACAGAAACACATGANGATTATGTATAGGTCGGTCAAAA
Sequence 5545
CCCTTGGCCGCCCGGGCAGGTACAGCTCAAGGCGGCCGANAAATAGTAACCTTCCAGCTG
CGCCATTCCAGCTCCCACAGCCACTGCCCAAGAACCTACTCCTGGAAAATTCTGAGCCTG
GAAACCCGAGCTGGAAACTTGGGCTCGAAATGCCCCGCGTACCTCGGCCGCGACCACGCT
AAGGG
Sequence 5546
CCCTTAGCGTGGTCGCGGCCGAGGTACCACCACGCCTAGATAATTTTTTGTATTTTTAAT
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CTGCCTGGGCCTCCCAAAGTGCTGGGACTACAGGCATAAGCCAGCACACCTGGCCGTTAA
ACTAGTTATTTTAATCATGCTACACAAAGAAGACATTTCTCCAAAGGAAATATATAAAGG
GAAACACTGTTGAAATAAATGGAAAGCTAAAAGTCTCAGCATAGAAGCTATAAAAAGAAA
CAAGTGGAAATTGTAGAACTGAAAATACAATACCAAATTTACTGGGAAGGGTCTNAACAC
AATGAAAAATGACTTGAGGGAAAGAAGTCAGTAAATTTTGAAGATCCTTGAGCCGGAAAT
TATTTTAGTTCTTGAATGACCGGAANAAAAAAAAGTGGAAAAAAAATGGNGAAAAACCTT
TTGGGGGATCTGGGGGGGACAATTTTGAAAACAGGTCTTAATATTCATGGTCTTAAGGAG
CCCCAAAAAAAGAACAAANTTGGGAAGAAA
Sequence 5547
GGTACGCGGGATGTATTTTAATTAGATTGTGTCTAATTAGTTTCTATCTAAAGTGCTATG
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AATAATTTGAAAGGGNTTTTGAATTGGGACTATTTCTTTTTTTTTCAATCCACTCAACAT
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TTAATTATTGAGGATGAGAAGAAATGGTTTGACTTAAGATATTATAGATAACTTAAGGGC
CACTTAAACTTTTTTTCCCCTATGTAAGAAATAAAGNGCCCTTGGAAAATACCAAAAAAA
AAAAAAAAAA
Sequence 5548
CCCTTGGCCGCCCGGGCAGGTACATTCTGTGCTGCTGTAACAGAATTGAAGGCTAGGAAG
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AGGCAAAAGGGCAAAGAGGGGGTGAGCTCATCCTTTTATATAAGGGAACCATTCCTGTGA
TAATGGCATTAATCCATTCATGAAGGAAGAGCCCTCCTGTTTGAACCACTTCTTAAAGGT
CACACCTCANAACACATTGCATTCAGGATTAAGTTTCCAACACGTGAACTCTGGG
Sequence 5549
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCACACGTGCACGCACTGAGGCCATTGTTAA
AGGAGCTCTTTCCTACCTGTGTGAGTCAGAGCCCTCTGGGTTTGTGGGAAGCACACANGC
CTGCCCCTCTCCAGCCAGCTCCCTGGAGTCGTGTGTCCTGGCGGTGTCCCTGCAAGAACT
GGTTCTGCCAAGCCTGCTCAATTTTGGGCCTAGCTGTTTTTGATGAAGCCTTTTGTCTGG
TTCTCCTTCCACCCTGCTGGCT
Sequence 5550
CCCTTAGCGTGGTCGCGGCCGAGGTACTGATTTACGAAGAGAATGATCATGAAGGGCAAA
TGGCGGTGAAGCAAGAAGAGCTGGCTTCAGGCTCAGAAGAGAATGCTGTGCCTCTTCCTC
ATGGTTTGCGGTGCCCTGCATGTTCAGAGAAACTTCTCTAGTAATGAATGAACTATAGAA
ATGATCCCTGACAAAAAAAAAAAAAAAAAAAAANCCCTTTTTTTTTTTTTTTTTTTTTT
Sequence 5551
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCGGGAGAGAGGCCGAGATGGCAGATGA

TABLE 1A
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GATTGCCAAGGCTCAGGTCGCTCGGCTGGTGGCGACACGATCTTTGGGAAGATCATCCGC
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GTGGCAGAAGATGATGATGAAAGTCTTCTTGGACACTTAATGATTGTTGGCAAGAAATGT
GCTGCTGATCTGGGCCTGAATAAGGGTTATNGAATGGTGGTGAATGAAGGGTTCAGATGG
TGGACAGTCTGTCTATCACGTTCATCTCATGTTCTTTGGAGGTCGGCAAAATGCATTGGC
CTCCTGGTTAAACACCGTTTTTGGGGGATAAATTTTTCTCTTCTTTAGGCCAATGATTAA
ATTTAGGGCCATTTTTTNNGTTTTGTTAAAGGTTACCACCCCTTATTTTTTGCCTGGGGTG
NTGGGAGAGGATNCCAAAGAAAATAAATTTTTAAACCCGCNTTCCNTTATTAAAAAGACC
TTGNTTGCATNGGCTTAAAAAAAAAAAAAAAA

Sequence 5552
CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATACATCTTATNATAACATAGGATGAGAAG
TTTTCAAGAATNAAAATGTNCCTTGAAAAGTTTCACACACTNNTTCTCACAATTGGTTAA
ACAATCATTTTTTTTTCTTCTCTTTTCCTCTCATTTAAATCTCATNACCCTAAAAAAAAA
ATNCCTTCCAATCTCTATTAACCCCCCATACTTTAAAATTAAAATTAAACAAANATNTTA
CCTTTAAAAANAGAAAACTTATATTNTCTTTTTCAAAATTATNAAAAAATTTNCCCCCCT
CTTTATAAAAATATAATCTTTTTCCCCTCCTCCTAATTTTTATCAAATTATNAAACCATT
TTAACCCCANCAACCCATTTATTNTAANAAAAAAAACCACCCNACCCCTCCAATTAAAAC
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ACCCCCTTTCNCCAATAA

Sequence 5553
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AAGTGTCAGGGACTTACTGTTGACACAGAAGGAGCGGCTGAAAGGAGTTATTGACCTGGT
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TGTTNCTGTGTGAAAATGGTATCCGTCACAATTCCACACACATACNAGCCGGAA

Sequence 5554
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCC
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TTTACNTAAGGAANTNCCCCANCNTTTAATCCAAAANCCTTTTTNTTTAANTAGGTTTTT
TCCCAAAAAACCCTNTTATTTATTATTCAANTTCCCCNAAAAATTTTATNAAAANTTTAN
AATTTCTATTNAGNAAATCTCCTTNANAAAAGNTTAAAGAAATTGNAAAATTTCCCCCTG
GAAAACCTAACNGGGGNAANNTGCCCCAACTTTTTTTTTTCCNAAAANNTTCAAAANTGN
AAANCNNGGAGGGGATNTTTGGGGATTGGTGGGNTTTTAGTTGNATAAAAANTAAAGGAG
NGTTTNATNTGGNANAANCCTTTTTATTGTGGCCCCTTGTTTAGGNCNTTNNTAAAAAAA
ATGGCCCAAACTTTTTAACTTNGNNGNCCCTTTTTGGNCATAAAACNAGGGGNATTNACC
NATTTTTTTTTTTANANAAAAAAAATTNTTGGNATCCCANAAAAAAN

Sequence 5555
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCAAAGGATAGATTTTTGCCTGTTTAT
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TATAGAGCAGACTCACACCAGAACTACATTCCCTGGCCCCCTGCCTGTGTGCTTCTGGCC
AGGCCTTGGTTGGCAAGTCTGACCTGAGAAAAGGATCTGCAGAAAATCAGACTATGGGAT
CACTTTGTTTGTGCATTGGGAATGACATTCTTTCCCACCCCAGGAAAACCTTTGGGACTT
TCAG

Sequence 5556
CCCTTAGCGTGGTCGCGGCCGAGGGACTCAGAANNNNNNNTTTTTNTTGTTTTTCGAAGA
AANAGTGTTCACTCTTGTTGCCCATGCTGGAGTGCAATGGCACCATCTTGGCTCACTGCA
ACCTTCGTCCCCCGGGTTTGAGAGATTCTCCTNACTCAACCTCCCAANTATTTGGGATTA

TABLE 1A
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CAANCACCCCCCAACACNTNTGGCCAATTTTTTNTATTTTTAATAAAAACAGANTTTCCCC
ACTTNTAGCCAATCTTTTTNTNTAACCCCTTACTTNTAGCAATNCACCCTCCTTATCCTNC
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AGAAAACAAACCTCNCTTNTTTTTACTNAANTTTTTCNAAGGTCAAAGCAAAATTCCAANA
ACCAACTTNCCAAGCTTTTTTAAANAAAGNNCAATAAACCCTTCCNCTTCNTTTTTCCTA
AAATTAAANAAAACTTTTTTTCNGGNNACTTTAATTTCCNAANAAAAAAAAAACCTTNAA
ATTATTTTTTTTAATAAATTCTAAAAANCTNAANTTTCNCTTTTTNAACCAACCCCAATA
ACACAANTTNNATAACCTCCTAAANANAAACCATTCTTTCTAAATAAAAAA
Sequence 5557
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TGCTTGTTTTATTTGAAACATTTAGGCTGTGTCCAGTTTGGGAGGTCTACCGTTTTCCTG
AATTTNTACACCCTTCCCCNAGATATACCTACACTTTTAAAAAAATTTGCTNCATTGCAT
CTGGGACTCATGNNATTTATTTACTACCAACAACTTTTANAAAATATTTTAATTGGCCCC
CTT
Sequence 5558
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TTCAGCCGGCGTGGCTTCTCTATTAAATGGTAATGGCTTCAGGTTAACATCAAGCTGGAC
CTCTAAGTCAGAAGATCGGGTATGAGGCAAAATCATATGGTGCTTGACGTACAGCTGGAA
ACGCTGAGTATTCGAGGAAATAACATTCGGTATTTTATTCTACCAGACAGTTTACCTCTG
GATACACTACTTGTGGATGTTGAACCTAAGG
Sequence 5559
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CAGACCNTGTACANTGGTNAGGAAAAAGATAATGGGGAATCCAGGCCGGNGGGGGTCTAC
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Sequence 5560
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Sequence 5561
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TABLE 1A
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TTTCAGNANGCATGTNTCCCTGNCAANGNTATANTGGCAGCCCCTGGCTC
Sequence 5562
CCCTTAGCGTGGTCGCGGCCGAGGTACGGAAGCGTGTGGTCTGCAAGCGTGGGGTCTGCG
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GTTCTTGAAACAATATCATTTATTTTAG
Sequence 5563
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CACTTNCTGAAGACTTAAAAGANGGGGCACCAAGAATTCTTTAACCTCTTGGTGGATACA
CCANTCAANGGTTAACTGNCTTCATTTAAA
Sequence 5564
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AAAGCTTTATTTAAGCAAAA
Sequence 5565
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Sequence 5566
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CATACAGAGAAGAGCGAGAGATTCATGCCACCGCTTACTATAAAGTGGACGACCCAGTGT
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Sequence 5567
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CCTTNNTTTAAAAAAAATTTTTTNNTCNCCCCCNNCNCCNATTTTCAAANNAAANTTAAA
TTANAANNTNNTTNATTTTAAAANNTNTNATCCAANAAAANTNNAAANNNAANCTTTTNN
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TANATANGGGAACCNATTTTTTTTTTTTAAAAAAAAA

TABLE 1A

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Sequence 5568
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AGCTTAANCTTGTCTGAGTTCATACATCTTGGATTTTGACAGGAAGCTTTTCCCGGTTCA
CCTGGAGAACTTGGCTCGAGGTTGTCATTCTTCCNACTTGAACCAATGAAGGTCTTTCAA
AACCCTTTTTCAAGCCAACATCCCACTTTGTTGAAAGTTTTTAAAATATTGCTTCAAGGG
AAGTATTGACTTCTTN
Sequence 5569
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTN
NNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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NANTNAGGNGATANNTNNTNNNNNNAANNNGAAAAAANNNNNGAAATTNTTATGNAAAAA
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Sequence 5570
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ANAAAAAAAAAAAAANNCCCCCCCCNTNAAAAAAAAAAAAAGGGGGGGGTTTTTTTTT
Sequence 5571
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TTGACACTTTATCCTGATTTTTTTCTTCTTTTTGGTTATGTCTATTTCTAATTAAATATG
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Sequence 5572
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TGTATTACTAGTAATAGGAACTTGCTTGCTGCTCCCCTGTATATTATATTTGCTCCTTCA
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ACATAAAATACTATCACTCTGTCTCACAAAAAGACTCAAAAAGTAAAAAAAAAAAAAAAA
AAAA
Sequence 5573
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TGGTTTTAAAGCTAGATGTCCTAGCTGCGTCTGGTCCATCTTTTCCATAGGAGATGCAGG
AGAGGAAGCAGCTGAATCACTGTGGTGGCTTGGAAAATGCTTGGTCAGCCGATGCTTGCC
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TACCTGTAGCAAGGTTCCTAGGTAAC
Sequence 5574

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GGTCAGCACCAGCGACAAGAAGATGCCCAACGGAATCTTGGAGGAGCAAGAGCAGCAAAG
GGTGATGCTGCTCAGCAGGTCACCCTCAGGGCCCAAGAAGTATTTTCCCATCCCCGTGGA
GCACCTGGAGGAGGAGATCCGTATCAGATCCGCCGACGACTGCAAGCAGTTTCGGGAGGA
GTTCAACTCATTGCCATCTGGACACATACAAGGAACTTTTGAAC

Sequence 5575
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AAAATCTTCTCCACCCAAGTGGGTGTCTCCAGCTGTAGACTTGACCTCAAAGATTCCATC
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TCACTTTTTAAGGATGGTATTGAGCCTATGTGGGAAGATGAGAAAAACAAACGGG

Sequence 5576
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AGATAAAAAAAAAACTTACCATGGGACAAATTGGCATCATAAGCTGCCTGACATGATGCA
TTGAGAACTACACATTACCTAGGTAGGATTTTTCCAAAAAACGTTAAACTTTGTGTAATC
CAAATCCAAATAGAGGGTCATTCTCAGGTCAAAGTTTGGAGAGGACTATTCCACCTCCTA
GATCACACTTTCCTTCCCGAAAGCCGCTTCTCTCTCCGGCCTCTCCCCTCCTCCTCCCTC
ATCTGTTTGGCGGGAGGCTTCCTCACATTGCCGCTCCGCGTAAGTCCCCGCGTACCTCGG
CCGCGACCACGCTAAGGG

Sequence 5577
CCCTTAGCGTGGTCGCGGCCGAGGTACACTTTAACCAGCTAGGGTTTTTGTCTGGATCTT
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Sequence 5578
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTCTCTTTTTTGTNGATCAATCNGGNATCA
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TTNTTT

Sequence 5579
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GGACACCNTAAATTCCGGGCAAGTTCACCACTACTGGCCATCTGATCTATAAAATGCAGN
TGGCATTCNACAAAAAGAAACCATTG

Sequence 5580
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AANGGGTGATGTCACTGATAGAACGAAGCTGAGTTTCCAAGGGTTTGGGGCTGTGCAAGA
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AATGTAAAAAGGGAAAAGAATGTAAAGCTTTTTGTNCCTCGGCCGCGACCACGCTAAGGG

Sequence 5581

TABLE 1A
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CTTGTTGAAGGTAAAGAAGGTAGTCAATGTGCAGAAAACTTCAGTCCCAATCTCAGTGTG
ACCNAAAAAGACTGCCGGAGTAAAAAC

Sequence 5582
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TTTTACATTTTTCATTTTCAACANAGATTTGAATTTTAATGTCCCANAAATATAAANAAG
ATGGCATTAAAATGTCCTATATGTTGGCAGTCCTACCCTGAANACTTTTTTTGCTTATCT
TTTGTTCTGAACTACAGTCTTCGCAGAAACTAAATTAGTGACTGGNCAACANAAGAAAAT
AGACCATCCTGGGCTAAAAATGGN

Sequence 5583
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ACCTGCGGAGGTGTTACTTTGTGGGAATGTAGACTGTGAAACTGAAGGAACTGTTTTATC
CACCTCCCCGTAGTTTGCTCTGTGCTGAGGCTGCTGTACCTCGGCCGCGACCACGCTAAG
GGCGAATTCC

Sequence 5584
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NCNAAGAAGCAGGAATGAAAGTGGCGCTTTCTTCCGCCCCAGGGTTCCAGGACATAGTCT
GAGGCAAGATGGAGGGTATGAAGGGGCCTTCACACTTCACTTATTCCTTTCTACCCATCA
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CCTTAATCCTATGGAACAAAGAAGCTGCCACTTGAATAAGGGCCCAGTATAGGGGGCTTG
CTTTTTTTACTCNCTCCCCCCAATATAAAAATTTAGAACTTTCAAAAAAAAAAAAAAAAA
AAA

Sequence 5585
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CCTGGAGATCCTGGACGGTACCTCGGCCGCGACCACGCTTAAGGGCGA

Sequence 5586
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Sequence 5587
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TABLE 1A
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TNAACAANGGANGGAAANGGTTTTANTCCCNAANANANNCCCTACCTTNGNGTNNCCCCC
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TTNCCAAANAAGGAAGG
Sequence 5588
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ATAACTGAAAATAAAGATTTTATTTTCATGCTCCACTTTTCTTTAAAA
Sequence 5589
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Sequence 5590
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TTCAGACAGCAATGTATGATTGATCCAGTTTCTTCACATCCTCACCAGCATTTGGTATTA
CTACTATTTTTTATCTTAACCATTCACATAGATGTGTGTAATGATACCACATGTGGTTTT
AATTTGCATTTCCAATGGCTAATGATGTTGAGTATCTTTTTGTGTGCTAATTTGCCATCT
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Sequence 5591
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CAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCG
CCCAGCCATCAAAATGCTTTTTATTTCTGCATATGTTGAATACTTTTTACAATTTAAAAA
AATGATCTGGNTTTGAAGGCAAAAATTNGCAAANTCTTGAAANTTAAGAAAGGCCAAAAA
TGTAAAGGAGTCAAAACTATAAATCATAGTATTTGGGGAAGTGAAGACTGGAAAGCTTAA
TTTGCATTTAATTCACAAAACTTTTATACTCTGTCCTGAATATACATTNTTNTTTNTTTA
AAAA
Sequence 5592
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Sequence 5593
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CGCTAGCTCCCATTTCCTCAGTGCTCTTTAGCAATGAGTTTTTATGTTAAACACTTCCAA
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CTACATTCCACTTTCCCCATTCTTGGAGATTAAAAAAACAGGGTTAGGAACTTTAATATC
TGACAGACTACAAAGGGCAAAGACGTGGCACATGGCCAGTGCCACACCTACCTGGTTGCC
ACAACATTCTGAAACAGACCACACTTTCAGGAAAATGACTA
Sequence 5594
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Sequence 5596
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Sequence 5597
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TTTTTG
Sequence 5605
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Sequence 5606
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GGGAACTGTGGGATGCTCAGTCAGTCGGGCATGGCTTTAGG
Sequence 5607
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TGCTNCCCCCTTTTTTCCCCTTTTTTAAA
Sequence 5608
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TGCATGCCCAAATCTTTGTTGAATCCCTCTAGTGGGTTTTCCATTTCAGGGATTATACTT
TTTAGCTCTAGAATTTGTTTGGTTCCTTTTTATAATTTCTATCTCTTTATTGATATTCTC
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TTNAAAA
Sequence 5612
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TTTTTTTTTTCTTTTTNGGGAAAAAAAAATANTTTAAAAAGNGGGNNAAAATTTTTTTTT
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Sequence 5613
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TTGCCATGATAGTGATGATGATATTATGAGAAAATGATCGTGAAGTATGACTCAGGAGAT
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GCGACCACGCTAAGGG

Sequence 5614
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CACACCTCAGAACACATTGCATTCAGGATTAAGTTTCCAACACGTGAACTCTGGGGAACA
CATTCAA

Sequence 5615
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TGGAGATCTCTTTGGATCAAGTAGAAATGTGTTGGAGCTCAAAGGTAAAGGCTAAAATAT
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Sequence 5616
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TCTAAATCCCAAGTAGAATGGATGANTGATAAATTGATGAAAATGTTTTGAAAACAAAAA
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Sequence 5617
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Sequence 5618
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Sequence 5619
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Sequence 5621
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Sequence 5622
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Sequence 5625

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CT

Sequence 5626
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Sequence 5629
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Sequence 5630
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GTTTTTTAG
Sequence 5631
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CAAAGATCCGGAAGAACCCAGCACTTCCACCGATGCTNCATCATGCCCCTTTGCAAAAAA
AACTGNCTCCTCCAGTAACACTTTTCTGATGCCACTATANATAAGTTTTGCCTTTCGNGA
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GGAATTTAAATTTGGNGTTAAAAAAAAAAAAAAAAAAAAN
Sequence 5632
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GAGTAAGAAAGTTTCCAATGAAAGAGGAAGTTCCACAATGAATACAGGTGCAGACAGTCT
TATTACCACAAATTTAGTTATATCAAAACACTTGGTGGTGTCACTAAGTTAATTAAATTA
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TTCTGGTTTT
Sequence 5633
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AAAAAGTACCTGCCCGGGCGGCCGNTCGAAAGGG
Sequence 5634
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GNGGNCCATTTTTTNNAAAANNTTAAAAAANCCTTTTTTTAAAAAATTNCGNNGGNTTTT
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Sequence 5635
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TABLE 1A

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C
Sequence 5638
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TTTTACTGAGGCAAAATCAATGTGCTAGCAGGGTCTTGCTCCCTCCAGAGGCTCTAAAAG
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ATCACTGGAATCTCTGCCTTTATGGCTGCATTACCTCCTCTTCTGGGTGTCAAATCTACC
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Sequence 5639
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Sequence 5640
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Sequence 5641
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TCTTGAACTAAGAGATTCAACAAGCTTCCAGGTTGATGGATGCATCTAGGTGCTGGGAGG
GTGGCACACCTNAATTTCACATGGACAGAAAACTCCACTNANGACCCTTCCTGGCCTTGC
Sequence 5642
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TTTGGAAAGGTTACCTGCTNNTTAGCTTTCATTATTTTTTGCTACACTCATTTTTATTTG
GTATTTAAAATGTTTTAGGCAACCTAAGAACAAATGTAAAAAGTTAAAAGATGCCAGGGA
AAAAATGAAATTNGCTTGGGTATTTCATTTACCTTCATNGTATATTTCAAGGCACCAAGG
CANTTNAAAACCAAAAAAAACCCCATGGTAATTTTAAAACTTTTTTTTTTAAGGGAATTT
TTTTNGCCTTTTTTTGGTGGGAANTTTTTTTTTTTTTTTT
Sequence 5643
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TABLE 1A
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GTTTTAGGCCATACAGTTTGCTCTTAGTTTTATCAAGAGAATTTTTAAGGCTTGCTGCGA
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Sequence 5644
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GATAACAATAGTTTAATGTCCTCTGAAAAGGTAAAAATTCCATAAATCCTTGCAAACAAT
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CCCAGGTAGCCCTGGGAGTTTTCTTTTTTTCTCATCAATCATTGGTTTTGTTTTTTTTAT
GGTTCAAAGACTTTTTCCANTCCATGAAATTAAAAAATNA

Sequence 5645
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TCCCAAAACCAAAGGTATTTGAAGAGACACATGTAACACCCTTCATCCTCCAGGGTGATA
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Sequence 5646
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CTGGACACAGCTCCTTCCCTAAGTAGTCTATGACCTTGGGATAGTCACATAAGACCTTTG
GATGCCAGTTTCATAAACCAGAGTTTTCAATAACTAATGCCTCACATTTAATGAGGTCCA
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Sequence 5647
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CTCCCTTTATCTGCCAATTTCTGCTTTATGTATTCTGAAACTTTGTTACTGGATGCACAC
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TCTTTTTTAATACATTTACTTACAACATGCCTGCATCTTTATATGTTAAATGCATTTCTT
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GAGAATTTAATCCAATTAAATGTATTCCAAGTATTGATATAATGGGTATTAAGGACTGGT
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ATATTTCTT

Sequence 5648
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TTTTTTTTTTTTTTTTTTTTTTTANNNTTTTCNCTTTATTNNAAAANANNAAAAAAAATNN
AGGNGTTATNTTTNAAANNNGANTNGGAAAATANTAAANNNAAAAAAAANTNNNTTAAAA
ANTTTT

Sequence 5649
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CCATGCAAGAGGGCTGATGTTACAACAGTAGATTATTGTGCAACAGTGTATTTTCACCTA

TABLE 1A
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TTGGGAGCCCTTGAACCTTGGGGTTCATAATCTCACAATGGG
Sequence 5650
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AGTGGTTCAGCAGTTTCTTCATCAAAGGTGTTAGACAAACCCAGTAGGCTAACTGAAAAG
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Sequence 5651
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CCTTGGCCAACCGTTTT
Sequence 5652
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Sequence 5653
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AGGCTNANGCACGAGGAATCACTTGAACCCCATGANGAGGGGGGTTGCATAGAGCTTGAN
ANTAATGCCAGGGCNANAAGNANGGAGANTTTGGTTTAAA
Sequence 5654
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CCAATTGTAGCTGGTGTGGTTGCTGGAATTGTTCTTATTGGCCTTGCATTACTGCTGATA

TABLE 1A
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Sequence 5655
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTATGTGTGCCTATTTTTTTTTTTGGT
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ATCTGCCTGGATTCACTCCANTTGTTGGNANGGAGAAATTAAGTTCCAAGTGTAAGANAC
ATANGCACTGAAAACTAAATAATAGNTCTTGNAACTATTTGNTTTTTTTTTTGGTANNAN
ATAAGTGAAGTTCATTTGGTT
Sequence 5656
CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGGAGTTGCTTTGCAAACAAGCCAGGTAGAT
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Sequence 5657
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CAAATAAAATCAGAACCATTTTAAATGAAAAGATCCTGGTTCCTCTGAACATTATATAAT
GCCGGCAAGGCACGGTAGCTCATGCCTGTAATCTCAGCACTCTGGGAGGCTGAGGTTGGA
AGATCTTTTGAGACCAGCCTAGCAACATAGCAAGGATCTCATTTATGCCAAAAAAAAAAA
AAAAAAAAAAAGTCCTGCCCGGGCGGCCGCTCGAAAGG
Sequence 5658
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AATNTTATTAACAAACAATTTTGGAGCAAATAAGATAAAACGTTAACATATCTNAAATCT
ATGACACAGTTCTCAATGTATCCGAGAAATTCTGG
Sequence 5659
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTCTTTAGGAGAGGGTGGTGGTGGCGGC
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Sequence 5660
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Sequence 5661
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Sequence 5662
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AAAGAAGAGCAACTAAACCTAAAGTGAGCAGAAGGAAAGAACTAATAAAATGTTAAGTGA
AAAATAAAGGAGAGAATACAAAAACAATAGGTAGAATAAACAAATCTAAAAGTTGGTACA
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AGCCTGCTAGTTAGGACGACCCGGCCGCCACCCTCCAGGACCTCCAGCCCTTGCACTGNC
TTTCCTTTTTTTTAAATAATTCTTCATTGAGTTCTAATATGTAAAAAAAAAAAAAAGGAA
A
Sequence 5663
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ATTTGCCAACTGAATATAGGCAATGATAGTGTGTCACTATAGGGAACACAGATTTTTGAG
ATCTTGTCCTCTGGAAGCTGGTAACAATTAAAAACAATCTTAAGGCAGGGTGCAGTGGCT
CATGCCTATAATCCCAGCACTTTGGGAAGCCCAGGTGGGCTGATCACTGGAGGCCAGGAA
TTGGGGACCAGCCTGGCCAACACAACAAAACCCCATCTGTTAAAAAAACAAAACAAAACC
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TTNTTTNNNTTTTGACTCTAAAGGGGGTANAGGGGGTGCTATAGGGTAAATACNGGCCCT
ATTTCAAAAATTTTTAG
Sequence 5664
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CTTTTATTACTGAGTNGTAAGAAGTCTTTATATATTCTGGATTCTAGACCCTTATCANGA
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Sequence 5665
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CATGAGTCAAAAGCGGACTGGTTTTCCTAAGATTACCTCCTAGAAAAAAAACCCCTTACA
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TCAAGATTTGCCTTGCATTACAAGGGGCCAGCTGCTCAATGCTGTGTCGGGACCTTAA

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Sequence 5666

GATATCTGCAGAATTCGCCCTTTGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTT
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TTGCTACACTTTGAACACCAACATGTAATCTTTGGGCTTAGCAGAATAAAAGATAGAATA
ACACAAAGTNTATCTTGCTGGAGCACATTNACTCGGTTTCTCCTTTAGAGAAGCAAATCA
TTAGATAAGACATCATTTCCTGCACTACTGGGACACACTCAATGAGGGTAACTGTTGGTT
GAACAACTTTTGCAATGCCCTTTCATCTTCCATTAAATNAACCATAAAANGTAAAAACAC
AAAATACTGAGGAAAATNTGAGTTTTACAGAAAAAATACAATTGA

Sequence 5667

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TAGCATGAGAAATATTGCCTGATATAGGAAAAAGAGTGCAGGGCTTAAAGTCTANATTCA
AAGAGCTCTGCGGTCTTAANAAAGTCACTTTACCTCTCTGAGCTTCACATTTCTAATCAA
TAAAGTGATGCTGTGAGGCCAGCTGCTCTCCAATTTCCCTTGCAGCTTANAAAGCCTAAG
ATGTCTACTCTAGCTAAAAAATAAACCAACCTTATAAAGAATTTAAAACAGATAAAAATT
GTCTGGTATATCAGCTAGTGTTGGTGAATTTTCCTGTTAATTTG

Sequence 5668

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGTCACTGATTATGCCAATACAACAAAGATAA
CCACATGTTTGAGGATTGCAATGTGCCAGACATTCACTGAAAAAAAAAAAAAAAACACACA
ACTAAACAAAATCCACACAACAAACATCTGAGAATCTGGACACTTCACATCAGTGTTTTG
AAGTGTTTCATTAATATCTTAAGACAAGTGTATCAAAACCTTGGCACCCGCCATCTGGTT
AGAAGAGTGGGCATAACTCTTAATTAAGAATTTAGCAGAAGACATTTCTAGATTTTGAAT
AACTTTCCTCTGC

Sequence 5669

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTNGGCTTGGT
TTTTTGTTTTGANATGGAGTCTCACTCTATTCCCAGGCTGGAGTGCAGTGGCTTGATCTG
GGGTCCCTGCAACCTNTGCCTCCCAGGTTCAAGCAATTNTCCTGCCTTANCCTCCTGCAC
ATGTTGGTTTTAATAACAATAAAAAAACCCACTTGGGCGTAGCCATAATCCAGCGTTACT
AAAGGAACTAATTCTACCCANAGTTAAAGTATCTCGCCTTTTGGCTATTAATGTC

Sequence 5670

CCCTTAGCGTGGTCGCGGCCGAGGTACGCTCATCTAACATGATTTGAGAAATTCATAACC
AGGCACTCAAATATCCTTGTAGCCTACGAAAAGTGAGTAGGGTAATAATTTTTGCTTTGT
AGGGAGAACTACAAATTGATATCTTTTAATCTGGCCATTTTTTAACATTTAGCTCAATAT
TAACAGAGAAATGTAGTCAGTATTTAGTAAAATAAATGTATTTTTAAAATATTTTTAGGA
AGCTGCAGAATGGCGACTGAGTGCTTCTTGATAAGTCTGCAGTGTTAGTTCTATATAGGC
TCCCTTCTGTGCTTCTGTTTTTGCAAAGACCTGTTTAAATTAAAAAGAAAATTTTAAAAC
AATAGGACATATGCTATTTATAAAGTTTTTCAGTTTTAAGACATCATTAGCATTTCTGTA
GTAGCAAAGAGTCCTACTTAAAAAGGGCTTTCAGATTTCACAATTTTTCCCCGATTATAC
AATAAT

Sequence 5671

CCCTTTCGAGCGGCCGCCGGGCAGGTACCCAGCAGGTGCTGGNNNNGGGAAGAGACACAG
AAGCCTAAACCTACTGTTTTCTGCACCCGGNGGCTAAAAACCTGAGCCAGAGAGATCCTA
AAATTGGGTCACAAANAAAGAGGGGGCATTACCTGTGGAGAAATANGTCACTTATTGGAT
CCACTTTTCACCTTCTTCAGGAAAACGGGGAATGTAAGGAAATTAGCTATCTTTTTTGTC
TTTGCCTGTAAGAACAAAAGACTGAAAAATATTTAATCTTTTTGCAAAATCTTCTCTTAA
NTTCTGTGTTATATCCCGTATTGGNTACTTNTGCACTGGTTATTTGTGGGATCATTTCAA
ATTAACCAAATTAATTGAGNTAAATAGGTAAATCAAAAATATNATTAAATNAAANTAAGG
TTTTAAGTCTNTATTTTTGTNTGGCNTGTNATATACCCCCAAAAATTCTTTTAAACCTAA
TGGCNAGAATAAATGACCAACCTTNCATAGTNGAGAGAGTTCCCCTNTCTGCTTCATTAC
CTTTTTTT

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Sequence 5672
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTCCTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTNNNGTNTTTTTTTTTTTTTTT
TTTTTTTTTTNNCCCCCCGGGGCCNNGGNCCCTTTTTTTNGAAAAAAAAANNNNNNTNCC
NGGGGNAAANNNCTTTTTTTAANTTCNAAAANNNAACCCCCNAANNGGGGGGGGGNAANC
CCCCCNNCNTTCCANGGGGGAAGGGGGCC
Sequence 5673
CCCTTAGCGTGGTCGCGGCCGAGGTACAAGTTCACAGTTCCTTATTTGAAATCATTGGGG
CTATATATGTATTTAGGAATATGGTTTCTTGTTTTGGTTTTTTAATTTTAGAAATGTTAG
GCCAGGCACAGTGGCTCACGCCTGTAATCCCAGCACTCTGGGGGGTCGAGGCGGGCAGAT
TGCTTGAGCCCGGGAGTTCGAGACCAACCTGGGCAGCATGGAGAAATGCTGTTTCTACCA
AAAATAGAAAACTTAGCCAGCATGGTGGTGTGTGCCTATAGTCCCAGCTACTTGGGAGGC
TGAGGTGGCAGGATCACCTGAGCCAGGGATGCTGAGGTTGAGTGAGCTGAGATTGCACCA
CACCACTGCACTCTAGCAGCCTGGGTCACATACCAAAACCAGGTCTCAAAAAACAAAACA
AAAAAAAGAAATGTGATGGGCACAAATATTTTATATTTCATTCTACTTCTCAAGGCTATT
TCAAACTCTACAATCAGATCATTAATATTTCTTTAGTGACATGTATTGAACCATGCCTGG
TNAGAAGTTTTAAGACTGTAAAATGGCTTTTCATTCAGGGTTTGGTGGCATTTTGAATTT
TAATGCAAAAAAATTT
Sequence 5674
CCCTTAGCGTGGTCGCGGCCCGAGGTACTCCGTTGAGTTCATGATGCTCTCCGGCCCATT
CTTCANATGCAAGCTGCCAGGGCCGGGTCTGAAGAGGGCCTCTGCGTTGGTGTTGATGGT
TGTGGTGAGCTGCTTGGCGTCATCGGGCACCGTCTTTGCCACCATCACAAACCGGTCCAG
ATCGTCACACTTGTTCTGGGGCTTGTTGATGGCCAAGATATTCAGGGACCAGCTGCACTC
ATTTAAGTCATGGCTGGTTTGACTCANGATCTGGTGGGAGTCTTCGACTCGTTGCAGCTC
CCGCTTCATCTTGTTGTGGAGGATGAATTCCNGGANGCAGGCAGNATTTGCAACAGCTTC
CTTGACAAAATGNAGGTACNCCGGGAGGGAACGAGAGCGGGAAAGAGAGANAGAGAGAGA
ACGANAGCGAGAACCAGAACGGGAGCNAGAGAGAGCGAGAGAGGGAACCGGAGCCAGAAA
ATAGAAAAAGACAAAAAACNGGACCCGAGAAGAAGATGAAGAANATGCATACCAACGAAG
AAAACTTGAAAGAAAACTNNTAGAGAAAAAAAGCTTCTTATCAAAACCNCCTTAAGAATT
GGGAAAATAGAGAACGAAAGAAAAACCC
Sequence 5675
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AAAAATCTGTTACTCACCACAGCAAAGACAAAGTCTAGATACTTAATGGTGCTGCTATTG
AGTCTAAGTAGAGCAGTGTGAGAACGGCAGCTGCCTGTGGAGTGAGTTGTATTGGGGTTG
ATGTTAATAACTGAAGCAACCTTATCCTGAGTGATGTTCAGCTGCAGCCCCATGGTAGCC
AGCAGACAAGTATCATTGCCATTATTAACTGAATAGGTTCCAGCTTCTGGTTTTTCCTTT
GGAGTAGGTGTTGTAGTAGGAGATGGCACAGTGGTGTGTATGGTGGGTGCCACTGTTGAA
GTTTTGTCTTTATCACACAGGAACTCATTTGTGCTCACTGTGCCATTTTGGACAAAAGCT
TGTACTCTTCAATCAACAAGACCTGATGCAAAAAAAACAGAAAAGGGGAAGATGTGAGGG
ATCAGTCAGAGTGGTGGGCTCAAGAGTGGACTTAATGAGGGCTGNCTCAAGGTTCTGTAA
TAAATAAACAGAGTANGCAGCAAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGCCGGCC
G
Sequence 5676
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATCTCCCCATTAATTCAGGTCATCTTTTGTA
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CCCAGGCTGGAGTGTAATGGCACGATCTCAGCTCACTGCAACCTCCACCTCCCAGGTTCA
AGCGATTCTTCTGTCTCAGCCTCCTGAGTAGCTGANATTACAGACGTGTGTCACCAGACC
CAGCTAATTTTTGTATTTTTAGTANAGATGGGGTTTCGCCATGTTAGCCTGGCTGGTCTC
GGACTCCTGACCTNTGGTGATCCGCCCCCCTCGGCCTCCCAGAGTGCTGGGGTTACAGGC
ATGAGCTACCGCACCTAGCTAGACCTTATGTTTTGAACCAAGTANGGGAACGAGCATAAN

TABLE 1A
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CTTTGTGGCCAGGCAGAGGTGGGCCCTGCCCAGGCAAATGACCTCACTTCTCAACTNCCT
TNATCCCATCTTCAGNATGGGAGGAGGATAAAACCCTCCTGGGGTTTTATAAACCGGGGG
TGGGCANCTTGGAAAAAAAAATNAGATGATCCGTGGAGTTTGCCTAACNTCGCATAAGGN
CTATTTAAATGGTAGCTGCTAGCCGAAAATGCCAAAATTTTTT
Sequence 5677
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGGCATTTTGCTCAAAACTGAGCTTATATT
TGGACATTGTATCTTCATCATAATCCTGTGGTAATGCTATTATCGTAAGTAACAGGTAAG
AAACCTGAAGAGGAGGGGATAGCAAATCATGTATTTGGACATATTTCCATTTTTTTTTTT
TGGTTTTGTGATGCTAGAAGAATGACCAGAATGAGTCATAGGAAGAGTATCATTCCTGTA
GTATTTTGCAGGACAGAGGTGTGACCTCCTAGAGTCCTCGGCCGCGACCACGCTAAGG
Sequence 5678
CCCTTAGCGTGGTCGCGGCCGAGGTACATGGATGGGAGCAGCTTTGCCAACCCTTGCAAA
GAGGACTCTGAAGAANACGACAAGCCTTGTTCCGGTCACACCCGGAAGCTGACTGGTTCA
CCGCATTGGCCTAANNNNTTNNGAAAACCTCATTCGCGGNAATAATTTTTCCTTAAAATT
TGGACTTGTACCTTGCCCGGGCGGCCGCTCGAAAGGGnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnNTGGATCCCGAGCTCGGTNCCAAAGCTTGGCGTTAATNATGGTCATAGCTTN
TTTTTTCTNTGTGAAANTTTGTTTATTCCCGGCTTCACA
Sequence 5679
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCTTCTGTCCCCAGAAAGTCACACATCCTTT
AGTGGAGAGGCCAGGTTAGTCTCATAAAAAGGCCTGCTATAGCTGTGTAATAAAAGGTGA
AATTTAAAGGCATAAATCCAAGACAAGAACAAACAATGCCTGCAATCTTCGCAGACTGCC
CTGTGAAGGCTCAGAGTGAGTCAAGAGTCCCCGCGTACTGATTTCCTGACAAATGATCTT
CTCCAGCTTCTGATCGCCATCCTTGAACAGGGCAAAGGTGGCC
Sequence 5680
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GGGAGCAATAGAGAAGAACTCAGAGAAAAAGACAGGCTTTGTTTTCCCAAACATTTTCCT
TATATCCCTGGCTTGCTCTTTCCCCTGTGAGCACCCTGGAGCTCCAGCCCTCCGTCACCT
TCTTTCTCCCATTTTGCCTGTGACTTAGGAATGAACGTGATGGTTAAGCTACCTTCATTA
AGCAGCATGACCGCTTCCTGAGCTCCTGCTGCCGCATTTAGGCCCTGTCAGCTGTGAGGC
CACTGGTGCTGAGTCAGAGGGAAAAGCTCA
Sequence 5681
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CACCGACATCACAGCCCCTATGAAGAAAGTAGCCACAATCTCAAATAACAAANGGGAATG
TTCTAAAACTTTTTCTTCCTTAAAAAATGGAGAAAATTGCACTTGTGCTTGCTGTGTGGG
TATATAAACCAGGATTAGGTCCCAGGGTCGTGAGGTTTCTGGTGAAAAGGGTTAAAATCG
TAGAAGCTAGTNTTTTTTTTTATATTTNTGTAAACAAATTGGCTTTTTTTCATGGGGGGA
GGCGGGGG
Sequence 5682
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TNTTTAANAAAATTTTNAAAAAAANNNCTTTTTTNAAAAAAANTNTTTTTNTNAANNNNN
GNAAATNGNTTTNNNTTTTCCCCCCCCAAAAAAAAAAANTNCNAATTTTTTTANCCCCCN
NNACNTTTTTTTTCCCCNNAAAAAANANNCCGGGGGGGNCTTTTTTTTNNAAANAAANAA
AATNTNTNTTCCAAAANANNANTCTNGNAAANNCNCGCNAAAAAAANAAAAAAAAANAAT
TTTNCCCATAAAAANGNNNGNTTTNGGNGGGGGGGGTNTAATTTTTTTTTTTCTNNCAAA
NAAANCNCNCTTTNNNAAAAAAANAAAATAAAANNCCTTTTTTTCANANCAAAAANTTTT
TTTTTTT

TABLE 1A
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Sequence 5683
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAATACATTTGTAGGATAGAGTGCTAGAAGT
GAAACTGCTGAGTCAAGACGTGCATTTTAGATTATGATAGATTCACCACATTGCTCTTTT
CTGAAGTCGTTAAGAATTTACACTCCCATCAAAAAAGTATGAGTCTTGCTTAGAGTAGGA
TGTCAAGTGCTGACTGATCAATGTGGAAAATGAACTAGAATAAAAAAAATACAAATTTTG
CAACCATCACAGTAAACATTAGTCCAGGCAAGCACCGTCAATGGATATTTGATCTAAGGG
GAGAGACTTCAGTCAGTAGGATATTTTTATGGTCTTAAAGTGTATCCCAAGATTGCTTAA
ATACAAAGGGAAAAAAACAGTAACCATATGGTAATAAGACAAAATCTTCATGGATTGATC
AAAATAATATCGCCATTGAAAGACAGACAGTGTACATGTGGTTAGCAGGAGTTTAGGATG
AGAAGAAATTTAGTGGACCCGAGAAATAGTCTAAATATCAAGTTTTAATTTGTGAAAGAA
AAATAAAAA
Sequence 5684
CCCTTAGCGTGGTCGCGGCCGAGGTACAATATAAAATAATACATATGAAGCCACAATATT
CAATTACAGTTCAAACTANAAATTACTAACTACATGTAGCTGCTTCATTTTTCGTTTTGC
ATTTTGGCCCCTAATTTCATTATTTTACAACTGGATACCTGCTGAGAAAAAGATCCAAAC
TTTTAAACTTTGTATGTTTTGTGGAGGGTGCACAATTTCTTCTAATTTATCTTCAAGTGT
TTNAAAATTTAATTTGTTTTTAATCATAAGATATCATCATGGCCAAGAGACTGGGAAAAT
AAACAATTTTATTCTTT
Sequence 5685
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGTATTAATATTACCGTTGGTTCAAAAGTAA
TTGTGGGTTTTGCCATTACTTTTAATTGGCATTTAATGGCATTTGCCATTACTTTTAATA
GGTGTTTAATATTGGCAATATCTTAATTGGCATTAATATTACATTGGTGCAAAAGTAATT
GTGGGTTTTGCCATTACTTTTAATGCCATTGCGGGTCTTGCCATTACTTTTAATTGGCAT
TTAATGGCATTTGCTAGTACGCGGGGAGAAAAGCTNTATAAGTTCAAGGGCTGTAAAATA
TGAACTACTTANGGTCGTTTGCCTNTCATGGGAACTTGGCTAGACT
Sequence 5686
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTTNAAC
TGGGTTATTTTATTTATTTTTGANACAGTGTCTCTCTTGTTGCATAGGCTGGAGTGTANT
GGCATAATCACAGCTNACTGCAGCCCCGACCTCCCAGGCTCAAGCGATCCTCCCACCTNA
NTCTCTTGAGTANCTGGGACTTCAGGTGTGCACCAACATGCCTGGCTAATTTTTGTATTT
TTTGTTTTTGNANANATGGGGTTTCACCATGCTACCCAGGCTGGTCTCAAACTCCTGGGC
TCAAAGCAATNTACCTGNCTCGGCCTCCCAAAGNGCTAGGATTATAGGCTTGAGCCACCG
TGCCCGGCCCAAAATGGAAATTTTTAGGAAGTTAGGTTTTGCTTGTGAAAGTGATCATAC
GCTGTCCTACCACTATCATTTTACTGTGGGTGCAGGAAAAGNANAAATAAGGATTTNCTC
CTTAATANATAACCCTTGGNGTTATTTGACTTTAAAATGAAANNTTANNCTTAAAAAACC
TTTAAAAATCACAGGCTTGCTAAAATATTAATTAACCAAATGCCNCTCCNNGCTCTNTTT
AAAATANATTTTTCAAAAATGTAA
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AAGGTTGAAAATACTATAGGTGTAATGCCCAAGTTTACATAAAATACCAGTGAAGTTCCT
ATTGATAGTGAATCTTGGGTCTGTCTTCTAATTCAAGGAAGGCAACCAATTAAAACTTCA
TTTACTTTGCCAAAAAGGTAACACAGAATCACTTCAAAAACATAAGATTCTTGGCACAGG
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TGGG
Sequence 5688
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CTGTAAATATTATTGAGATTGTCAATATTTCTGGGAAAAAAATGTATTGGGATAATGCTG
CATATCATATTCTGTCAGAAAAGATCTATACTTAAAGGCAAAGATTGGGGGATGTTAGTT
TTCCTAAGTAGGGAGGGTAGAATTGGGAAGGGGTAGTAAAATGATAGGTTGCTCTTTACA

TABLE 1A
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TAAATAAAAAGGTTTTTTATTTAAAAAAAAAAAAAAGTCTTTTCTCTCTGATTTAGGCTT
GACCAAAGCTAACGCCAGACTTCTATGCTAAAAGCAATATGAGGTATATGTTAATTAGTT
TGAGCATCATAACATCAATAAACAATTAATATTCTGTAACCCAATTAAGCCTCTGCTTCC
TCTAAGTTAAAGAGAGGTCACAGAGGGAAAAAAATAATTTTATTAAAATCTAATATACTA
ATCNGAAGGGATGGGGAAAACAAAAGTCCCTGCCCGGGCGGCCCGCTCGAAAGGGCG
Sequence 5689
CAGAATTCGCCCTNNCGAGCGGCCGCCCGGGCAGGTACTGANATCAAGGAGGAGGTTAAG
ACTTTTTATTTATACCACTTTGTAAATTATTATTTCTGAGTATGGGCTNAAACTAAACTC
CAGCTGGAGTCTATCTCTATAGTTCCAAGCCTCCCGGAATGAAACTTTTTAAATATTATC
TTGGCTGGGGTGCTGTGAGGAGTAACTAAGACAGTGCCTCTGGGTGACACACAGGCTTTA
ACTGCAACCTCAAAAATTCCATTACTCCCATGGCGATGAGCCGGAGGGGAGAATTACCAA
CTGCTATTTATGGCTTCTTTTAAATAGTTTATTTCAATCACAAAAGTTACAGTTTTATAA
AAGGCAGGGGANGAAGGAGAAAANAATGAATTAAAGAAAAGATCACACACTCTAAAAAAG
CCTGAGCTAACTCTGAGAAAGGGTTANGTAAGATTTCAGACTCTTCACATTTTATGAAAC
CTATTAATAGAGATNGGTGCTGGCCCTGCCCGGGTTCAANTGACTGATTTTTATTTTTTA
AATTTTTTAAAA
Sequence 5690
CGCCCAGTGTGATGGGATATCTGCAGAATTCCCCTTAGCCGTGGGTCGCGGCCCGAGGTA
CTATTGACCCAGCGATGGGGGCTTCGACATGGGCTTTAGGGAGTCATAAGTGGAGTCCGT
AAAGAGGTATCTTTCTATAAAAGCTATTGTGTAAGCTAGTCATATTAAGTTGTTGGCTCA
GGAGTTTTGATAGTTCTTGGGCAGTGAGAAGTGAGTAGTAGAATGTTTAGTGAGCCTAGG
GTGTTGTGAAGTGTAAATCAGTGCGATGAAGTAGGGGAAGGGAGCCTACTAGGGGTGTAG
AATAGGAAAGTATGTGCCTGCGTTCANGCGTTCTGGCTGGTGCCCTCATCGGGTGATGAT
AGCCAAGGTGGGGATAAATGTGGTTTCNAAGAAAGATATAAAATATGATTAAGTTCTGTG
GTTGTGAATGTTATAATTAAAGGAGATTTGTAGGGGAGATTAGTATAGAGAGGTAGAAGT
TTTTTTCGTGATAAGTGGTTCACTGGATAAATNGGCGTTGGCTTGCCCATGATTGTGAAG
GGGTAGGA
Sequence 5691
CCCTTAGCGTGGTCGCGGCCGAGGNACAACTGTCTAGAATCTAGCCGTCAGGACCCCATC
GTGGACTGGCTTTCCNACTGGCATTGGCGTTGGCCATGGTGGGTTGTGGTTCTTGTTACT
TGTGCTTCTGATTCTCCTNAGCTTANCCTGATTCTGAAACCTCTACCAATTATGTATNTC
CCATTTATCTGCAAAGGGTATNTTNCTAAAACTGGGTNTGAAATTGNATGCCANATATNG
ANGAAAAGTTAA
Sequence 5692
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC
AAATGGACTAAGACAAGGGGGAAGAAATTTGCATTCCTGATCTTCCCAACTTCTTCAAAT
TCACAACACTTGAATGACAGTCTTATTTCAGCACTTACTGCTATCACCTATTACTTTTAT
GTGTGTCTTACCTATTTGAGATGCCAGATTCCTTGGAAGTAGAGACCGTGTCTGAATCAT
CATTGTATTAAGCCACTCATCCTTAACAAATGCCCAAGCCATGGTTAAAGTTCAATAAAT
ACTTTGTTGAATTTATTAATAAAATGGCAGAAATGTCATTCTCTTCCATATATGTTTAAT
AAATCCCTGATAGGTGCTAAAGCACTGCACTAGGTAAAAATTCTCTTCTGATGCTGCTTT
TTGGCCAACCATTTTTTTATCATTTATTCATTAGCTGACATTTGCTAAGTGCTTTGGAGG
GGTCAAAA
Sequence 5693
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGAGTTTG
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ATTTTTTTGAGGCCTTTTTCTAGATCTTGTTGGTTTACTTCATTCTTTTTCATCCTTTTT
TCTTTTGCTTTCTCTTACTGTGCATTTTCAGTA
Sequence 5694

TABLE 1A
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CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGGTNGGGTTTT
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TTTAAGGGNGTTTNGNAAAAANCCCNNNTTTTTNAAAANACCCNNTTTNNTTTTNCAAAA
AANAGAACNTTTTTTNGGAAAAAANAAAAAAACCCCCCTNCNNCNNNAATAANNCNAATTG
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ACTTNNGGTCCATTTNTTATNGNGGGNANTTTCANNTTTTNTTCGGGGGGGGGGNNNNNAN
ACCCCGGGNNANNGNNAAANATGGAAACCCNNNTTTTTTTTTTNNCCCCGGTTCCNTTCC
CCGGGGGGGCN

Sequence 5695

TTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGATTCTCCCTGAATCTTACCAA
CAAAACACTCCTGAGGAGAAAGAAAGAGAGGGAGGGAGAGAAAANGAGAGAGAGAAGC
AAAAAACCAAAGAGAGAGAAAAAATGAATTCATCTAAATCATCTGAAACACAATGCACAG
AGAGAGGATGCTTCTCTTCCCAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCCTAT
TTCTCAGTGCCTGTTTCATCACCAGATGTGTNGTGACATTTCGCATCTTTCAAACCTGTG
ATGAGAAAAAGTTTCAGCTCCTGAGAATTTCACAGAGCTNTTCTGCTACNATTATGGATC
AGGTTCAAGTCAAGAATTGTTGTCCATTGAACTGGGGAATATTTTCAATCCAACTGCTCT
TCTTTTCTACTGACACCATTTCCTGGGCGTTAAGTTTNAAAGAACTGNTCAGCCATGGGG
CTNACTNGTGGTTATCAACTTACAGGAGGAACCNGGAANTTCTTTTCTTCCAANAAACCT
TAAAATTGAGANAAGTTTTTTATTGGACTGGCAAAACCAGGTTTTTNAGGGGTAATGGGC
NAATTGGNNGGACNGGACACCNTTTGACAAAGGTCTTTTGANCTTTTTGGGAATTTGGGG
GAGNCCCAACAACATTNNTTTCCCTGGGNGGGCTTGGNCCCCCATGAGAANAATTTTTCA
AACCCCAAGGG

Sequence 5696

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTNNNTTTTNTNTTTTTNNNTNTNTNGCTT
AAAAAAAGTGTNNAAATGTGTTTTTCCCTGAAGATTTCCAGTGATTCCACAGTGTTTAAA
AAATANTTTCCCCAAAAATATATCTTGAAAGCATTTGACACAGTGGTNTTTGTGGCGTAT
CTGGCGCTTGTCAGNGTGGGGCCCAGGCCTGATGAGCCACCANCCCAGCACCCGAATGCC
TGCTGAAGGTGGCGCACACGTGTGCCTGGGATGTCCGGCTCTTCACAGGGGATCAGACCC
GCGTACCAAGTGAATTTAAATAATTGGTGTGGATTGGTCAGTAACTAANTGGGCTTTTAA
AGAGTNTTGAAAATTGAAAGGGTTTTTCTTTCTTTTTTAAAAAAGAAAAACAAACTATTG
ATTGTAAATAATGAAAAGCTAGGGTTTGCCCTCTTCATGTCTACTCTCCTTCCAAATAGT
TTTATCCAAAACTGTTTTTCCCTNTCCCCTACCTTGCCCCCC

Sequence 5697

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGAGCTCCACAAACGTGGCCATGGTTGGTG
CGGAAATGATTCTGAGTGAGCAGGTAGAAGTCTCACGTCCTGCTGTGTCAGAGTTGGTTC
CTTCCAGAGGGTTCGTGGTCTCGCTGGCTTCAAGAATGAAGCCGTGGACCTTCACAGTGT
GTGTTACAGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCCTTCAGATGTGTCTGGAGTT
TCTCCCTTCTGGTGGGTTTGTGGTGTCNCTGACTTCAAGAATGAAGCCCCAGACTGTCGT
GGTGATCCGTTGTAACTCTTAAAGGTGGTGTGGACCCAAAGAAGTGAGCAGCAGCAAGAT
TTTTCGTCAAGAGGGTAAAGAACAAAGTT

Sequence 5698

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTANTGAAGAAACAGTTTATGTGCAAGGTGTA
TAAAAAAATATACCTTTGATAAAAAGATTATNAGGAGGCNTANGAATGTAGAATTTTTTA
CCTACATTAAATAGGNTTTAAAAAAAATTATTTGG

Sequence 5699

CCCTTANCAGCGGCCGGNCNGNCNNGCTCANAGCNNATNANGCTGAACCNNNNNANTNTG
ATGATGNTNACNNNTNANGNAGACNNNACTNAACACATTACCCCAATTGCNTTTGAGTCN
GGAAAGACCTAGNNTATNCACAAATTGACTGTTTAACTTATTGNNNNNAGANCCAAAATG
TGATNCTAAACAGCTTCTNGNTGATNCNTACTGGCAACCTGGAATGGAGACTTTTATCTA

TABLE 1A
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CTTCTCTCTCTCTGAAGATGTCAAAATCGTGGTTTAAGATCAAATATATTTCAAGCTATA
AAAGCAGGAGGTTATCTGTGCAGGGGGCTGGCATCATGTATTTAGGGGCAAGTAATAATG
GAATGCTACTAAGATACTCCATATTCTTCCCCGAATCACACAGACAGGTTTCTGACAGGC
GCAACTCCTTCATTTTCCTCCCGCAGGTGAGAACCCTGTGGAGATGAGTCAATGCCATTG
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TTCACAAGTCTTNATTTTGACAGCATGAAATGGTCTCTTGGAAACATANCTTTTTTAAAT
AATCTTTTTTCNTTNTACTCCTNCCTNTGACTNTTAAAAATNTNTTTTTTGGAATCNNTT
TGACCCAAGAAGGCGGAGGTTGCAATTNAGCCAAAGGTATGCCACTTGACTTNTAANCTG
GGGGGCAANAACGANGACTTCATTACCAAAAAAAAAAAAAAAAAAA
Sequence 5700
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTAAATTTCATGTAGAAATGTCTTAGTTGAA
AAGCCATTTTAAGTCCTATATAAGCTAACAGTGATTTTACTCTTAGTTCTTCACTCATAA
GGATTTTCCCTGCTTCATGAAATAAACAGTGTTGCCACCATGGTTTGAGGTCTCAATGTG
GCAAATTTAGCTTTCATGTTGACCACTCTGCTACTAATAGAAATACCAAATAAAGAGAAG
CAGCCATACCAGTTAGACATATTCAAAATAAATCCAAAGATGCTATTTATTATAAGTTTC
ATAGAAATGATTATCAAAAACACTTGCATGCCAATGTTTTCTTGTGCCATTTCTTTCTAC
AATAAATCTATTTGGCTTCTGTTTCACCTTAGCTGTCATAGACCTGTTGGTCANGGATCA
TATTGGCAGTACCATACAGAAGTNAAATNCCANGAACTATGAACACTAGACCTTATGNGG
GTTATTCCTTCAATCATTTCAAA
Sequence 5701
TAAGGATAAACAAGAAAAGGAAAAAAGCAGANAAATGCATTATTGTCAAAAAGCAGTCCT
ACATTCAAGGAGTCATGAGATAAAATGAAGTGCCTGGGGGAAACTTTGAGAAGCTTAGTT
TGAATGAACANAGGANAATTGGGACTTCTTAAAGAGCGATAACACTGGAAATGTGTGGAA
GAGTCCAAACCA
Sequence 5702
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGTATGTTGTCCTTGAAAGGGCATAG
GTCTGTGGGAGGCATCCGGNCCTCTCTGTATAATGCTGCACAATTGAAGACGTTCAGAAG
CTGGCCGCCTTCATGAAAAAATTTTTGGAGATGCATCAGCTATGAACACATCCTAACCAG
GATATACTCTGTTCTTGAACAACATACAAAGTTTAAAAGTAACTTGGGGATGGCTACAAA
AAGTTAACACAAGTATTTTTCTCAAATGAACATGTTTATTGCAGATTCTTCTTTTTTTGA
AAGAACAACAGCANAACATCCACAACTCTGTAAAGCTGGTGGGACCTAATGTCACCTTAA
TTCTGACTTGAACTGGAAGCATTTTAAAGAAATCTTGGTGGCTTTTCTAACAAATTCCCG
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Sequence 5703
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TCGGGTTTCAGACACACAGAAGCATAATTCTGGCCATACAAAAACCTCAATGTTTCTTCT
GTCTTCCACTCAATCAAAGTCTCCTTCAAAACTTTAAGTAAGTTTCTCTTTCCAACTTCA
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TATTCACTTTCAGAATTTTCTGACGCTTTTAATCTTTCAGGCAAAGTGCTATTTGAAGAA
CTCTGAGTATTTACTTTCTGTAAAGGAAGTTCACATGTAGCATCTTTCTCCTGACTATCT
AATTTGCAATCGCCTAACTGCTCAATGACATCTACTACTGGCTGGTCTTTGGCTTTGGG
Sequence 5704
CCCTTAGCGTGGTCGCGGCCGAGGTACAGGCGCTAATTGTTGTGATAATTTGTAATTGTG
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CCCCTGAAGCCTGCAAACGTTGTCATCGAAGGGAAGGGTGGGGGGCAGCTGCGGTGGGGA
GCTATAAAAATGACAACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGGTCCTTACTGTCG
TTGGATCCCATGCTAATGAGGTCATCAGAATCAACATTGTGAACTATGGCTGCCTTGTAT

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CCTGCTCTCTGGGCATTTAAAACCTTTATATCAAAATTACAATCAAGTCTTCTAATTAAC
ACGATGAAAGTGCCAGATGAATTGTNTTTTACTGGTGGAGGCACTATGGGTTCACAGGCA
TTCTCTGGTTTTGAGTTAATCAAAAAA

Sequence 5705
CCCTTAGCGTNGTCGCGGCCGAGGTACCTTGACTTTGTTCACAGCATGTAGGGTGATGAG
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ATAATAGTCATGATTCTATGTAATGGTAAACCAGAAAAAATAAATGTTCATTGATTTCAA
GATGTTATATTAAAGAAAAACTTTAAAAATTATTATATTATTTATAGCAAAGTTTATCTT
AAATTATGAATTTCCTGTTGTAATTTAAATGACT

Sequence 5706
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCTGACNCCAAAACCAGAAAAAGACACAACA
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CATCAGTTTAATATGATCATTTATAAAATGTCGTTTCAAGCCTCATGGTAAACCTTCAAA
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ATAAGGAGAAAAATACCTTTA

Sequence 5707
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ATTGTGGGCATTGCNTTGTGGGGTTATTTCATTTCATCTTCACAATCACCCTCCAAAAGT
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TACGGTGCCAAGCTCTGCCATTGATCTCTCCAGAGAAGAGGGAAGTNAAACCAAAAGAAN
NTGAAAGACGTGTCTGACTGGGAAAGGGAACATCTNGTGACACCTTTCTTTTTCCCNAAT
GGTTCTTA

Sequence 5708
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TTGTATAGGACGTGTGTTGTCATTATTTGTAGTAGTAACTACATATCCAATACAGCTGTA
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ACCTCGGCCGCGACCACGCTAAGGG

Sequence 5709
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GGCTTTGTCACCATGGATTTGCCTATTTTTGGATATTTCATATAAATGGAATCATGTGGC
TGGGCTTCTTTCCACTTAGCATGCTTTCTTAA

Sequence 5710
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AACANANNNAAACTNTTTCACCCANGCTGGAGNGCAGGGGCACGGTCTCGGCTCACTACA
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CAGGNGTGCNCCACCAANCCNGGCTAATTTTTATGTTTTTAGTAAANACGGGGTTTCACC
ATGTTGATCAGGCTGGTCTNAAACTCCTGACCTTGTGATATTTTCTTAANACTTCCTTTT
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GGGGCTTGGATTGGGACCTCTTTCNGGTANAACTCTGCACATTTTCTTATTTTTCCAATT
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Sequence 5711
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CAGGTTCTTGCTGTGTTGCCCAGGCTGGAGTGCAGNGGTGTGATCATGGCTCACTGTANC
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TTTTGGAATGATAAAGACNTTTTAAATGGGCCCTAGTGATGA
Sequence 5712
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ATTTCACCTTTTTTATCTGTAGCGCTCTGCTTAAGAACAAAGGAAAAAACAGCTTCTTGCA
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Sequence 5713
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CTCATGCCTGTAATCC
Sequence 5714
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Sequence 5715
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CAATTGAAGTGGAGTAGAAAGTNTCCCGAAAAAAAA
Sequence 5716
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TABLE 1A

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TTCCAGCTACTTGAGAGGTTGAGATAGGAGGATCGCTTCANCATGGGAGGTCAAAGCCAC
AGTGAGTCGTGTAAAATAAAAACATTCAGATGCTCTTAAGTGACTTTCAGTGTCCTCAGT
NNAAATCCCAAATNGATGGCTTGGCTTATAGTCANGATTTGACCTTAAGTAACTTTTTAA
NCCGNATTTTCCCANA

Sequence 5717

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TTTGTCAACAATTGTCTAAAATGTTAATTGTTAGCTTAAGAAAGTCAAACAAGTTAAATC
ATTGCCAGAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 5718

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTCCACCTGTTCTTTGAGCTGGTC
CAGTGTTGCTGGAGAGCTCTGCTTGCTGCCTTGGTCTGCAGTGGCAGCTGTGCTTTCCTA
CAAGCCCAACTTCATATATTCTGTGGTTTTGGGTTTTGAATGTTTCCTAGTTTAATCAAG
GATGGGCATTTCTGTTTCCATTTTGTGTTATTTTTAGTTATCCATGGAAAGATAGAAACA
GAACTATCTTTAGTATTAAAATTACAAGTTTCCAGGAATCAGTTCTGAAATTATTTTGCA
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GTAATCCCAGCACTTCGGAGGC

Sequence 5719

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Sequence 5720

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Sequence 5721

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ACTTTGGGCCCTTNTTNGTGGAACCTTCAAANNAATTTTCCCTTNCTTCCTTTTAAAAA

Sequence 5722

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACCCGGAGCCCGAGGCTTGCGGCGACCACGA
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TABLE 1A
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TTTTTTTTTTTGTAGAGCTAGGGTTTCACCATGTTGCCCAGGCTTGNGATTTTGATGTCT
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TTCAATCCTTTCTGGTTAATNAAAGGAGGNAAAGTCNTGGATACNGNTACCTTNAAATGA
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TTTTTTTANCCNCCCCCCCTTTCCC

Sequence 5723

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CAANTACNTACTCGGCGGGATCTCCCGGCANGATGGGTAAANAGATAAAGAAGGAAGTAT
ANNCTCCTNCTAAGGATGTGTTNNNCNCNNTAATGATTGANAGCNAAAAAGCACCNTCTG
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ATAANTTTNCTTTAAAAGGTG

Sequence 5724

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AAGTTACAAAGTCATCTACTCTGTGTATAGCCCTATGTCAATGGAGAGGGTATTACCTGT
CATCACTTGAAGTGTTTCCATTT

Sequence 5725

CCCTTAGCGTGGTCGCGGCCCGAGGTACTCTAGGAATTTAAAAAGACACAAAATTATTTT
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AAGAAAGGGTAACTCGAGTTGAAGGTTTGTGAATAGAAGGGGAAATGTGATAGAAGATTA
TTCAGAACAAAATAAGTAGACAAAATAACAAAAGACAGGAAAATAAGTCTCTTTGTATCC
TTATTAATCATTTGAAATTATGCTATAATATTTTTTAAAACTCACCTGTTTGGTTCTGGG
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GTGGCCAAGTAAGTTTGGGAAATAGTGGGTTAGACAAAGTTGAGTTACTGTTGGCCTTTC
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Sequence 5726

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TTTTTT

Sequence 5727

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GGCTCGCTCCAGAGGCCGCCTGACTCATAAGCTCTGAAAGAGGTGTCTACTTGAGGTGGG
GAGGGAGTACCTTCCCGGGCGGTCGATCGAAAGGGCG

Sequence 5728

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TTTTTAAAAAAAAAANT
Sequence 5729
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AAAAAAAAA
Sequence 5730
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ACNATAATTTTTT
Sequence 5731
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Sequence 5732
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Sequence 5733
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GGGGCAGGTCTGCGGGTCCGTGGATTCACTGGACTGGATGGGACATGATCCAGAACTCCG

TABLE 1A
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CTCCGTTTGGCTTCCAAGGATCCCACCAACTCATTCTAATCAAGTGATCACTGAGGAAAT
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TACTGGAAAATGCAATGGAGGTTTCATATACACCCACTTACAGGTAAGTAAATACCTCAA
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Sequence 5734
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CTTTGAGCAATCTGAAGGCC

Sequence 5735
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ANGCTCTGATGGAACTTTGTTCCATAACAAGAATCTCAAATAAAACTTTGTAAAACCCGT
AAAACCCAACCNANCCATGGATTTATGCCATTAAATACCCATGANTTGGGTGAAATTTCC
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TTTACTTACACAATCCATAAACCCTTTTCAAGGACTGTATATACCANAATATTAAGCCAA
NTTTTCCAAAGACTTTATTTGCTCCNTAAATCAAATTTTAATTTCCTTATAAAGAAAACC
CCATTATTCCAATCAAAAC

Sequence 5736
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAAGAAATCAAAAGAGAAATTGGAAAGTT
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TTTAAT

Sequence 5737
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AGTGANTTTCANAGNTTTNTGAGCCCNTACTTGGCCCAAGGAAGNCCCAANTNGNACCTT
CTTTAANTNCNTGCCTTTTAAAAAGGACACCCNCAAACTGNTGTTGGGAACCCGTNNGGG
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Sequence 5738
CCCTTAGCGTGGTCGCGGCCGAGGTACTATCAGAACAAATACATAAAATAACTTCCCATA
GAGAACAGGATNTANCAATAATAGCTCCTTAGATACTCAGNGGCATTCTGACTCCAATCA
AGGGTCNTNGTTTNAAATTAATANTAGGTTAAAAAATTAAAAACCCAANNNAATTTAAAA
ATTATTTAATTTCCAAAGTTGGGNNTNCNTTTNTTAAAAGCCAATTGGTTGGAAATTGCA

TABLE 1A

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TTGAATAGCCCACCTTGNAAANAATAATTGGTTANTTTGTCTTAAAATTNGNACTGGNAA
TCCTTNTTATTNTTAAATTTTCCCCCNAATTTTTTTTTTGGCCTCCCTTTTAANGTTTTA
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GCNTTAATTTATCCTTNNGAGGGGNGNAAATNTTGNCCCAATTNANGNAAA

Sequence 5739

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CCTTTTAATGCTTATTTTTNAACAAAGTCCGATTTTTTCTACCAAATCCAGNTGGTTTCA
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GNAAAAACCTTNGGTTTAACCCATTTTTCGGGTTTTTTTCAATTTCCTTNGGGAGCCTTA
AGGGCGGGCCAATTAAAAAANTTTTTTNACCTNNAAATTTTTCCTTTTGTTNCCNTTGAA
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TTGNTTTTTTTTTTNAAAAAAAA

Sequence 5740

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GTTTATGTTAAGAATGATTCATTCTTTGGATGAGCTTGGTGGCTCATGCCTGTAATCCCA
GCGCTTGGGAGGCCGAGGTGGGTGGATCATCTGAGGCTGGTCTGGGGATCCTGACCTCAA
GTGATCTGTCTACCTTGGCCTTCTAAAATGCTGAAAATACAGGCCTTGAATCACTGTGCC
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TAATGTCATCTTTTTAGGAATAAAAATACTGNTTTTCCCATGCCCCACTGGCTTGTAGGA
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TGAGATNACCTGGGAGNNNNAATTNATTNNAATNATTTCAATTTAATTAATTTGGGANAC
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AACAAGACTCCNCCTTAAAAAAAAAAAAAAAAAAAAAGGTCCTTNCCCGGCGGGCCNTTT
AAAAGGGNAAATNCNCNAACCNGGNGGCNNTCTNNGNGGNCCCANCNNGGNCCCAACTNG
GG

Sequence 5741

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ACTCAGGCCCAGAAGAACCCGGATTGGGCTGCGCTCATGCAATGGGTGCATCTCCAGTGA
GGACATCTAGGCATCCAGGGAACCATGGCTTGGGGACAGCAAAGAGGGATATCATTTACC
GANGGATGTGGTTCACACAACTTTATCCCAACGCACTACACGCCAACAGTTAAAAACTAA
NCCAGTTCNTTAAAANNGGTTTTGGGGGCACATTTCATAGGGGGGAAA

Sequence 5742

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTAAGTAAGTGTGATGAAGGAATCATCTAGCA
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GTTTTCAACCAATGGCAACCTTAAACACTTCCAAGTATAGATACACAGGGTATATATGGG
CAAAAGGCAATACATCATTAATCAATCAACTAATAAAAATTAATTATAAGCTTGTTGCTT
GGTCAAATATGCTTTTGTTCTCTATGTTTTTTTAATTGGTCAGAAAACTTAAACTGTANT
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TABLE 1A
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GTTTTGACATTAGTTAGAAAATTCTAAATTATTCTAAGCAATGTAAACCAAGCCCCCAAA
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Sequence 5743
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CTGCAGTAACCACAGATCTCATAGGAAATGTTCAACAATTCTGTGAAAGGTCACAGGACC
CAATTNGAGAAATCATATGAAAAGCATAGTTGGTCTTGGTGTCATATGGATCAGAGGCAC
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CTTTTTTTTATTAAAAA
Sequence 5744
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NCTTTTCTGCATCGAAGNANCACTAT
Sequence 5745
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AGAAAGCCCTTTCTCCTCTGGCCAGGCTGTCTCCAAAATCTCTGGGCTGTCGACTCAACT
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Sequence 5746
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Sequence 5747
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NACNATTTNNATCAGCCAATTAAA
Sequence 5748

TABLE 1A
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GTGCCTACTCTAAATATGCATTCAGGAACT

Sequence 5749

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TGCCAAATAACTATTGCCTGGGGGCCACTACACCATTGGGAAGGAGTTCATCGACCTGCT
ACTGGACCGGATTCGGAAGCTTGCTGACCAGTGCACAGGACTTCAGGGCTTCCTGGNGTA
CCACAGCCTTTGGNCGGG

Sequence 5750

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NCCAANTNTTTNNAGGGNAANTTTGGCNATTTNCCAAAAAANTTAACCNCCNCCTCCCTT
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AAAANT

Sequence 5751

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Sequence 5752

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TABLE 1A
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GGAAAAAAGAAAACCACTAAAAAGGATTCATGGTGATTAGTTTTAATTTGGCAAAATGGG
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Sequence 5753
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Sequence 5754
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AGGCACAGTGAGGATACAACAATAAACAAAACAAAGTCCCAATTATCATGAAGCTTANCT
TTTAGTAGGGCACAAAATCAGCACGTAACGTGTAATAAAATGCCAGGCAATNTTAAATCC
TGTGAAGAAAAGTAAAACANAATA
Sequence 5755
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AAATTTGCNCGAGATCCTTTTANTTTNTNNAGACCANANCGATAANNCTTTTTTAAAACC
AATAATGAAAAAGAAGTATTTTGAAAACAAA
Sequence 5756
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Sequence 5757
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Sequence 5758
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TABLE 1A
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NAAATCCTTTTAAAAATTTAACCCAAATNAATNTANTTTTTCCTNTTAANNTAAAAAATT
TAAAAAAAAAA
Sequence 5759
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NAAAAGGGCNCANAAAATTGGAANGCCCCGCCAAAAAAANTTTCANCGNAANTTTGGNCC
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Sequence 5760
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Sequence 5761
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Sequence 5762
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TABLE 1A
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Sequence 5763
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Sequence 5764
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Sequence 5765
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Sequence 5766
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Sequence 5767
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TTTTTAGCGGNTAAGAAGATTGTCTACCAAATTATAGAACAGAAAAGATATATCCCACAG
CCACTGAAAAAAANAACATATAAAANAATGGTTCCTNGGCCGCGACCACGCTAAGGG
Sequence 5768
CGCCAGTGTGGATGGATATCTGCAGAANTTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTA
CAGATGTGATATTGGAAGAAAAAAGATCAAGCTTGATGAGGTTAGAGATACCCAGGCCCT
TTGGACTTAAAGATCACTANTGTCTAAAATTCCATCGATGGCATTTTCAANTACTTATAA
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TABLE 1A
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TCTTGGAATNTAATTTGGGGGCCTTTTTACNGTTNANTTAAGGGTTCCCTTTTAANGGGG
AAAGNCCANGCTTTTAACCCCTTGGAAAA
Sequence 5769
CCCTTAGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCT
GTTTTTCTAAAAGATTTCTCACATTGGCAAACTGAGAGATTTTTTCTGGAACACAGGAAA
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CGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATTCAG
CAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGACC
GCTGTTTTGGATTTCATTGAAGATTACTTGAAAAGAGTATGTAAACTTTACTCAGAACAG
AGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAGAA
CCAAATACAAAGACAAGAGAATCCACATCTTCTGAGAAAGTTTCACAGAGTCCTTCAAAA
GACTCTGAAGAAAACCCTGCCCTGAAGAACCGTNCAGAAAAAATTTTGGCTGAAACACAA
CCTGAATTGGGGAACGTGG
Sequence 5770
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGACAGCGGCTTNCTTGATCCTTGCCA
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TTTATGCTTGGCTGNGCNCTCNTCTTCNCCCAAGTCACCTTGTCTTAACTGCCATNGGCC
TTCTTTGGNNCNTNGCTCCCTCTTTTAA
Sequence 5771
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGGATATCACTGCTGGTTATTCAGGTCCCA
AAGACACTTCAATTAGCATGTAATGAAGGCCTTCAAGGCAGGGGGTTACCTTCTGGCCTA
GAATGTGTCTAGAAATGTTGTCTAAGAGCTAGATCCTGGAATGGGGACCTCGTGACTATG
ACTGGTGCCCTATTCTACTGTGGCTGATCTGGTATCTAGGAAGCAAGACAAAGCCTTCCC
CTCTCTTCCTTCTCCTCTTCTCAAGTAAAAGGAAAGGGTGTCTTTTGGAGTCATGAGCTG
TGAAGCCTGTAGTTAAGGGAGGGGTGA
Sequence 5772
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TGANACTTAAAAAAAATCTTATANCTNTAACAAGTTACTTTAAACTGATGACAAACTAAG
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ATTTTG
Sequence 5773
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TGTTTTAAAATACTTAATAAAATAATTCTTTTCCTGTGGAAGAGAAAAAAAAAACAAAAA
AAAAAAAGTCCTCGGCCGCGACCACGCTAAGGG
Sequence 5774
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TCCAAAGAATTCTTCTAGAACCCTATAAATACTTACTTCAGTTACCAGGTAAACAAGTGA
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CACTTAAAACTTCGACGTGGCTTTTCCAGTGGCCACACATCTATGGAATNCCATCTGTCA
TCAATTCTTGCCAATTACCTGTATTTNCTTTGGCTTGGAAAAAAGTCTTAACCCTTGATC
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GCCTANATATTTACTGGANGGATAATTACCTTGTTCCCACTGGANGGANAATNTNAAGCT
TTGGNGCTTGGGAAAAAAAAAAAAAAA
Sequence 5775
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATGGCTCACTTGTGCCCAGAGGGAGAATA

TABLE 1A

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AAGCCATGTCGAAACTATCTACGATTCCTTGAGTGTTTTTCCAGCTACCTGCCACTTGCC
CACCCACTCCCCTCAGATCTCAGTTAGAACATGACAATTGGGCTCATGAACAGGATCCTG
AGTGGTTGCAGGTGAACAAGCAGTTGGCACAAGGGCAAAGTGATCACATCCTGATTGAGT
GGCTATGGACAGCCATACAGACTGTGTGGAACAACGCTGGTGAAATACCCAAACCGTCCC
AGAACAATGCCTGGCATGCAATAAAT

Sequence 5776

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATGATGTGAGGTGTAAGGCTTATGAC
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AACTGNAAGTGAAAAACNGACTGTNGGTAACCAATGGTGAAGGACGATCATGATTTGAAC
TAAAATGGTATNAACGGACATANTAAGGANTTGAGAAATAAAGAGGAAGTNNTNNTTGAT
TNTGGATATGTTTTGAGAGTNAAACAACNTAATTTNCTGAGAGTTTGGATCTAGAGTGCA
ACAAACGTAGAGTCAAAAACAATTAACTTTTTGGTTTCAACTACTTGATGAATGGTAATG
CCACTAAATAANACAAACCAACTCTTGAAGGATGAAAAATTTGAGA

Sequence 5777

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GATTGAAAGGAAGTTATCTTGGTAAATTGAGACTCAAAGTGAAATACAAAAATGAAAATA
TTTATAATAGGACTCGACTTGGAGAAATTGCTATTCTTCCTGTTGTCCAAACCATAAATC
TGAGGATAACCTGGGCTTTTCTCTTTCCTCTTCTCCTAACCAGTTTTTCACCAAGTCCTG
TGCCATTTCACCTCCTAACGTCTGTCAGCTATCCTTTTGCCTTTACCTCACCACTATTAC
CCTAGAGAAGACTTTCATTTA

Sequence 5778

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGCTGCCGGTATGGGTGACCTGGGCACAGGCA
AGGCCATCATCATCACACACTGTGTGCACCAGAACTCCTCTTGGCATCTCCAAGCCAGTT
CACCATTGTGTGAACTGTGCACTGAAGGAGCTCCACTGGGACTCAGAGGCCTTGGCACAA
CTGCAGCTGTGGAACATTGCGATGAGGAAAGATTGGGAAAATGACAAGAGCCCATTGTCT
GGAATTCATAGGTGCATTGATTGTCTTCAGTATCACCAGCCCAGCCCCATTTGAAGCAGA
GCCAAAGTGGAAAAATGATTTGGACTAAACGTTAACTCATGGCAGACCAGTTTCTGTGGT
TCTGTTGGCCAAGAAATGTGACCATGGGAGGATGAATGCAGAAACAGCAGCCTCAAGATG
GGCCAGATCTACATGGAACATAGTTTTGTAGGATAAATTGAAACATCANCAAAAGAAAAT
GTGAACTTTTGATGNAAGCCTCCANGTGCCTGGATGCCANATAGACAAATTCCAGGAATT
TTAGG

Sequence 5779

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CTGGAGACTCAGGATTCTTTGGATCCATGCGTGGGCCTCACACATCTCTTCCACGTTGAA
TCCCATCAGATTGATGGCAGGAGATCTAGCTTCAAGCCCATTTTCTCTTTTCTCCTCTCT
GGTTGACTGGGGGACACTGTAATTGTTCAAACTCAGCATCTTGGACCTCTTTGCCATTTC
AGAACTGAAAGCCTACAAGAAGCAAAACAGAGCAGAGAGTCATAAACAGGGCTGATAGCC
ATTGTCATTAAAGTCTNCCTNTNTGCACACACAGGCACTTGACTTCATCCACTCTGTCAG
TCCCATTCCTACTACCACAAATCTAAAGCAGCCTTTAGGAAAGTCCCAGAGAAGAGGACC
TCAGTCTATTANAACACGGAAAGAATAAGCATNGGAAAAATGGGAGATGAAATCAAAATC
TGGTATAAATAAAGAAGACTATACATTCCGNGACAAAATATAACCCGTGCATTCATTAAA
CAGAATTTAATGCCCTGCTTGNGCTAAACTAAAGCTGGNGGNTTTGTCACTGAAGAAAAA
AACTNTAGGTACTAATAAAACACCAATTCATTTAAAAAATGGNTTTCACACCAAAACTTT
GGTNTGTAAAATGAATAA

Sequence 5780

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GAATTGTCCCCTGAGTGTGAGAGACAGAGGGGGAGCGTCCGATCAGCGGCGCTGCTGTTC
ACCAGGCCATGAAACTCCTCCCAGGCCTTGATGCTGTCGGTGTGAGTTTTGTATTCCATA
ATGGTGTTGGGAGGTAGGTTAAGCACTCGCCGAAGTGTGTNCCGGATTCGGGCTGTGGTT
GCTTGGTCACTGGCAGTCTTATTCCATATTGAAATAATGTCTTCNTGAAACGGACAAACA

TABLE 1A
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CCACAACCCCAATAANTCTCCTNCCCAACCATGAACTGTTTCCCCCAGCATGGGCCAAAA
TGAAGATTCTCCCAGCAACCGGGAGGCCAAGCCCTTCCCNCAGCCCGAATNATCCACTTG
CCACCATTTTTATTTCATCATCCTCCCACATGGGGTTTAATTCCTTTC
Sequence 5781
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CTTTGGTTCACCCGGTGAAAAAAAAAAAAAAAAAAAAAAAGTACCTCNGGCCGCGGACCA
CGCTAAGGGCGAATTCCAGCACACT
Sequence 5782
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CCCTGCCATAACATCTTTTGCCACGTATAGCTGGAATTAAGTGTTGTCTTGGAGCTGTTG
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TTCATCTATAAAAGTGGGAAGAATAAATTGTATTTGCTTATTTTGGCAGGGCTCCCCAAA
AACTACTCCCAGGCTCNGTGAGCCCCTACATTANACCTCANCAGGACTCGGGAAGTCTTT
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NCAAAAAAAAAAN
Sequence 5783
CCCTTAGCGTGGTCGCGGCCGAGGTACTNTNTTTTTTTTTTTTTTTTTTTTTCACCAGTGT
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GAACTAAAGATTGCTTTAAGAAACAAATATATCATGATTCCAAAAACAAAAACAAACTTA
GGAAAAAACTGTTAAATATAGCATGCTCCANAAAAGANATCTTTATACTTNGGTCTAGAT
ATCTGCATTTTAAACTACTTTGGATTATATTTTAGGAAGATCTATAGCCTAGAAATAAAT
AATTTAAAAATCTACTGATAAGGAAGCAAATCA
Sequence 5784
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GTTTTTATTAATTAACCCATTTATTTATTAAGAAGCCATGTTAAATTTTTCCTGGAACAA
GGTAGGATATATATTTTTAAAATAAATATTCACATGTATTCTTTGTTAATAATAAGAAAG
GTCCCAGGCAAAATTCTAGAGCAGAGTAAGTGCTAGTAAATAAAACAAAAGCAATATATT
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TTCTGGTCTATTAAGGAATATATATGCATTCCACCTCCTTNCCAACATTNAGAGGCAATA
TTTGAAAAAA
Sequence 5785
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GTTGCAGATCCTGATTGTAGGTGGTGTCCAGCTCCAGACTGTGGATATGCTGTGATAGCA
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TGCTACCACTGTAAACAGATTTGGCACCCCAACCAGACCTGTGATGCTGCTCGACAAGAG
AGAGCCCAGAGCTTACGTTTGAGAACTATACGTTCTTCATCCATTAGTTATAGTCAAGAG
TCTGGAGCAGCAGCTGATGATATAAAGCCATGTCCACGATGTGCTGCTTATATAATAAAG
ATGAATGATGGGAGCTGCAATCACATGACATGTGCTGTTTGTGGTTGTGAGTTTTGTTGG
TTGTGTATGAAAGAAATCTCANATTTGCATTATC
Sequence 5786
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTATACTTTGGCAGCTTCTTCACGTCGGTC
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CCCATTGCCTCCAGTTGTTGCACGGAGGGTTTCACATCATATTTCAGAAAGGCTCCTGGA
AAGAAGTGAATATGTGTCGCATCCAGAGAGCTGATGGGGATTGTGACTTGGCTGCTGTCA

TABLE 1A
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TCCTTCATGTCAAGCGCAGAAGAATCTGTGTCAGCCCGCACAACCATACTGGTNAGCAGT
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TATTAAAAAATACAAATATTTAATTTGGGTGTGGTGGTGCCTTGCCTTCANTCCCAAGCT
ACTTAAGGANGGCTGAAGTAGGAGAAATCGCTTTGAACCCAGGAAGCAAAAGGTTGCAAT
GAGCTTAAAATTGCNCNTGGTGCTNNTCCAAGCCTGGGGCAACAAAATGAGGACTTGGTT
NAAAAAAAAAAAAAAAAA

Sequence 5787
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GAAAAACTGGCCTCATATTCTGTATACACAGTCCCTGAACAGGGTTTCTGACTGTGTAAG
TAAAGAATATCACTTTTTGACAAGTGCAGACGCCCCAGGTTTATCTTGGGCCCTCAAAAG
GAGAGGAAATTTCACCCAACTCATGGGTATTTAATGGCATAAATCCATGGCTCGGCTGGG

Sequence 5788
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CTGAAGATGCAGCATAGGAAAGAGACGAGAAGGCTGTGCCCTCACCCGTGTGGAGAGCTG
TGTGAAACGGAGTGGCCTCCAGACACAGCTTTTATTGCCAGTATTCATCCACTGATGGAC
ATTTGGGTTACTCCCACCTTTTGGCTCAGCTGTGAACATGGGTTACAAGTGTCTGTTCCA
GCGCCCTATTTCAGTTCTTTCCAGTATATGTCAAGAGGCAGGATCGCTGGGTCGTTTGGC
AATTCTGTTTAGTTTTGTGAGGAACTCCCATACTGTTTTCCCCAGCAGCTGCGCCATTTT
ACATCCCCAACAACAGTCCACAAGGGTTTCAATTTCTTACATCCTCGCCCACATTTCTTA
TTTTTTGGTGGTGGGGTATTTTTAAAAAATAACACCTAATGAAGTGGTGACGTGGGATCT
TATTTTAANCTTTGATTTGCATTTTCCTAATGAATAAGGGATGTTAAACATGTTTTCATG
AACCTTATTGGNCATTTGGNGNGCTTTTTAAAAAAAGGCTATTTTNGGNCTGGTGGCCNA
TTTTTTAATTGGGGTGGGANTT

Sequence 5789
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TCAGTAACCTAAAACTGATCTTATGAAATAAAGTTAAATCTTGGGGATATGGGTGTGGAC
AGGGCTGGTTTCTTCTGGGGCTCTGATGGTAAAATTTGCTTCCTTGCCTTTTCTCCTTCT
AGGGAGCCTGCATTCCCTGCCTCCTAGTGGCTTCCTCCCATCACTCGAACCTCTGGTTCC
AGCCTCAGGGATTCCTAATGTGACTCTGACCGTTTCATCTCCCGTTTATGAGGACGCTTC
TGGATTGCTAAGATCATACGGTGACACTATGGAAGTTAACTTGAAGATTAAAACCCTGAA
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TGACATTTTCATCCCTTGAAAATGGA

Sequence 5790
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NTTTTNAAAAANGGNCNTTAAATTTTNGAAAAAANCGGNCNCNCAAAAAAAAAAAATTTN
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CNCNTTGGGGNNTTTTTA

Sequence 5791
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AACAAAAAATCAGAAATAAGATTAGTGTGTGGGGGATTCATACATCCTACTCAACTGTCA
GGAAATATCATAATCCTTACTGTTCTATTTTATCCTATCTGGGTGACATTTAAGTCTTTA
GAACAGCAGATATTACAAATCAAACGCCTACCTAAAAATAAAATTTCAAAAAAGAAAATA
CTGATTATAAAAATAAAGCAAATAACTTAGATTCCAACTGGTTACAAGAGCCTTGCCACA

TABLE 1A
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AACTGNGTAATAGTCTTTCTTATGACTCAGTAAAGCATGAACTCCTTTTCTACTTTTGCC
AATTAAAGGAAATCAGAAAAA
Sequence 5792
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTAGTTGAGACAGGGTTTCACCATGTTGGCC
GGGCTGGCCTTGAACTCTTGACCTCAGGTGATCTACCCACCTCAGCCTCCCAAGTGCTGG
TATTACAGGCGTGAGCCACTGCGCCCTGCCAAGCTACTGCATTCTAACCACACACACACA
CACACACACCCCAAAATTTTATGAAGATTAAAGAAAACCTTTTATTGAGGTATAACTTAC
AATAAATAGTGCACATTTAAGTGTGCAGCTCCTTTAATTTTTTACATATGAATACATCAT
TGAGACTTTCTGTAACCCACTTTATACTGTAGTTTGCAAGTGAGCTAANATCGTGCCATT
GCACTCCANCCTGGGCAACAAGAGTGAAACTNCATCTNAAAAGAAA
Sequence 5793
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TTTTTTTTTTTTTTTTTTTGAGATGGAATTTTGCTCTTTTGCCCAGTCTGGAGTGCAGTGG
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CTCCCGAGTAGCTGGGATTACCGGCACCCACCACCACGCCTGGCTAATTTTTCAATTTTC
TTTTTCAAGTAAAGACGGGTTCACCGTGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCA
GGTGATACCCGCCCCCCCGNCTANCCTTCCAAAGTGCTGGGATTACAGGCGTGAAGCCAC
CGTGCCTGGCCCTGTCTCTCTTAAGAGTAGGTTCATTGGCTGGCTTAGAGTCACTTCTAT
TGCAACTCATTTTCTTTTTCCANGGCACAANATTGACCAANCTGCCGGTCCCTTTTCTGC
AGGACAGGACTNTTCTAACATACCTGGCTTNGTCCCCCAAGCCGGGGTTTGGGG
Sequence 5794
CCCTTAGCGTGGTCGCGGCCCGANGTACAGGTGNGCNTCACTAAGGGGCANGCNGTTCAT
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NATGTCTGCTGAGCATGTCCAGGGTGGGTATGGGAGCTGGGATTCATCATTTTGTATGAG
ATGCCTGGCTGCCATAAGGTTGACATGACCCGAATTAGGGCCCATCATGAC
Sequence 5795
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CCTCCCAAAAAAAAAAAAA
Sequence 5796
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TTTGGACATGAGACTCAGCAATCTACATCTTTAAAAAGGCTTCCCAGGTGGTTTTTGTGC
ATACTGTTTGAGAGTCACTAAGTTATATATATATCCTACCTTCTGTAAAGTGAAATGAGG
CCCCAAAAAGCTAAAGAGGTAGAGCTGCTACCTCGTTTTTAGTTGATTCATCATCTAGTC
TATATCACCCAAAAGAATTTGGAAATAGGTATTCAAACAAAAACCTGTATACAAGTATTC
ATAGAAGCACTACTTACAATAGCCGAAAGGTAGAAACCAACNAAATGGTCTATCAACTGA
TGAATGGATAA

TABLE 1A
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Sequence 5797
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ACTTTTTTTTAAAANAAAAAANATNNCTNANNTGNTGAGGTTATTTTCCNGGNCCNTTNA
AAANAAANNTTNNCCNNNTGTGCCNAAAAAAANGNTTTGNCAAAAGAAANANANNGGATG
CAAGTTTGNTNAGCTTTTTTTTTTNAAGGNCNNNNNNTTTTTNCAAANTNNNAAAANANN
NTTTTTTTTTTTTCCCNTAANAAAAAAACCGNTTTTNGGGNTTAANANNACNCCCCNNGG
GNNAANTTNNTGGGGGTTTATAAAAAAAAAAA
Sequence 5798
TGATGGATNTCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCATTTCCTGA
TAGAGACTTGAGATCGTTACCTTTGAAAATGGAACCCCAATCACCAGGTTGAAGTAAANA
AACTGCATGAAGGGGCAGCCTTTTGAAGTTCCCNCCCTTTTNAATTTTTNTNCNNACCNT
TTACGCCGTAAAATGGNGANTTGGAGGAAAGCCCCNTTTTGGACTTTC
Sequence 5799
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGAGTCCAAACTTGAAGATGGTAACAAA
GAACAGAGAACAGACAAANCAAATCTTGGTGGAAAAGGAAAATATGATTTTACAAATGGT
GAGAAGGANAAGAAGAAAANGAANTGGNGATTCTCACACANTAATTTGTNAGCCAAGGAG
GACAGTATTTCATATTTTNGAATGAGGAATATGAAACCCAAATTTAAAAACCAAGAAAAA
AAAGATGGAAAAANTTAAGCAGAAAGCAAAGGAGTTGCAAGNAAACCGTTTAAGGAAAAA
AATTACTGGGATCAGGGAAAGCCAA
Sequence 5800
CCCTTAGCGTGGTCGCGGCCGAGGTACTCNGNGATNAATACACCATTGCTACATTTCTAT
CACTCTCATGTTCCTTGGCCTGTCTTCTATCTTTGTGTGTGTG
Sequence 5801
CCCTTAGCGTGGTCGCGGCCGAGGTACCTTAAAACAATTACAATGTTAATAACAAAGATA
AGTAATCACAGAGCACTATGTCAGATATAATACTAATTTAAAAAGTTTGAAATATAATGA
CAATTAACAAAATGTGACTAGGAGGCTCAAAGTGAGCACATGCTGTTGGTAAAATGATGC
TAACAGACTTGCTTAATGTAGGGTTGCCACAAACAGAAGTAAAAAGTGCTTATTTGCCGA
CAACCTTGCCAAATATTGACTCTATAAAATGGTTTAAAATTATTTATATTACAGATACTT
TGCTTTGCTATTTCTAATTCTCTTATTTTGTAAACAGTGTTATTTTAGCCACATATGTAT
TTCTTTCGCTCTGGATTTCTCATTTCATTTTAATTTTGTGTGTATGTCCTTGATGGATTC
TTTGAATTTTTGTTTTCATTGCATCTTTCTGTATAATTATTCCTGGGATATTGNGTCATT
TTTAAAAATTGCATTTCGTANGATGGATTCCTAATACTTTCTTAACATGTGCTTTTATGT
TATTTTATTTCCCTGGCNTATTACTAAAA
Sequence 5802
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TGGTTTGGTGTAAACTGCAAGAGTGTGTATGCCCTTTTTACCTGTTTTTTTGTTTGTGGC
ATGTGTGT
Sequence 5803
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TAGTTGTTGGCCAAAGATCCATTTGATGAATTTAATTTTTCTGAAATAGACAATTCTGAT
GATTCAGATGATTCTGATGTTAGTTCTGTTTAGAAATAACTCCAAGAATAGTTTTTATAT
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ACAAGCATGGCAAAACCCTGTTTCTACTAAAAATACA
Sequence 5804
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CAAGAGGTCTGGGTCTTAACAAAATGTTTTCCTTTATCTCAGTGCTCTTCTGCCTCTTTT
TGGTGGTGTCCTTTTGAAAAACAATACACCTTCTATTCCTTCATTTTGGGTTACACCTTT

TABLE 1A
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CCTTGTTGACATTTAAGCGAGTTTCAAACTTACTTCCATATGAGGCTAAGAAACCCTCAA
ATTTCAGGAATTGGGGAAAAAATAAAAATTAGCANCTTGCCAGAAAGGTAGCCAACCAAN
ATGGGGAAAAATGCCCTTGGATTTNGACAATTTTTTCTTTTCAAGCATTTTTAAAAAATT
TT

Sequence 5805
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TTTTGTTCTTTANAATTNTNTTTNACANTANAACATGTTTTCCACCATGTATTATTCATN
TATTTAAGAAATATTTATTGAGCCTNTGTGAAGGGACAGGTACCAGNNATGNNCTNTCAA
CAATTAAGGATGCCT

Sequence 5806
GATGGATATCTGCAGAATTCGCCCTTNCCAGCGGCCGCNCGGGCGGGCACAGCAATTTTT
CTTGCCACAAACCTGAATTAACCTTACAGATTTTTTAATAGGAGCCCTGAGATATAATTT
TACTTTTTGGAGAATATACTTACCCTTTTAATAGCTTTTCTTTTTTAGAATAAAAATGTT
TGGAAAACTAGACTCCTGTTTCTCCAGATTAGAAATGAAATTTGATCCTGTGGTGGCAGT
TTTTCTCCCTCTCATCATTACATATGTTAGAAATTCTGATAAGGAGATTGTTAGAAGCAN
AANATNAAGATTATNTAAAAGAGAGAGGAGACTNAAAAGGAGGTGAAATGTAATTTTACA
ATTCCCTGCACCACTTATTTATTTCCTAAAATNTTGNCTCACACAAAAGACATCANAGAC
AGAAAGTTTTCTNTGTCCACATCTCCCATATGGGCAAAGGTAGCTTACCATTTCTTGGAA
AATAAAGAAAAAATG

Sequence 5807
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAANTTTCCTTT
TNACTNTNATCCTTANATTTCCANAAANTTTNTTTAAAAANGNTNACCNTTTNAACCANA
AAATTTTTTTTTTTTTTAAAAATTTTTTAATNATTGAAAAAGGCCNTTTCATCATTTTTTA
ACCAATTTTTTANAAAANATTTNCNTNCCCAAACAACCNNTTAAAAANANAAATTCCANC
NCNCTTTCAACCCTTANTAANAAANCCAAACCTATNCCAAANTTAACNNAAACATNATCA
NAANNTTTTTCCTNAAAAAAAAATTTTTNTNCCCTCNAAAATTCCACAAAANATTCNAAA
CCNNAANCTTAAAATTAAACCTNAAATCCCTAAANAAAAAAACCCTAACCCCCCTTTAAT
TTNCTTTANCCCNAACATCCCCTNTTTTCAAATNAAAAAAACCTTTTTTNCCCCTTNTTA
TTAAAAANAATNNCNCNACCNCCCAAAAAA

Sequence 5808
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTCTTTGCTATTCAGTTGATTTTTTGTAAT
AACACACTTTTAATTTTTTTATTTCCTTTTGTGCATATTCTATAGATATTGTTTGAGGTT
ACCATGAGAGTTATGTATAACATCCAAAGTTACAACAATCTATTTTGAATTGATAACAAG
TTAGTTAATTGATAGCAAATCACTTTCTTAGTTAAGTTAATTCCTAGGTGTTTCATTTTA
TTTGTAGCTATTGTAAATGGGAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 5809
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTAATACCTTAAGGAACCGGAAAATACTAA
ATGTCTTTGGCTATACAACTAAAAGGCCATTCTTTCAAAAGAATAGGGCATATTCATTTC
AGAATCAACTAAAAAAAACAGAAAGCATAACAGAAATATGCATAGAATTTAAGTATACTT
TGTCTTGCCTTCTTTTCCCATTCTACCCACATAAGCAAGGAGAATGCAATTTATATAATC
TTTCCAGATGAGACTCAATAGCACTACAAAGAAAATACCCAAATTTCTGCAAAGGCAAAG
TGAATTAAAATAATTACACAACTAGGTGAAGACTGAAAGGGACAAATGTTATTTGCAATT
TTCTTTTTAACTTGTTTTTAAGCCTTACAAGTGTAGAAATTATAGCTAATAAACAAAAAG
TCACAATCTTCACAAATGGAACTCAATAGAAAAATAAATCAAATGAAACACTTAGTAATA
AATGAAGCCTATTTTATTACTTCAAGGTGTTAATGATAAAAAAATTTCAGCACAAGCTGG
TGGCTTTTAAAAAAGTGAAACTACATACTATGTTTCTAGCTCAGTAAACAGGATGAACCT
GATGGTCTTTNAATGGACATTACCAANTNGAGCATTGGACCTCCTCAANCCACTCTCCTA
AANGATTGGGAACAAAAAGCCAACCAAAAANGAAATCTCTCTTTTAAAATGGAATAAAAT
GGTT

Sequence 5810

TABLE 1A
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CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACTTAATAAATTTTAACAAAGTAAGCACAA
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TGTAATCCCAGCACTTTGGGAGGCAATGCAGGCAGATCACCTGAGGCCAGAAGTTTGAGA
CCAGCCTGGCCAACAAGGCAAAACCCCATCTCTACTAAAAATACAAAAATTAGCTGGCCA
CGGTGGTGCACACCTATAATCCCAGCTACTCAGGTGGCTGAGGCTTAAGAATTGCTTGAA
CCCAGGAGGTGGAGGTTGCAAGTGAGTCCAGATTGCACTATTGCACTCCAGCACTCCANC
CTGGGCGACAGAGTGAGACTCCCGTCTAAAAAAAAAAAAAAAGAAAATTCTTACTGGTCT
AGTCTGCTTTGCTGGCACTTCCTGAGATTTGATTTTTATGACATTTTCTTATTAAACTTT
ACATTTCACTTGGTTGGCATATAGTTTTGGAAGAAATATATTTTTTCTGTATCTAGTTAA
ANCTCCTTTCTCATTCATAACCGTATATTACCNGCTTTTTTTTTCTAATTTATTATTATT
NNCTTGGTGGGCATACNCTTTTGTNNAAAAAAAATT

Sequence 5811
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CCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCGC
CCGCCACTACGCCCGGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCGTTTTA
GCCGGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCGCCTCGGCCTCCAAAGTGCTGG
GATTACAGGCGTGAGCAATTACTGTGTTTCTTATCCATGTAGTGTGCATGCAGTGACCGG
CATCCTAATACGGGTCCTNCTTNTAGCATAGATATGGGGATCAAGCACAAACAAAAGCAA
ACAGGTANCATTTTTACANNCAGCATGNACAGTAAAGGGCATTAAGGGGGTTNGTTAAAC
AATTATCCCAANGAGCCATATNAT TGAATAATNCNAANGAATNTTACTGNGCCTAANAAT
TTTTGGCCACATTTAATTCATTTTTTTTACCNTTTCTTTAAANCTTTNGNCCGTGCNATT
TAANTAATTNNAGTTTCTTGGGTNTTGACTNNNANCAATGGNNTTTGTTTTTTTT

Sequence 5812
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGACCCAAGCATTGGTATCTACGGCCTG
GACTTCTATGTGGTGTTGGGTAGGCCAGGTTTCAGCATCGCAGACAAGAAGCGCAGGACA
GGCTGCATTGGGGCCAAACACAGAATCAGCAAAGAGGAGGCCATGCGCTGGTTCCAGCAG
AAGTATGATGGGATCATCCTTCCTGGCAAATAAATTCCCGTTTCTATCCAAAAGACAATA
AAAAGTTTTCAGAANANAAANNNNNNNNNNNAAANANANNNNNNANNNNNAANNGGTCC
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GCTGCCCTTATTAACCTGGCTCATGCCCTCGGACGTCCTGGANNAATGCTTTTGCTCCTT
TTTTGGACAAGCAATATGAATTTGGGTTACNCAAAANAANTNCGGGCAGCTTTTTNNAAT
TAAAACCTTGAAANNGGAATGTTTTNAAGGCCAACANCCAATGAAAGGTTTTTTTGG

Sequence 5813
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTAACTCTGTTGCATTAATGCTTCAAAAAAT
CATCAAATGATTCATGGGGGCCTGATTTGTATTTGAAAAATGTTTGAAATTAAGAGTCTC
ATTTGTTTCAGGAATGCAGCTACCTGAGTTTTTTGTCTTGGCAAAGTCACAAAGCCCATA
TACTCACATTGTGTGTCTATATTTGCCAATTAATTCTAAACTTCTAGGAAATATGCCCTC
TCTTAAAGGAGAATTTTTTTTTAAATCTCTGAGAAATGAGATTCTGAGTTTATTTCAACTA
AAAGGTTGCAATTCTTCTGAAGATATCTCAAATATAAGGTTGAAAGTTAAGTGTTAATAA
TTTTTGTGAATTTATACACACCTAAACCGTTAAGTACCTCGGCCGCGACCACGCTAAGGG
G

Sequence 5814
GAGCGGCCGNCCGGGCAGGTACGCGGGGGTTGGCTGCANTAAGAGCTCAGTCTCTTCACC
AGGGGCTCCCAGTCCTTCCATCTGGNAGGCCAAGGCGGNTTCACNTTCTGAGAATAGACA
GANCCTNTGTTACTCTGTGACCGGCAGGCACCGGGAGATCCGTAGCTCANACGCCAGGAC
ATCCCGGAAGCTGGGAAATGGGACTGTTGACATTCAGGGATGTGGCCATANAATTCTCTC
GGGAGGAGTGGGAACACCTGGACTCAGATCAGAACTTTTATATGGGGATGTGATGNTAGA
GAACTACGGAAACCTGGTCTCTCTGGGTCTCGCTGTCTCTAATCCGGACCTGATCACCTT
TTNGGAGCAAAGGAAAGAGCCCTGGAANGTGAANAGTGCANANACAGTACCATCACCAGA
TATCTTTTCTCATGATACTCAANGCCTCTTAAGANAGAAGCNTATAAAAACATCATTCCA
AAAAGTGATATTGGATGGATATGGGAACTGNGGCCCTTANAATTNAAACTTAAAGGAAGA

TABLE 1A
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ATGGGAAAAGTNAAGGCCAAAATAATCCTATGGNGAAAAAAAATCAACNNGATATCTNTG
CNTNANAAAAAGGCCCNAGACCNGTGAATNTNTNAGGGNGATAAAGANNTGGNTNNAAAA
GGGGG

Sequence 5815
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TTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTTTTAAACATNACNAATTTATNTANAAAA
NNAAAAATTATTTNGNCAAAATTTNTTCCGGNNAAAAAGTTTTGGGCAAATTANNTNNTN
ANGAANCAAAANAATTATNTAAAGNANAAAANCAGGGGNAGTATCTNAAGAAAANGNAAA
TNTTTTAAA

Sequence 5816
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGGCAGCAGGAGGAGGCAGAGCACAGCAT
CGTCGGGACCAGACTCGTCTAAGCCAGTTGCAGCTTCTCAGCCAAACGCCGACCAAGGAA
ACTCACTACCATGAGAATTGCAGTGATTTGTTTTTGCCTNCTAGGCATACCTGTGCCCGT
ACCAGTTAAACANGGCTTGATTCTTGGAAGTTCTTGAGGAAAACAGCTTTTACAACAAAT
ACCCANATGCTGTGGCCACATGGGCTNAACCCTGACCCATCTCAGAACAGAATCTCTACC
CACAGAATGCTGTGTCCTNTGAAGAACCAATGCTTTTAACAAGAGACCCTTCAAGTAAGT
NCAACGAAAGCCATGACCACATGGATGATA

Sequence 5817
CCCTTAGCGTGGTCGCGGCCGAGGTACTGAGCTCCACAAACGTGGCCATGGTTGGTGCCG
GAAATGATTCTGAGTGAGCAGGTAGAAGTCTCACGTCTGCTGTGTCCAGAGTTGGTTCCT
TCCAGAGGGTTCGTGGTCTCGCTGGCTTCAAGAATGAAGCCCGTGGACCTTCACAAGTGT
GTGTTACAAGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCCTTCAGATGTGTCTGGAGT
TTCTCCCTTCT

Sequence 5818
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTN
TTTTTTTTTTTTTTTTTTTT

TABLE 1A
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AAATATAAACATCTGATTTCAGGGTCTGTGCCGTAATTTCTTTTCTTTTTTTTTTCAAAT
ATTTAAGACTTCAAGGAGATGAGCTTAATTTCATAATGGAGCATTCCTCTTAAAAGTTTC
TGGAGTAATGACCCCATTAAGACAATACAAGGCCAAGTCCTAAAAGCCCTTGGGTATTCA
GGACTTCTGAAAGCCACCCAGACTCCCTGGNGGAGCCATGAAACTTCCAAACTCTTCCCT
GTGTCATGCTGGCAAGCCATNCCAAAGGATTGAGGTGGGGCAA
Sequence 5822
GCCAGTGTGATGNGATATCTGCAGAATTCGCCCTTAGCGTCCTCGCNNNCACTATACATT
GCNATTTATCCAANAAGCTGATTTTCCCTTCAACAATTACCTTAACATGCTATACACTGT
TTCTGGTAACAGCNAGTATGAGGTTATCACATCCTGNATGGAAAACATGCCANAATGAAA
ATGG
Sequence 5823
CCCTTAGCGTGGTCGCGGCCGAGGTACTTATGAAGCCCATCTAAGTAAGATCATTTCTTC
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TTTAAATTGTGATACAGGTTTGACAGCCTTTTAGTCAAATAAGTTAAAACACACACACAA
ACTCATTTACTCACTTTGCCATTATAATTCAATCACAAAGAAATTTTGGCCAGGCCGTGG
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AGGGGATCAAGATCATCCTGGCTAACATGTGAAACCCCGTCTCTATTAAAAATAAAAAAT
TAGCCTGGTGTGGTGGCGGGTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGCAGA
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AGCCTGGATGACAAGAACCGAGACTCCCGCTCAAAAAAAAAAAAAAAAAAAAAA
Sequence 5824
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TAGGTATTTATTAATATCATTCCAAGGAATGACTAGCAGTGCAAAAAATAGGTACTACAC
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TGCCCGCATTTGGATTGGATGAATTCCAAATTCTGCTTGCTTGCTTTTTAATATTGATAT
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GATCTTCTTTATAATTCTACTTTGAGTGCTGTCTNCATGTTTGATGTATCTGAACANGTT
GCTNCACAGGTAGCTCTAACANGGCTGGCAACTTAAAGGGNGGGAGCCAAAGAATTCTNT
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AAGTTAANCGGCCTTAAGTTAACCTTCCAATTACATACTCTGGTTAAAATTTGGGGGGAA
AAT
Sequence 5825
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TCCTAGGTCTAAGTCACCACACCTGGGGCTGAAGCAAGTCTTGCCTGTGCACCAAGCGTG
GCCTTGGACCCTGGAGAGATGCAAGGCTCAGTTCTCCAGTGTTGAAGTGGAAGGACTCCC
AACTGAAGGAGATCTTCCTCTCCCCACCTCCAGCTCTTTTCCCTTACAAATGACCAGGGT
GCAAGTCGAGAGGCAGAGG
Sequence 5826
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTT
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TTNTTTTCTTTTNTTNNGAGNGNGNANAAAAAAAANGGNNNTTNNTTNTAAANNAATGNN
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TATTNAAAAAAAAAAAATTTTTTC
Sequence 5827
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ATNAAAATTGNTAAAAAAAANNTGGCTCATTTNAANNAATTNAATTACTNAAANNCNTTC
ANATTTTNATTNAAAAAAAAAANAAACACTCTTNCTTTTTNAATTTTANTTCCTTTCCCN

TABLE 1A

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Sequence 5828

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCAGCANACGCCCCCTGCTAGATGTGCT
GGATCATGGGAAAGCATTTCCATTTGNTACTAGATTGTTCAGAAGT

Sequence 5829

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAAGTGGTGCCAGAGCTATTGTATTAACTTG
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CCTTGTTCTGTATACTGTAAAAAGCAAACAGGGAGATATAGATGACCACAGCAATTACCT
TTGTTGAGAAAAGCCACATATAAACCAAAAAAATGGGTATTGTCTTTGTTCCATTTTGCA
TCTGCCTACAAACTTCCCAGGTTCAAAAACAAAAACAATTAGTGAAATAACAAACCACCT
TACCTCCTTTGCCAGGCTAGAGATTTTATTTCTCTTAAGGTTCTGTCTGTTACCTAGTGG
TTTTCTTGTAAAGGGGAATGAAAAGTGTGAATTAAAAGTCACACATTGTTTTGTCCTGAG
TCCTAATCACAGTGTAAAAGCAAACAAGTTTATCAGGAACAGAGAAGTGGCAGATATCGG
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AGTTTTATGGGAAAGACAGAGGAAAAGGAA

Sequence 5830

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AAATAAAGCTAGAATTAATGAAGATCCAAAGGATGCTTTGCTGCGTCAGTTCCAGAAAAG
AAANAGAAGAACCTTTNAAAAGAAAGCTTGAAGAAAGGAGAAAGAAAATATCACGGCTCT
GATATCAAGTTGGGTCAGAGGGAAGAATGATGATGAAANAGGGTGAGGTTT

Sequence 5831

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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATTTTTTTTATTTTTTTTTT
TNTTATTTNTCAAANGGGGGGAAAATNANTTTTNTTTAAANAAAAANCTTTATTTAATTT
NNGNAGAAAAATNNAAANTNTTTTTTANNCCAAAAANNTTTTAAAAAAANTTTTTCCANT
TTTTTTTNAAAAAATTNNTNNNNTTAAACCAAAANTTTTTTTTTTTTTTTTTNCAAANTT
TTTTNTNTTTTTNNAAAAAAATTAAAAANNTTNNCCTAAATAAAAAANTTNNCAANCCTN
AATTTTTTAANNCCTTNNCTTNTNTTCNTAAAAAAAAACNAAATCTTNTTTATTNANNTA
AAAANAAAAAANNANNTTNAAAAAACCAACTTTTTTTTTTTTTTTTNAATTTTNAAAAATA
AANTTNNNAAAATNTTTTTT

Sequence 5832

CCGTGCAAAGGTAGCATANTCACTTGTTCCTTAATTAGGGACCTGTATGAATGGCTCCAC
GAGGGTTCAGCTGTCTCTTACTTTTAACCNGTGAAANTNGATCCTGCCCCTTGAANAAGG
CGGGCATGACACANTCAAGACGAGAAGACCCTATGGAGCTTTAATTTATTAATGCAAACG
GTACGCGGGTATACCCTTTATGTTCCTGACTGATGCGCAGAACTTTGGGGGAAATCTACA
GCAATATACAGGTTTGCAAATGCTGATGACACAACAGCAATCCTCTCCTCTACGTTGGAC
TTACTGTTGTTTTTTTAATTATTATTGGAATGGGAT

Sequence 5833

CGACAGTGTGATGGATATCTGCANAATNCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCC
ATNCTGCCCAGANGGGACTACCNAGTTGGCCGNAAATTNTTTNNTNNTTNTTNCACCAGT
GGTTTGTGAACTCCTTGGCAGGGTCATGTCCTACCCCATGAGTGTCTTGCTTCAGTGTCA
CCCTGAGAGCCTGAGTGATACCATTCTCCTTCCGGCCGAGGCCTTTGCCTTGAGTCCATC
CATGCTTTAGCAGCTGCTCCTCAACAAACTTCATCCCACGACTCTTGACCTCTGGGGTGA
CATTCATGGTGAGAAAAAAGTCTCTATCCTCAGACTCTCACCANANAAAGAAGAAGGTGA
TATCATTCGTCATTGCTGGGTCCGCTCCGCGGAAACATGTGCCCGGACCTGACTTGTGCG
CCGCCATCTTCCCCCCGC

Sequence 5834

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CTTAGTCTCAGAGGCCCAATGGGCTGAGTGTGGTGGATTTTGCATTTCAAAGTTAAGCCC
TAAACCCAGCAAACAACCAAGTAAAGATGGTTATTAACCCAACTCAGACTGACTCTGAGT
TTATCCATTTTTCTAGGACTATTTAAGAAACAACTGAGGCATCAGACCAACTTTCCCCAC

TABLE 1A
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AAAGTNCTCGGTAAGGAACTAAGTCCAGTCGCATGTAGAGAGGGGGATCCTGGCCTTCTG
GCTGCTTCCTTACCTAGACCCCACACAAAGGGTGGTGGGAGGAGGCGGGGGGCAGATCTG
GAGGAAATGCCTATGAAAACTGAGATCTAGGGCTTGTGCAGCAAGAACTCAGCATTCTAC
TTTGCTTGTCCTGTAGGGACAGCCCAATGCCTNGGTTTNG

Sequence 5835
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CAAAAGATCCTCCCACCTNAGCCTCCCGAGTAGCTGGGACTACAGGTGTGCACCATATCC
AGCCAATTTTTTAATTTTTTGCANAGACNAGGTCTCACCATGTTGCCCAGGGTGGTCTTG
AACCTCCTAACTCAAGTGATCCTCCCACGTTGGCCTCCCAAAGTGCTAANATTACAGGCA
TGAGCCACCGTGCCTGCCATCATTTTTTTTTTTTAAAGAANACAAAATACTAGTGATGCA
CTTAGTCACTGGTACATTAATAAAAATTGTTACAGCTGGTGATTCTTTTGCANATCAAAA
ACTNTGGTGGACTTGAGAATATAGTCANAAAGGCACACAAAAGTCANAGTAAATAATAAT
GGGAAGAGACTTTTTGCCAATATTTCACCCTGTCCACAGGTNGATCCCAAACAATTCATT
TTTCCCACCCCAAGGGACAGGCGGCTGGATAATGCTTGGNGATTTGCTTGAAGGGGGGTT
TGC

Sequence 5836
CCCTTAGCGTGGTCGCGGCCGAGGTACAATTGTTCTTAGAAGATAATTTGTTTTTCTCTC
TTCAGTTTCGCATATTACTAAAGACAAATCATGGTAGGATTGGTTTGTTTATTATACC

Sequence 5837
CCCTTAGCGTGGTCGCGGCCGAGGTACACAACATTTTATATATGAAAAGAATGCTGTAGA
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TGGAAAAATTAAGATTTCAACAATTTTACACATATTTTGAAAATAATTTTGATAATGAAA
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CCGCTCGAAAGGG

Sequence 5838
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GATCTTTCCATTTGCAAAAAATTAATAGTTTTCCCCCACAAATGTACCTGCCCGGGCGGC
CGCTCGAAAGGG

Sequence 5839
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGCTTTTTCTATTCCCTGTGAGTTTATAATT
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AAGACAGAATCAGTGAATTATAGGTCTGTTTAATAGAAATGACTCAAACTGACACACAAA
GCAAAAAAAAAAAAAAAAAAAGTACGCGGGTCTGTAATGATACTGATTATGAAATGTCCC
CTCAAACTCATTGCAGCAGATAACTTTTTTGAGTCATTGACTTCATTTTATATTTAAAAA
ATTATGGAATATCATTCTGTCATTATA

Sequence 5840
CCCTTTCGAGCGGCCGCCCGGGCAGGTCCGGGCAGGTACTTGCATTTCTTTTTTGTGCAC
TCTATAAGGCTGGTTGTGACCCAGATCAGCTTAACTTTTTATATTATGTTATTTCACTAA
CTGCTACAGTCAAAATGATCAAATCTTTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 5841
AGCGGCCGCCCGGGCAGGTACAAGCTGATCTCCCCGCTAAATGAAAAAGGGCAAGATACT
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CTGAGCGGGCCCAGCGTGCCAGGCATGGGAGGAGATGGGGAAGAAGATGAAGGTGATGAA
GACAGGTTGGACAATGCAGTCAGGGGCCCTGGGCCCAAGGGGCCAGTTGGGACGGTGTCG
GAAGCTCAGCTTGCTCGGAGGCTCACCAAAGTAAAGAACAGCCGGCGGATGCTGTCAAAT
AAGCCACAGGACTTCCAGATCCGCGTCCGAGTGATTGAGGGCCGACAGTTAAGTGGTAAC

TABLE 1A
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AACATAAGGCCTGTGGTCAAAGTTCACGTCTGTGGCCAGACACACCGAACAAGAATNAAG
AGAGGAAACAACCCTT
Sequence 5842
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CCNGTTATTTTGAGGGGCANANGACCTNANAAGGCATTAGTTTTTCTCNTNCTCTGGTAA
AAAAANCTTATCNTAATGGGCTATTAATTTATAAAGNGGCNANAATAATTNANCAANGTT
NGTTTGGGGGGNAGGGAATNGTTAAAAAAATTAAAAGCCGANTCNCAGGTCCACCTTGNA
TTAGGATATATTTAACCTTTTTCTTTTNGGTANCCCCCCTTTCTTCTTGGGAATTT
Sequence 5843
AGGGCGAATTGGGCCCTCTAGTATGCATGCTTCGAGCGGCCGCCAGTGTTGATGGATATC
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CTGGTCGTANGCAGGTATCAAAAAGGGGTCTTGGA
Sequence 5844
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGAGTTCTCACGTGCGTCTTAAGGCATGAGT
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CTTCCAATTGTATCCCANTGGATGTCTGACCCCTCAAAAAAGTCCTGCTGAAGTATAGAC
CACTGGGTTTCAAGTNGNATTTNCCATCCTTGGAGAACTCTCCCTGAACTGTCCTTGACT
CTTCTTGTCCAACCAAGAGATTANACTGGGTTTGATGATCTGACCTCCTACTGTGGCCAG
NNTCTTGTAGTTCTNCAACATCACGTCACTGTAAANGCTTCTCTGAGTTGAGTCCAGTAA
AAGTCCACTCCTCCTGGGGTGAAGTCCACAGCCACATCGTCAAAGGTCACTGAATCCATG
GGACAAAATCANCAGCTGCCATCCCGCGAGGTGAGAAACGTGTCANAACCCTCCT
Sequence 5845
TTTCGAGCGGCCGACCGGGCAGGTACAAACTGTTNAATTTGTCAATAAGTGACAAAAGAA
TTNCACAAAATCATGGAACTCTCAAACTCAAGTAAACCAAAAAATAGTTAACCAAATAAT
GATCTCCGTCAGACAGTGATTTTGAATGAGAGATCATATCNGTAAGTTNAAAAAGTAAAA
TTNAAATGCAATGNGATNGAAATACCTCTGAGTTTTACATANACTCCTTATNTNTTATAA
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GACACTNATGCCAGGAA
Sequence 5846
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTT
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GGNNCCTATTTTTAAAAAAAAAAAATTNNNNGGGNNNTTTTANAAAAANAGAAATTTTT
NATTTTNNAAANNNANNNNTTTTTTNGGGGGNGNTTAAATTTTAAANNGGGGGTGGNGGG
AANNNTTTTTTAAAANANANTTTTNAAAAA
Sequence 5847
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AAAGGAGAAAATGTGATTGTGTTTTTTTTTTACCAGCCTACTTCTAAGTGTCACTGCCTG
GTTTTTCTCTTTTTTAAGGATTAGAACTAAGAGGACACACCAGCATCGGAGTGTATTAAG

TABLE 1A
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CCCCTGAAACACATGGTAGCTAGGGACTGAACACAGGAACCGTATGACAGCAGCACAAAC
CCCCAAAGGATGTTCCTGCCTTGTGGGCCCCTGAGCCCCTTGGGAGACTGAGAATCATGA
CCAGATTCATCCAGAACTGCTGCAGTGTTAAGTGAAAATCCTCTGTAGTTGTTCTGCANA
GGAACCTTCCTTCCATTAAAAAATTTCTGCTCAATACAGAATGGTCCACATCACCCAAAA
GTGCACTGTTGGAGATGCTGTGAAAATTA
Sequence 5848
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAG
CGGTGCCTGGAATATTTGGGCTATCTAGGCTATTCAATATTGACTGAGCAAGAGTCTCAA
GCTTCAGCTGTTACAGTGACAAGAGATAAAAAGATAGACCTGCAGAAAAAACAAACTCAA
AGAAATGTGTTCAGATGTAATGTAATTGGAGTGAAAAACTGTGGGAAAAGTGGAGTTCTT
CAGGCTCTTCTTGGAAGAAACTTAATGAGGCAGAAGAAAATTCGTGAAGATCATAAATCC
TACTATGCGATTAACACTGTTTATGTATATGGACAAGAGAAATACTTGTTGTTGCATGAT
ATCTCAGAATCGGAATTCTAACTGAAGCTGAAATCATTTGTGATGTTGNATGCCTGGTAT
ATGATGTCAGCAATCCCAAATCCTTTGAATACTGGCCAGGGATTTTTAAG
Sequence 5849
CCCTTAGCGTGGTCGCGGCCGANGTACCAGCTAGTGGACAAGATAGTGCACTGCATGAGA
CCGTTGATACAGCCAGAAAACAGGGAGATCTTGAGGCATGGAGTATCCGGTAATGTTACA
ACCGATACCGGCCGGGAAGGGGCCAGGAAAGGGAGTCAAGCAGGAGCGTCTGTCCGAACG
GAGGCTAGGTAAGAATATTTCACCATGAAAATGTTAAAAGACATAAAGGAAGGAGCTAAA
CAATATGGACCCAACTCTCCTTATATGAGAACGTTATTAGATTCCATTGCTCATGGAAAT
AGACTTATTCCTTATGATTGGGAAATTTTACCTAAATCTTCCCTTTCACCCTCTCAGTAT
CTACAGTTTAAAACCTGGTGGGCTGATGAAGCTCAAACTCAGGTAAGAGAAAACACACAA
GCACAGCCACCTGTGCCTGTTTTCTTTTGAACAGCTAATGGGAGTTGGCCCTAATTGGGG
TTGATTAGAAAATTAAGCAGTAATGAAGAATGTTGCCATTGTTCAGCTGTGCACTGTGTG
CTTACAGGCATGGAAAAAGAATTAAGTGTTACAGGGGAAAAAATATNCTTCTTTCANTTG
TTTTGACTTAACTTGCCAAACCAGTTTGGGGTGGAGCCAATGGCCACTTNAAACAGGAAA
AACCTAGAGGCTTTTAAA
Sequence 5850
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGAGTTCTCAGCAGGAGTGCCAAAG
AAAGAAGTAAACTGAAGTTGCAAAGCAACAGTAATACTGCATTCCTCGTTCAGTATTGAA
AGATTGGCGTAAAGTCAAGAAGCTGAAGCAAACTGGGGAATCCTTTTTACAGGATGACTC
CTGCTGTGAGATAGGGCCTAATTTACAAAAGTGTCGAGAATGTAGACTTATTCGCAGTAA
AAAGGAGAAGAACCAGCTCACTCACCAGTATTTTGTAGATTTTACTACTTTAGACGGTTG
TCATTTAGTAAAAACGGAGTAGTTAGAATAGATGGTTTCTCTTCTCCTGACCAATATGAT
GATGAAGCTATGAGTTTGTGGACACATGAAAATTTTGAAGATGATGAACTAGATATAGAG
ACTTCTAAATATATCTTGGATATAATAGGTGATAAGTTCTGTCAATTAGTAACATCTGAA
AAAACAGCTTTGTCCTGGGTGAAAAAGGATGCCAAAATTGCCTGGAAAAGAGCAGTGAGA
GGAGTCCCGGGAGATGTGTGATGCATGTGAAGCAACCATTGTTAACATTCACTGGGGTCT
GCCCAAAATGTGGATTTGNGGNCTGCTTANATGGTACAAGGCA
Sequence 5851
CCCTTAGCGTGGTCGCGGCCGAGGTACAGAATGTAAATTATATCTCAATAAAGCTGATAT
GTGCATACACACACACGCACACCCAACAGCAGAAGAAAATCCTAAAAGGTAATGAACAAA
AGCATTCAGATTAAAGCATGAGAATCTGAAGGTTTGGTCATCTACATCTTGTTCCATAGA
TAAGCATGGACTGTCTACTAAACACAGTTGTCAACTTGATCCAAAAATCTTCGCTGGATT
CTGTTTCTTTCAAGACTGTTTCTAGAGGGGTCCACAAATAATTATCTTTGAAGTTTCTGA
TTAGGACATCTTTCCAGGGATTCTAAGATTATTTATGCCTCTTTAATTAAAAGACTTTAA
GGATCAATATATTGGAGTTGCCCTCTTGTGTCCATTATTAGCAAGTATTTGATATCAACT
TTTTCATTCCGTGTTCTAGAGCTTTTTCTCTTATTTCTTTAAAGTCAGAACACCAGATCT
TCANGTTTACGATCATGCAAGTTTTTAGGGAAGATTATGAGAAAAGGTTGCCTGTGCCTG
TGGATCATAAGGTTGAATGTGGTGCATTAATTCC
Sequence 5852

TABLE 1A
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CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTGGGTTTTTTT
TTTTTTTTTTTTNTTTTTTTNTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTNTTTTTTGAAAAAAAAAAANTTTTTNTAA
AAAAAATATNAAAANGGNGCAAAAAANGTNAAAANNGACTANNNCCCNANANAATTTTTTT
NNGGNGGGATAANNTTTTTGATGAAAAAAAAANAATTTTTTTTTTTTTTTTCANNANATTN
TNAATATTTNTNAAATNTNANATTNTTTTGNANGNNAAAAAAAAAANTNCCCNAAAAAAAA
AAATTGTTNTGCNTNTTTTTTTNTTTGNGGCGNNTTTTTTTTNNGGGGNAAAAAAAAACC
CCNTNTTNTTTTTTAAAAAAGGNGGNNTNGNTGANAAAAAAAAANAANNCCNCNNGGNGG
NGGTTTTNCNNAAANNTTTTTTTNAAAAAAAANANCCNTTTTTTNNAAAAAAAAGGGGG
Sequence 5853
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAGTTATTATCTGACTTTCTGGTTATA
ATCATTCTAATGAGTGTGAAGTANCCTCTGGTGTCATTTGGATTTGCATTTCTCTGATGA
GTGATGCTATCAAGCACCTTTGCTGGTGCTGTTGGCCATATGTGTATGTTCCCTGGAGAA
GTGTCTGTGCTGAGCCTTGGCCCACTTTTTAATTAGGCGTTTGTCTTTTTATTACTGAGT
TGTAAGAGTTCTTTATATATTCTGGATTCTAGACCCTTATCAGATACATGGTTTGCAAAT
ATTTTCTCCCATTCTGTGGGTTGTGTTTTCACTTTATCGATAATGTCCTTAGACATATAA
TAAATTTGTATTTTAAAAGTGACTTGATTTGGCTGTGCAAGGTGGCTCACGCTTGTAATC
CCANCACTTTGGGAGACTGAGGGGGGTGGATCATATGAGGAGGCTAGGAGTTCGAGGTCA
GCCCTGGCCCAGCATAACCAAAACTTGGCTCTACTAAAAATCCAAAAATTAAGTCAAGGC
ATTGNGGGTGCACCTCTGGTAATACCAAGCTTTNTCAAGAAGGCTTGAGGCACGAAGGAT
CCACTTGAACCCCAAGAAGGAAGGAGGTTGCCAATGAGCCTGANAACATGCCAGGGCAAC
AAAAATGANACTTTTGTTTAAAAAAAAAAAAAAAAGTGACTTGATTTAAAG
Sequence 5854
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAGTTGCTCCTTCTGTAATTCTTGCACTAAA
ACTCCATTAAAGACCATCAATGAGCCAAATAGTGTGCTAGCCTTGAGGATGGAGTTCTTA
GCTACTTAATGATTCTTTTCTTCTGGAAATCTTCTAGTGGATAATTTTTAAAAGCTTCTT
TTAAACTGCTCAGTAAAACATTGCCATACATTAACTCTCCATTTCTGCATTAATTTCATT
TGCTGGAAAGAAATTATTTTGTTAATGAACCAAACCCAGCCATTAAGTTATGTGAATTCA
CCTTCTCTAGACACATTGAGGTATGGCAGAGAAGACACATATTCCCTGGCCTAGAGTGGG
CTGACAATATTGTTGCCTCCCCTAAATTGACTCAATCTTGAGAACCACATACTGCAGTGA
CAAGTTGATCATGGATCAAGAAATATTCCTTTTTCTCCTANAGGAAATCCCTCATGGCAT
TATCATTCCCTAAGGCAATGANGATGTCCCTTCGCTCAAATCCTAAAGCCCCC
Sequence 5855
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNACACAAAAAAAAAAATTTTTTTNCNCCCC
AAAAAAATNTTNCNANNAAAANTTNNNCTTTTTTTNAAAAAAAAAAATTTTTTGGGCANA
AAAAGNNTTTTTTTTTTTTTTAANGGGGGAAAAANNTTTTNTTNGNGCNTNNANAAANTTT
TTTTTTNGNNAAAANANNANANTTTTAAAANNNNGGGGNNGGNGNGTTTTTTTTTTAAAA
ANAAAANAAANNTANNCCNNANNNTTTTTTTTTANAGGGGGTTTTTNTNAANCCCCAAAA
TNNANTTTTTTTTTAANNNCNTNTTTTTTTTTCNNACNCNAANNTNNNCCCCTTTTCCCCA
NANANTNNNAAAAAAANNTTTNNGGGGNTNTTTTATTTTGGGAAAAAANANT
Sequence 5856
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCCAGAAGCCCTCCTCTTTCCCCATCTTAAC
ACTGTCTTCTTTCTTGCTGAAAGTTACTATCCTGACTTCTAAAATCATAGATTAGTTTTG
CCTGTTTTTTTATTTTATGTAAATGTAATCATACATAATACACTTTTTTTCATTCATCATT
TTTGTGAATATTTTAGTTTCTTGTTGCCACTGTAACAAATTACCACAAACTTAGTGACTT
AAAACAACACAGATTTATTCTTTTATAGTCCTGGAGATCAGAAGTCCAAAAATCAGTTTC
ATTAGGCCTAAATCAAAGTATCAAGCAGGGTTGGCTCTTTATTGAGGTTGTGAGGGAGAA
TGTTTTCTTCCCTTTTTTGGCTTCCAGTGACGGCCTGTATTTATGGGCTTGTGACCCCTT
CCTCTCTATGATCAAAGCTTGCTTTTGTCATTATATCATCTT
Sequence 5857

TABLE 1A
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CCCTTTCGAGCGGCCGCCCGGGCAGGTACACTAGGTAATAAAACTGATTCATACAGTCTA
ATGATATCACCGCTGTTAGGGTTTTATAAAACTGCATTTAAAAAAAGATCTATGACCAGA
TATTCTNCTGGGNGNCTCCTCAAAAGGAACACCTATTAAAGGGTTCATTTGGAAATGTTT
TTCAATCCATTTGCCTTCCCATTGATCCTTCTAACATGCTGGTTGGCATCACACCTAATA
TTCAGAGGGAATGGGCAAGGTATGAGGGAAGGGAAATAAAAAATAAAATTAATATAAAAT
AGAATGACACAAATTTTGAGTTTTTGTNGAACCTCCTGAACAGTATGGTCTTAAGGGACC
GTTT

Sequence 5858
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTTGCAATTTTTTTATCTGTGAAAATATTT
TAAAGCTCTTACAAAACTTAAATTTTTAAAAAATCAGCTCAAAAATTTTTTCCATGTTGT
TGGGCATACCACTGCTGTCTCTGCTTTCGGTTTTCCAACTCTGTAAGAAGGGCTTGTCTG
TATGCTTCATACATTTTAACAATCTGCTCCAATTCTTTCATGAAGAGCAACTTTAGCATT
CCCTGGTATGTATCCAGGTCAGCCAGCTGGAAGAGTTCCCACTTCAGAATGTGGTCATAT
CTGTTTTAAAACACAATCATATATATGTTCACAACACATACATAAACATGTATTTCTAGC
AAGAAACTAGTCTGTTTTTTAAAATGTCAACTTTATTTATAACTAAACAAACCATAAGTT
TTAATTAAAAATAACTGGGCACAGTGGGTGGCGCCTATTATAGTCCCAGCTACTTGGGAG
GCTGAGGTGGGAGGCTGAGATTAACTTTGGGAACCACCCGCGCCCGGCCTACATATAATT
CTTCTAAGCCAANGAGAAAAACTGCTTAATATTACTTCATTTCAATTTAAGTTAAAAGAA
TACCTATTTCTTTAAATT

Sequence 5859
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCATTCATTTAAAGGCNTAAATGTCCAATGGG
GCCATCTTGTGATACATGCACTGTCACAGGAAAAGTTTCCAGGAAAAGTCAAGCCAGGGC
TTCACAGAAGATCAAAAGAAAGAGACAAGGGGAAGCTAAGTGTATTAGTCAGGATTCTCT
AAGGGACAGAACTAATAGAATATATATACACACACAAACACACACACACACACACATATA
TATACATATAAATAAAAGGGGAGTTTATTAAGGAGTATTAACTCACACAATCACAAGGTC
CCACAACAGGCCGGGCCATC

Sequence 5860
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAAGGTGA
TGATGCAAAGGATTTTATTAGGCAGTGGAAGTAGCTNTCANCANAAGGGGAGCTNAAAGG
GGGGTGCAANAAAGAAAGGNGAATCCTTTCCTTGAAAGCCTGGGTCGTCTCCATNTGGGC
TCCTCTCCAAAGTTGTGCCGTCTGAAGTTAAGTCGCATCTATCCATAGTCTCAAATGCCC
ANTTGCTTCTTCACCTCTTGATATTNANCTGCTTGNGTTGCTNTGCCANCTGAANTCTGT
TGTGGGCACANAATAGGGGCANACTGGGCCAAAAAGGCA

Sequence 5861
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTG
GGGACGGAATCTTGCTCTGTCACCCAGGCTGGAGTGCAATGGTGCGGTCTCAGCTGACTG
TAACCTCCGCCTCCTGGGTTCGAGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTA
CAGGCACCCACCACCACACCTGGCTAATTTTTTTGTATTTTTAGTAAANACGGGGTTTCA
CTATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCGTGATCCACCCACCTTGGCCTCCC
AATCTTATTTGCTTTACAAGTCCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCC
CTCCCAGCATTTGCCAGGGACTGTCATTGCCTTAGTTTATTTTTTCTGTTTTGTTTTTTT
TTTGTCGTTTTTGGTTTTTTTTGAGACAGCGTCTTATTCTGTCGCCAAGGCTGGAGTGCA
ATGGCGCAATCAAAAGCTTGCTGCAGCCTTGAACTCCTGGGCTCAAGCAATCCTNTTACC
TNAGCAACTAAGGACTACANGCACATGCCACCACGCTTGGCCTTCTAAATTAATTTNTGG
GGGCAACAAAAATAAAACTCAGGCCTAGGAATAGCTTTGGGTTCAAAAANTCACAAGANG
GGACCTAATTTTTCCCATTAATACCAANTGGGAAACCATTAAAGTTCATCATCCGGATGA
TTNAAAGGGAAAAAAAAAA

Sequence 5862
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGACTCTGAAGTGAAAATGGATTTT
CAGAGGATTGAATTGGCTGGTGCTGTGGGAAGCAAGGAGGAACTTGAAGTAGACTTTAAA
AAACTAAAGCAAATTAAAAACAGGATGAAAAAGACTGATTGGCTCTTCCTCAATGCTTGT

TABLE 1A
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GTGGGGTTCCTGAAATTGTGCCAGCCGACTCCAGGTCCACCCTGACCCCACAGCATAAAC
CATGCTGTGATGTCACAGCTACCATAGAACTCCAGGGTAGTGTTGGGCTGGCCCATGTGG
GCTCAGGGGTTGTAGAAGGTGATTTAACTGCCATAGAAGCATACAAGTCATCAGGAGGAG
GCATTGCACGTCAGCTCACCGCAGATGAAGTACCTCGGCCGCGACCACGCTAAGGGCGAA
TTCAAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnTAGGGTGAAATTGGTATNCCNTCACAATTCCCACAACATTC
NAGCAGGGAGCNTTNAAGTGTTAAACCTGGGGGTGC
Sequence 5863
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAGTCCAGGCCCGGCACGGTGGCTCACACC
TATAATCCCAGCACCCTGGGAGGCCAAGGCGGGTGGATCACCCGAGGTCAGTCAGGAGTT
TGAGACCAGCCTGCCAAAATGGCAAAACCCTGTCTCCACTAAAAATAACAAAAAATTAGG
CGGGTGTGGTGGCAGGTGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCA
CTTGAACCCGGGAGGTAGAGGTTGCAATGAGCCAAGATTGTGCCACTACAGTCCAGCCTG
GGCAACAAGACCGAAACGCCCGTCTCTTTAAAAAAAAAAAAAAAAAAAAGTGCAAAGTCC
TATGTATTCTTCAAAGTTGTTAGGAAAGAAAACAAATAAGGTTAGCTACATATTTAGCTA
ACCTTAAATTTAATAAACTATTAAGTTATTTAGGTCAAAAAGAATACTAAATGGATGCTT
CAAATTTCAACCAGTATTTTCGATTTTTTGAGGTCTATCATCTGAACCCTTAGTGGCAAA
CAATTCCAAAATTCAACATATTTTTATTTGTTAAATATNTGAATNTTATTNAATNTNTTC
CTTAATAAACTGACTGGACAAAACTAGAAAACAACCNTTTCAATCTCANTTAACTTTNAA
ATGATTTACCTTGAATTTTCTACTACCATCTTAAATCCGTTTGAATTCCTTCCANTACTT
CNATTTCTAAATGCTTTTTTTTTT
Sequence 5864
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCATTCATTTAAAGGCATAAATGTCCAATGGG
GCCATCTTGTGATACATGCACTGTCACAGGAAAAGTTTCCAGGAAAAGTCAAGCCAGGGC
TTCACAGAAGATCAAAAGAAAGAGACAAGGAGAAGCTAAGTGTATTAGTCAGGATTCTCT
AAGGGACAGAACTAATAGAATATATATACACACACAAACACACACACACACACATATATA
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CAACAGGCCGGGCCATCTGTAAGCTGAGGAACAAGGAAGCCAGTCTGAATCCCAAAGATG
ACAAACTTGGAGTTCAATGTTCAAGGGC
Sequence 5865
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTGAGACAGAGT
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CTGGGCGACTCAGGGAGCCTCCGTCTCAAAAACAACTTTTTTTCATCCATGGACAATTGT
TGTCTTGTTTTGGTCCTCTTTAGGAGGTGGTTTTATAATCAGCTATAAAACTCCAATAGG
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AACCTTCAGGACTCATGGAGAGCTAAATGTTCATGAGTATCAAGCAGGAATTAACAGGAA
TTAACTGCATGGACTGAACCAATCTTTTTTACTTTTTGCTCAAAATATTTGCTGGNCCTT
TGGATTTGCGTTTCCGAGTCTTATGACTTTTCTTTTGAGCTACTGACAAATTT
Sequence 5866
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGGATATCACTGCTGGTTATTCAGGTCCCA
AAGACACTTCAATTAGCATGTAATGAAGGCCTTCAAGGCAGGGGGTTACCTTCTGGCCTA
GAATGTGTCTAGAAATGTTGTCTAAGAGCTAGATCCTGGAATGGGGACCTCGTGACTACG
ACTGGTGCCCTATTCTACTGTGGCTGATCTGGTATCTAGGAAGCAAGACAAAGCCTTCCC
TCTCTTCCTTCTCCTCTTCTCAAGTAAAAGGAAAGGGTGTCTTTTGGAGTCATGAGCTGT
GAAGCCTGTAGTTAAGGGAGGGGTGACACTAGCACTCCCTTGGCTGTCCCAGCTGGTGTC
TCAATATGTCGTCTGCTCCCCCTAGTTCACTGTCTCTGGGCCTAGTTCANCTCTAGGATT
CACCTAAGAGTTACAGTCCTTATGGCCTAAACTGCCTTTCAAGTTTACTTAGAGACCAAG
AGCACTTTGACTCTCAATGGCAAGGTCTGCANGCACTCANTCTTGGACCACTAAGATCTA
CNGGTTCCCCTCTGACTANGGTTGGTTTAAGTG
Sequence 5867
CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTAGAGACAGA

TABLE 1A
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GTCTTGCTTTGTTATGCAGGTTGGAGTGCTGTGGCACAATCTTAGATCATCACAGCACTG
AACTCTAGGCTCAAGTGATCCTTCCTGCTTCAGCCTCCCCAATAGCTGGGACTACAGGTC
CGGTTGATTTTTAGAATTTTTTTGTAGAGACAGAGTTCTCACTATGTTGCCCAGGTTGGT
TTTGAATGCCTGACCTCAAACAATCCTCCTGCCTCAACCTCCCAAAGTGCTGGGATTTCG
GGCGTGAGACACCATGCCTGGCCAACGTTAAGCATCTATTCATGTTCTTACTGGCCATTT
GNGGATTTTCTTGCCTATCCAAATTCTTTACCATTTTTATACCGGGATTANTTGNCTTTT
TATTATTAAAGTTGGAAAGAAGTCTTTATATATTCTAAAAATATTCCTGCTGAACCCCAT
AAANANACATGGTTTACAAATATTTTCCCTCATTTTGAGGGGTATCTTTTATCCTTCACT
TTCCTGACAGGGGNCTTTGAAGTATGAACANTTTTAAATTTTGATGAAAAGCCCAATTTA
ATCTATTTTTTT

Sequence 5868
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTAAATCACCTCTAGATTACTTGTTATACC
TACTACAATGTAAATGCTATGTAAATGGTTGCTATACTATATTGTTTGTTTGTTGTTATT
GTTGTTGGATTGTTATTTTTTATTGTGAGTTTCTTTTTTCTGAATATATTTAATCCAGGG
TTGGTTGAACCTGCAGATGCAGAACTCCCAGATACAAAGGTCCAACTGTATACATATTTT
AAAACAATATGTTATACATAATAAATATAT

Sequence 5869
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGCTGAGAGATTGGGAGAAGCTTTTGATTC
TCAGCTGGTTATTGGAGTAAGAGAATCCTATGTTAACCTTTGTTCTAATCCTGAGGATAA
ACTTCAAATTTATAGGGACAATTTTGAGAAGGCATACTTGGATTCAACAGAGAGATTTTA
TAGAACACAAGCACCCTCGTATTTACAACAAAATGGTGTACCTACACAGGGCCCCTACAG
CATGGTATCGTCTACTCAGGAGGTTCTTCTGATACGATCTGTGACCTGTTGGGAGCCAAG
GGAAAAGACATTTTGTATATTGGAGATC

Sequence 5870
CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTTATTCCAGTAAATGCTGTAAGATTATATT
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CAATGCCAGTATGAAAATAAAAAATTAAGTTACACTGATACATCCAAGTTTTTTTTAATA
TGCAGTGATGAGCACAAACATTAATAGAGATAAAATACTGATGCAAATAACACACCCCAA
AGTAACAAATGCAATTATTTTCCACCATTTACAATACAGTAGTTACAATGACACTCCAAA
CAGAAAAGCAAAGTAAAAAATCAAAACCCCAATTTCTATTCATGTAATTAGACTTATACA
GAAATTAGAAGGCTAAATAACAACTAGTTAATCACCTAATTTCACAGCTATCTGAAGTGG
CAATCGTTATATAGCAGCTTATCTATGATACATTCAAGATAAAATGATACAATTTATTAC
TTGCCTGTAAGCTAAAAACACAGNCTCAATTTAATACCCTTTCCTTAAATTNCAACTTTA
CACTACAATATACTTGANGGCTATGCAAAAAGGAACTTCCNTTTATATAAGGAAATGGAT
GGATTAAGTCTTTGGGGCTGNAAAAAGCCAACTTNTTTTAAACCGAACTTAACCACTTCC
ATTACCACCACCCA

Sequence 5871
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTATATT
TTTAGTAGGGACAGGGTTTCACCATGTTGGCCAGGCTGGTTTCGAACTCCTGACCTNAAG
TGGTCCGCCCCCCNTGGGCCTCCNAAAGTGGCTTAGGATTATAGGTGTGGAACCACCGCA
CCTGGCCCCANATAATTTTTTAATAGTCTCTCGTATTACTGAGTTTTTTCATATTATATA
TAAAGATTCTGTATTTGTTTGTTGTTTTCTGN

Sequence 5872
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTNTTTTTTTTT
TTTTTTTTTTTTTTGGGGGGGGTGTGTGTGTGTATCTTATTAGTTCTGTCCCTCTAAGAG
AACCCTGACTAATACAACCTTCAACTTAGAAAAGTTAAGAAAAGAGCAAATAGGAATAAT
ATAAAAATTGAGAAGATAAAGACAAGAGGAAGAAATTAATAAAACAGAAAGCAAAGATNG
ACTAGAAGGAAACAACAGAGCCAAATATTGGTTCTTTGCAAAAACTAATAAAATTGGCAT
ACCTCTGGCAAAAGTGAATGAGAAATACAGAAAGAGGGCACAAATAATATTATGAATCAA
AAAGGGACACAACTACNGATGTAGCAGATATTAAAAAGGTAATAAGAGAAATTTACTAAA
TTCCTTAGGTGAAATAGACATATTCCTAGGAAAGTNTGAACTCCAATATGGGCTCAAAAA

TABLE 1A
512/599

GATTCAAAAAATCTCTAATTTAAAAATTAAAG
Sequence 5873
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATCATCAGAACATACTAAAATGGAAGTCCTT
TGGATTATAGTTTTGTTTATGGATATTACACAATGAATGCTTGTCTGAACAGTTCTTACT
TGCCAGTTCCACTATTCTTCATCTTCACCACCTTCTACTGGTCAGTCTTTCATCACTTAA
AAAAAAAAAAAAAAAAATCACACATCATTGTGGTTTTTTTCCCCCTTAATTCTGTCTCTT
CTAGCCAGAAGCATCTGGCTTAAGCATATTTCATCAACTTCTCTGTTATTTCTTTTAAAG
ATCTTTATCTCTGAAATTTTCCCAGAAGATACAAGTTTTGGTAATATTATCAATAGGAAT
TTTGGAGACTTGGGCATTCATCTTTGTCTCAAAAACAAACAGAAAGCCAACCTTCAAATA
AAACAAATTTGAAAGTTTTAGCTCAATAATTTGGGGACATTTTACTTAAATTACAAAAGA
ACATAATTATGATTTTATGATCCGATATTAGTGGTAGGTTTATTTCCCCCTTACTGGCAT
TAAAT
Sequence 5874
CCCTTAGCGTGGTCGCGGCCGAGGTNCCTTTCTATATACAGATTTTAAAATAGAAGTTTT
TTTAATATTGAAAACAATCCAGATTTGATGGAAGACACAATCTGCAGATTCATAATGAAC
CTAAATCCATGATAAATCTATAGCTAGACATATAATAAAAACTGCGTATCTCCAAAGTAA
AAGATATTATCTTAGAACAGCTCAAGAGATGTCAGTTCTAAATCTACAGCTCTAAGGACA
TAATTTCAGAAGGTATAAAGAATTCTCCTAGAAGGAACATCTGACACACAAGAAAAAAGG
TAAGCCCCCCCATGTCCCATCAAAAAAATAAACATTGACTATATAAAATACTAATAATAT
CCAATTTGGAGATTTAATAAAGAACTTGTGGAATTTAATTAGAATTAATGTTATTTCAAT
ACCTTTGTGTTGTTTGGAAAGAGGGGTAGCATTTTTAGATGTTTAANGATAATCAAAAGG
ACTTGTACATTCACATTCCAAATCAGTNAAGGGAAAATATATGATTAAATAGAAAACCCA
ACTGATCCCCAAAGATAGGAGGAGAGATAAAGGNGGGAAAGAAGCCCACNTNGGAAAAGA
AATTTTTTAAAAATAGGATGGCAAAAATA
Sequence 5875
CCCTTAGCGTGGTCGCGGCCGAGGTACCATATATAAATGCAGTATGACGAAAAGTTATCA
ATAAAAAATATGGAAATAGAGTCAACATTTGTGTAGACTACCTTTACTAATATCTAATCA
GGAATGATCACTGAATATTATCTTGAGCCAGAAAGATCTTTTTAAAAATTCTTTGTCAAT
CTATTGCCAAGAAGTCCATTTCCACAGCTCTTTAACTTTAATAAACTATTTTTGGCAATG
GGAAAAAAGAAAATGGAAAAAGAAATCAAGTGGAAATTATCATAACAAAATAAAAGTGAC
ACAATGAGAAAGAATCTTAAAAATTAATCCCCCACCCTGATATTTTGGGGGAAAAACACT
CAATTTTTCTATCATATATATTTTTCTTTTCTCTCTCTCCTCTGNGCGTGTGTGTGTATG
TGTGTGTGTCTGTGTGTGTGTGCATTTTCCATACTACCAATGGGAGGCTGAAAGCAATGA
AAGACAAAACATTGTAAAGCATTTTTAAATATTCAAAATAAAATACAAAATAAATGTACC
TGCCCCGGG
Sequence 5876
CCCTTAGCGTGGTCGCGGCCGAGGTACAACAGTCCTGTTTGTGCTAAGATTCTTTCAAAT
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TTTTAAAGNTGNCANTGGTTTCTGCTTGAAAATTGATTCTTCTTTTACAAACCTCCTAAA
AACTTATTTTCTACCTTAAATTGAAAATTCACCTAAGTCACAGCACTTATGTTTAAATAA
GGACCCTCTGTTGCTCATTTTTTGACATTTTTGAAATCCAGAGTGACTCTGTTTTTCTTA
TGCTTATTAAGGCTATTATTACTATAATTATTGGGATAATAAATT
Sequence 5877
CANCTTTCGAGCGGCCCGCCCGGGCAGGTACCCCAGAATGTATTGACAAGCTGCTCCGTC
CCAGACTAATGGGGCAGGGACTTTCCCATTAAGCTTAGTGCAGGCCAAGAGCAGTGGTGC
CCTCTCAAGGCAGGCCGATGCTGAAGAGGCCCAGGTGACAGCGGGATATGTCAACCTGTG
TCCATAATCTATGGTAAGTATGTTCTTACTTAACTCCTTAATTAGGCAAGTCCCTTCCAG
GGGGAAGAATGAATGAGGAGACAGAAGGAAGCCAGGAGATGACGTATGTCCTCTTTCAAG
GAAGAAAACTTCTGTAATGGAGAATAAGTCTACTTCAATCAATAATTAAAAATTGGTCAT
ATTTATTAGAAGCAAATGGTGAGAGGGGAGACTTTGAGGTTTTCATTTTACCTGGACGAA
CAATT

TABLE 1A

513/599

Sequence 5878

CCCTTAGCGTGGTCGCGGCCGAGGTACGACCTGGACGGAAATGGCTATATCAGCAAGGCA
GAGATGCTAGAGATCGTGCAGGCAATCTATAAGATGGTTTCCTCTGTAATGAAAATGCCT
GAAGATGAGTCAACCCCAGAGAAAAGAACAGAAAAGATCTTCCGCCAGATGGACACCAAT
AGAGACGGAAAACTCTCCCTGGAAGAGTTCATCCGAGGAGCCAAAAGCGACCCGTCCATT
GTGCGCCTCCTGCAGTGCGACCCGAGCAGTGCCGGCCAGTTCTGAGCCCTGCGCCCACCA
ATCGAATTGTAGAGCTGCTTGTGTTCCCTTTTGATTCTTCTTTTTAACAATTTTTTTTTT
TTTTGCCAAACAATATCAATGGTGATGCCGTCCCCTGTGCGGTCTGATGCGCCTTCTCCG
TGACGCCTTCAGCTTCTTTTGTCCGTGGATGCTTCGTGGGAATGCCCANAGCCCCAATGT
GCTTTGTGGAGAGCATGGACAGACTTCGGGGGGGTCATTGGTTGATGAATTTTAATCGTA
CTATAATTTTTTTTTATTCTAAAGGCTCTGNTCTTAAAACGTAAAGANTCNGGGGGTTGG
GGCCAAA

Sequence 5879

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGCTAGGACCATGCAGGATGTGGGCA
AACAAGAGGAGAAGGCTGCCTCTCATGTTCCTCCCCCTCGGTCCCCACGCTTAGGGAGAT
GTGGGGCTGGCGATGGGAAAGCTGTATGGCAACGACTTCAGCCAGACCACCATCTCACGA
TTTGAGGCCCTCAACCTGAGCTTCAAGAACATGTGCAAGCTCAAGCCCCTGCTGGAGAAG
TGGCTGAATGATGCAGAGTCCTCTCCGTCAGACCCCTCAGTGAGCACGCCCAGCTCCTAC
CCC

Sequence 5880

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTGGAGAGCTCGGTG
GACAAATCAAAGCCCTGGAGTAGGTCCATCGAGGACCTGCACAGAGGGAGCAACCTGCCT
CACCTGTGGGCAACAGTGTCTCCCGCTCTGGAAGACATTCTGCACTGCGATATAATACAT
TGCCAAGCAGAAGAACTCTGAAAAATTCAAGATTAGTGAGTAAGAAAGATGATGTGCATG
TCTGTATCATGTGTTTACGTGCCATCATGAATTATCAGTATNGTTTCAACATGGCATGTC
TCATCACACGCTGCAATGAGATTGCCTAACCTGAACAACAAGAATCCCAGAACA

Sequence 5881

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGT
AAAGATAGGGGTATCACTATGTTGCCCAGGCTGGTCTCAAACTCCAGGCCTCANCATCCC
AAAGTGTTAGGATTACAGGCATGAGCCACCATGACTGGCACTAATTTTATTATTACATAC
CTAGGTATGATTATATTTGTTTATTCTATTTAAAGTTCACTGANTTTCTTGGATCTGAAA
GTTTATGGTTATCATCAAATTTGGAAAATTTATAATCACTGTTTCTTTTTNTTTTTTAAN
GAAATTGCCCAAACTNNTCTTAAACTCCTATACTCAAAAAATCCTTTNATTTNAACCTNT
NAAAATNCTGGNATTACAAGCATTAAGCANAAAAATCNTTTTAACCCAAAAATTCNAATC
CAACCTAANCAACATNNCAAAAACTNCCATTTTTAAANAAAAGATTAAAAAANAAANACN
NATTNCCNATAAACCTTNAAAATTTCTTAACTTCATTCAANAATCANAAAAACATTTTAA
AACAAAATNCTATTTCTNAATATTATACTTNCCAAATNTTTTAAAAATTANTNACCCCCC
ANNCCTTTTTTAAATNTNAAAAAAAANCCTTCTTTACCCTTTNAANAAAA

Sequence 5882

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAGTGAAACCCCGTCTCTACTAAAAAAT
ACAAAAAATTAGCCAGGCGTGGTGGCGGCCGCCTGTAGTGCAGCTACTCCCGAAGCTGAA
GGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGTAGTGAGCTGAGATTGCGCCACT
GCACTCCAACCTGGGCGACAGAGTGAGACTCCGTCCCAAAAAAAAAAAAAAAAAAAAAAA
ANGTACGCGGGGATGTGTGTAGTCGGGTATGAGAACGATTGCAAGCAAAAGCAGCTGAGG
GACGCTGTCCAAGGAGTAGGCTCAGTANCACGAACTGCAAATACTTGAGAAGGGAAAAGT
TCAACCTCGTGCTGGAAAGTGGTTTAACATGCTGGAACTGGNTTTCTGCTTGGTAGCCCT
ACAACTTTGGCCCAACTACTTGGNCTNTGGGACTTAAATTCCTCCTTT

Sequence 5883

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAGGTAGCATTTTACCCCACTTTCCTCTGTC
CAAAGCGACATACAAGTAACGGGCCTGCTTCGTGCTGCATTAGAACAGGCATAAAAAGCA
AATCATTTACTTTCCGGAAACAGAGTCCAACTGCACAGAGCATTCGCGGTTATTCCCTTG

TABLE 1A
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TTCTATCATTTTCTACCACCCAACAACATTCAGCAAAACGAGTTAATAATAGTTACTGGT
GTTTGAGGAAGGGTAAAAAAATAAAATAAAATAAAATAAAACTAAAGAACACACATGGCA
GAGATCGATATTACTGCAAAAGCAGGTGAATGCGGGAACATCCTTGGCTTGCCAGGCTTT
ATGTGAAGCTTGCACTGCAAGTTAAAAAACAAAACAAAAAAGTTAGAAATAATAATAAAT
TAAAAAGAAAGGAAAATTAGGAGCGACAGCACCAGCATTCAAGTGATGGTGAATGCTCAT
GCAATGATTATGGAATTGACAGAAATTAAAACCAAAAATTTGAGAAGGCTACTCTACATG
ACAAGCCAAAGCAAAATTT

Sequence 5884
CCCTTGGCCGCCCGGGCAGGTACGCGGGGAATAACATTCGGAAATAAACATTCAGAAGAT
AAGCCCAGTATATGTAAGAATCTAATAAGATAAATATATTTCAAATTAATAGGGAAATTA
TAGTTATTCTACATTTACAGAAGATTTTGGAAGAAGGTGCTGGCTATTTGTTATGGGGAA
AGGATGGATTAATTGCTGCCCCATATTTAAGTATGTTCTTTTTTCCTTTTTTGTAATGGC
AGTTTGTCAGTGTGAAATAAAATGTTCTTTTTTAATTAAAATCTAAATTAAAAATTAAAC
ATGGAGACAAAAGGAAAATAGGCTGGCATTTTTACAGTGTCAGGGGTGGGTTAGCCAAAA
GACATGATATCAGAAGCAGAAAATAAAGTGGATCCCGTTTGGCTAAATAGAAACCAAAAC
ATATAGCAGAGACTTGTAAATAAA

Sequence 5885
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTTTTTTNTTTTTTTTTTN
NNTNTTTATTGTGGTANNTNNTNAAAANCTTAAANTATATAAACANGACNATANGTTATA
NNGANNTTTTGACTTAATCANATTNNGGTTTGATAANAACNTNTANTAAGGCTTT

Sequence 5886
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGAAATATACTGGCCTAGCAGAGGCAAAAAA
AAAAAATGAATTTTATTTTACTTGTCACACCTGTCTTATAAACTGGAGTTTTGCTACAAA
AAAAAAAAAAAAAAAAAAAGTACGTACGCTGGATGCAGGCNAAGGANTTTTT

Sequence 5887
CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTNNGCTCTTGCA
TTGAAATTGGTTTTACTGTGCTGAGCTCTGTGCAAAGGAGAAAAGTGAAGTTTGAAATTC
ACTAACACCTGCAGAAAATCTCTTACTGCTCTTTAACACACAAGCACCAGGACTTGACTC
ACATTATTACAACTCAATCCACTTGAACACTAATTGGCCTGCCTGCTTCATGCCAGGTCT
ATAAATAGGTGATCAAAATGATCATCAAAATGAACAGGGAGTGCCAAGGTCCTGANCAGA
GAACGGAATGACAGCAAAGGAAATGAGACCTTGGGTGAGGTGAACCCTGGGTGGACGCTC
AACAAAGGANAAGGGCACCAGGGCTNTGGAGTCCTGAACTACCCAAAGAAAAGCGGAGAA
CAATGATTAGGCACTGAGGACTCAAANAAAGCCAGAGTCCACAGGGAAAGGGGAACAGCC
CCAAGGTCATNTCCCGNACCCCTCTTCCAGGGCAAGCAAGTNCTGTCCCCTGAACCCAAC
TCCAAACCCTGCCAGGTNACAGNACCTTTTTTGTGAACNCTTCCAGTTATGGGGGAAATC
ACAGGACTGGTCACTTCTATTTNTGACCTTNCCTTAAATTGTTTAAAANGTTTTTATTAA
AGTNTNTATTTTTNTTTTATTCAAACCCTNGGTTTTAGNTTTTTAATCTTGGNNTACAAA
AAAAAACCCGGTTGCGGCCACCTGGAACCAATTTAAAAAAA

Sequence 5888
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTNGTTNTNNNNNNGGG
GNCATTGATTTCTGTTCTTTTTATTATTTTCTTTATCTGCTTACATTGTGTTTAATTTGC
TCTTCTCTTTCCAGTTTCTGAAGGTGAAAACTCAGGTCACTGATTTGAGACCTTTCTTTT
TTGTTATAATATAGGATCTTAGNGCTTAAATTTGCCTCCAAAGCATACATTAGTTGCAAC
TCCCTGATTCTGATATATCGGGGTTTTCATTTTCAGCTCAATGAACTTTCCAATTTCTCT
TTTGATTTCTTATTT

Sequence 5889
CCCTTAGCGTGGTCGCGGCCGAGGTACCAGCATGGAATTATAGCACCACCTTGTGGTTAA
CATGCCAGTATTTTACCTTTTGTTAAAACAAGTGATTTCCCATCAAACAGGATAATATTT
TTTCCCTTTTGAAAAACTCAATTTTAAAAAGAAACATTTTTGAAGTTTTCTTATGGAAGA
TAGAAAAAAAGTTAAGTCTCTTTCTACCCTTTCTTTTTTTCTTTATATAGTGCAGATATA

TABLE 1A
515/599

CACACAGAGAAGGGACTTAAAACATTTCTAATCTCCTAGTTTATATACAGTGTGCAAAAT
ATAAGTAAGTATATATTGAAAATATAAAATATTTCATATATGTTATCAGGTGGAAATTTA
GAATCCAAATTTTCTTAAACTTTAATAACTTGTCTAACAACTCTCTAATAGGGACTAAAA
ATCAACTCAATATATCATACATTTACACTTACAAAGAGTCTTTAGACAACATAATTTTTG
GAAAAATAAAGCAAATTCAACTTTATTGGAGTTATTGGACAGATCAGCAAATTGTTATTT
TAAAAAGT

Sequence 5890
CCCTTAGCGTGGTCGCGGCCGAGGTACAATAATAAATACAAGTTAGTAGCTCCAAAAAAC
TACTTTCCCTAAAAAGTCATTTCTGTCGAACAATTTAAGGAGCAAAGCATCCTTAAAATG
AAAATGCACTAATCTTTTTTTACAACCTGCACAATTAAGTATTTCAGAAAAACAAAAACTT
GTGCAAAATGGTAAGAAACGCCCACCTATACAAATTTAATATTAAATCAGATGAGAACAT
GAATTTATAAGTAAAAAACAATTTAATATTAATAATATATAGAGAAATTAAATATTGAAA,
TTTTAACTTTGTATCACTAATAATCTCAGCTTCAGTGAAATAATTTAAAAAAAGCTGTCA
AACACTAATTTCCTAAATAAACTGAAACCTATGAATTGACAGTAAATACTTCAGAATCTC
TAACAATGAAGACCTGCAAAATCAGCCTAATTATTTTCCAGTGTGTGTGTACCTGCCCGG
GCGGCCGCTCGAAAGGGC

Sequence 5891
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTNANAATTTATTAACNCTTCTTTANTACAGT
GGAACANTTNTGCCCATGGGTCCCAGAACATTGGGACNATGGAGNCTGGATGNATGGGAA
AGAATTGNCAGAGATTTNANNANGGCGCNTAACTGAAGGAGCCAAAATGNCATTNNNTGN
NTTGGTAAAGAGTGGTGTGTTGGANATAGGCACGCGTCTGNGAGCCATTGCTAAANAGAT
GNTGANGCNGAGGTCATGTGNGGGAGAGGCAAGGNGACTATNNAAAAACTNACTTCACAN
TCTTNATGTGAGGGACAGCGANCCTACTGGAACTTAAAGAACAAGAAN

Sequence 5892
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTAGACATGCCAGCACAGAAGGTGTGTTCAT
TCAGTATGGGCTGCACCCCTACAGGGCTCTTCGGTGTCTTCTTTTCGGGGACTGTGCTGC
CTTCATAATGCCTTATGCATTGGTCTTGGTCAGCCACAGGCAGCATGACATACTTCANAT
GGTCAGTAAATTTAAAATTGGCATTTCNCCCCCANCCANAAACATAACCCACACCCCCTA
CTTCTGCATAATCCTTTGAAAGTAGGCAAATGGGCATCACTCTCTCATTAACAAACACCT
TCTGTTTGAATTTGATNAGCTCAATATCTACCTGGGANTATTTAGGGTGTAAAAACAACC
TTCTCAATCTCTACAAACTNCTTTTTCCCCACATAAAAATGTTAAAATAAGGGCAATGTC
TTTCACTTNTTACATTTTCTNAATNGTTCAANAAAAAAATTTTTAACCNTNATCAACAAC
CATTNTTCATTAATCAACNTTNCACCTTTNGTTNAAATTATTGTTNGNAAACCATCTTTA
ACCTTCCAAAAAAAAACTTCCTTTAACATTCAAANATNCCACCCAAAAATCCCCTNCACT
TNATTTCCCAAATTC

Sequence 5893
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACAGGCTGTGATACATGTGGCGATNGATCTTC
TTAGATTCACGGCATNNTCTGATCATCCGGCGCATAATCCCATCNGCTCATCCATGNGAC
CTTCTCTGGCATTCGGGCATTGGCTGTACAATGGGGACGCCTCANACCCTTGCCACTCTC
TTCAGAAATCATCTCTGTTACAGACTGTTCCTGANGNNCCNACATTAAANAACTTTGTGG
AATNCNTTTGCTATGGCGACGGCCACCTGGTCTTCTATTACAGCCTTCTGAGTTCAAAGT
AAAACCAAAGGAAGGCAGGACTCTGCGTGGCTGATCTCNGTTAACTGTCACTCTGATCTT
TGGATAGTCACTTATTCCATTAGGAGATTTATTACCCAGTTTCAGCATGTNGNTCCAGGA
TCCAGAACCTGTCAGTTCACANGATGAAGAGTTCCAAAATACCTNTCCTGGAAGGGGCCN
CATTCNGNGTTTCATTACAAGCAAAATTTCCATNGGCTTTGTGGGCAGCTGGAATGGGAA

Sequence 5894
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTCTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTNTTNGAAAAAANAAAAATTTTTTNNNNNGNAAAAAAAAAAAA
NTTTTTTNNAAAAAACNNNTTTNAAAAAANTTNNNNNAAANNTTTTNCANTTCTNCCTNG
GNNNGAANNNCNTTNNGGGGAANTTCCNNCNNNCTGGGGGGNNTTTTTNTNNGANNCAAA

TABLE 1A
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NTNNGCNNAAATTTGGGNAAAAAAAGGGAAAAANTNTTTCCTNGNGAAAAATNTTTTCCC
CNAAAAATTNCAAAAAAAAATAAAGCCGNAAAANAAAANNTTAAAACCNNGGGGCCCTNA
NGNGGGGGCCCNNCCCNANTTANTTGGGGGNGGNCCNNATTCCCCCTTTTTAAAAAAAAA
AANCTTTTTNGCNNNTTTTTTTNAANNANTTCNCCAACCCCCGGGGNGGNGGNGGGTTTT
TTNTNTTTGGGGNCNTTTTTTCCTTTTTNTNNNAAANAAAAANNNTTANCNNGGGNNNNT
TNGGGNNGGGGGNAGNGGGTTTTTATTTTCNTAAAANGGGGGTTTCTGTTTTTTCCCAAA
AATATGGGGGGTTTCCCCAGNAAAAAAATTTNTTNAAAAAANGCCCCANAAAAAGGCNNA
AACCCTNAAAAANGCCCTTTTTTTTG

Sequence 5895
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATTTAAAATAACTAA
AAGAATATAACTGGATTGTTTGTAACACAAATGATAAACGCTTGAGGTAATGGATCGATA
TTTACCCTGATGTAATTATTCACATTGCACCGTCTGTATTCAAAATACCCCATCTAACTC
ATAAATATTTATATCTACTATCTACACAAAAAATTAAAAATTAAAAAAATTTTTGCATGA
TGATCTTAACTGAATTTTTCAATAATAAAACATTGTCTGTTTTCATTAAGTTCAATTTAG
CAATTTCAATTATGTTTAATTATTTTGCATCCTGAATAAAAAATCTTCTTATACTGCAAG
ATTTTGAAGGCAATCTAGACTTACTTCTAGAATTGGTATGTTCTACCTGTATAATCAGGC
TACAATTCATGTCCAATTAATTTTCATATGTAAAGGTGAGTTATATTTTTCATGAAGTGG
TTCAGTTTTTCAGCCCCACTTAAAAAAATGTAGAAATGGTTCTTGCTCANGTTAAACCGG
ACCTGCTTTTTTTTAA

Sequence 5896
GCCGTGNGNNGGGGTTTTNNNCNAAATTCGCCNTTTCGAGCGGCCGCCCGGGCAGGTNCT
TTANAGCCACAAAGTCTAANACGATGCCTTAAATNCAAGAAGGCTGAGGGACTCCTNAGG
TGANCTGATGCCAGAATAGGCAGAATGAAAAAAAATGAACTCGAAGACATGAAGAACAAC
ACACAACAGCCACGGTTTGGCAAGAGACCAACCTCAGNTCANACTTTCCATCTGAGCACA
GCCGTTTGGNTATGAGCTTTTTACTGAATTTTATAGCAACTCTGATTTCTTCCTTTAAAT
GATTGGAGGCTTTTTAAAGATCTTATGGGGCTCAAATACTAACTTCATAAATGGCCTTTT
GAATACAGCAGCAAATAATCTCTCAGCTGATATTTCAATTTACTAAGGGAAGCACAAATT
AAAACATTCCTGCTACACAGTCATGGTCTGGCCACACACTGGGGTGAATACTGGCCCTGG
TGAACAACTGTAGTGCCACAAGTTAGAAGTNCTATGTNAACACATTCAGCAAACCTTTTG
GGAGCAGCAACATTATGAATCTTTTCTTTTTTTGAGAACNGAGTNCTGCTTTGTCANCCA
AGCTGGAGTGCAATNGTGCAATNTNAATTACTGGAGCCTTCACCTCCANGGTCAAGCTTT
TTTCTGGCTTAANCCTCCAAGTAGGTTGGGCTTCANGGACACCCCCNCACCCCCGGGGTA
CTTTTTGNNTTTTTAGGNGAGACACTTCCTCNAAAACCAAAAANCCNAANNCANGGTTTN
GGACCCTTAANTTAAACTACTTNTTTNACCTTAATTTTTTTTTTA

Sequence 5897
CCCTTAGCGTGGTCGCGGNCGAGGTACGTATGTATAAAAACCGTGCCCTTGTTCACTGCC
AACACAACATCTGGGTGGACATGAACTCATTACAACAAATCTTATGTGGATGTTGTAAGA
AGTCACTCAATGTCTGTGGATTTAATAAGTCACTTCACACCACAGAAAATATTTAATAAA
TCCAAAAAAAAGGAAAGAAGAATATNACCGACAGAAGAGCTTCTGTCTCAGTTCTCTGAAA
CTGAGTCCCCCATAGGAAACTGGTCCCAAAGTTCTCGAGGGGTCATTGAAGAAACTTCGG
TTTGCTAATTTTT

Sequence 5898
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGTTCTCAAGGGAATCTTCAGCTTAGGTGG
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TCCATTAGTAGAAAGCCTTCCTAAAAAACAAAATTCCTGGCCAGGCATGGGTTCACGTCT
GTAATCTCAGCACTCTGGGAGGCCGAGGCGGGAAGATCACTTGATGTCAGGAGTCGAGGC
GGGAAGATCACTTGACATCAGGAGTTCGAGACTGGCCCGGCCAACATGGTGAAACCCCAT
CTCCACTAAAAATACAAAAATTAGCCTGGTGTGGTGGTGGGCACCTATAATCCCAGCGAC
TTGGGAGGCTAAGGCAGGAGAATTTCTTGAACCCAGGAGGCAGAGGTTGCAAGTGACCAG
CAAGGTTGCGCCATTGCACCCCACCTGGGCGATAAGAGTGAAAACTCCATCTCAAAAAAA
AAAAAAAAAATTNCTTTGGGAAGGCCTTCTACATAAAAATCTTTAACATGAAACTGGGAA

TABLE 1A
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AAAA
Sequence 5899
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTAATGGAATACTAAGTCCCTCTG
TAGTTTATGAACCAAGCTATTCCTAGGCCTGAGTTTTATTTTGTTGACACAGAAATAAAT
TNNAAGGCCCAANNCNTGGTGGCATTGTGCCTTGTAGTCCTAGTTGCTGAGGTAAGAGGA
TTGCTTGAGCCCAGGAGTTCAAGGCTGCAGCAAGCTTTGATTGCGCCACTGCACTCCAGC
CTTGGCGACAGACTAAGACGCTGTCCCAAAAAAAAAAAAACGACTATANAAAAAACAAAN
ACAGAAAAAATAAACTAAGGCAATGACAGTCCCTGGCAAATG
Sequence 5900
CCCTTAGCGTGGTCGCGGCCGAGGTACAACTAAAATTTTATTAGAAATCGCTCAGCTTAC
ACACTCCAATCAGGAAGTTATTTAAATCACCTCAGATAAAACCTTTGTGACCTAACCTAA
TACANTCCTTATTGCCGGNATCATGGAATTACTTTTCAGGAAAAAAGGAAAATCCATTTT
TCCAAATTATGGTTCAAANGGGACCAATAAGTTAATCCTTAATTGNTGGAAAATAAAAAA
AATGGTGGGTGGCCTTTTANANNTGGGTTCTTCAACCTTGGTTAAANGGGNAAATAAAAA
AAAAATAAATTTCCANGTNNCAAGGGGGCCTTTTCTATTAATTTCAAAANTNTTAAGGNA
ACCAATNCCNTNTTTTTTAACCCTTAAAAAANTGGNAAGNAAAAAAANACCCTTANCNAA
TTTTTTTTAAAAAAAAACCCGGTTGGNCCTTTTTTTAAANAAAAACCCANAANANAACCG
GGGGNAAAATTTTAATGNAAAAAAAAAAAAAAGGNAACCCATTAATTNGNCCATTTTCT
TTTTAAAAAGGNAAAACCTT
Sequence 5901
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC
TTTTAAATTCAATACAGATGCTGCTGAATTCATTCCTCAGGAGAAAAAAAATTCTGGTCT
AAATTGTGGGACTCAAAGGAGACTAGACTCTAATAGGATTGGTAGAAGAAATTACAGTTC
ACCACCTCCCTGTCACCTTTCCAGGCAGGTCCCTTATGATGAAATCTCTGCTGTTCATCA
GCATAGTTATCATCCGTCAGGAAGCAAACCTAAGAGTCAGCAGACGTCTTTCCAGTCCTC
TCCTTGTAATAAATCGCCCAAGAGCCATGGCCTTCAGAATCAACCTTGGCAGAAATTGAG
GAATGAGAAGCACCATATCAGAGTCAAGAAAGCACAGAGTCTTGCTGAGCAGACCTCAGA
TACAGCTGGATTAGAGAGCTCGACCAGATCAGAGAGTGGGACAGACCTCAGAGAGCATAG
TCCTTCTGAGAGTGAGAAGGAAGTTGTGGGGTGCAGATCCCAGGGGAGCAAAACCCAAAA
AAGCAACACAGGTTGTATACAGCTATNGGTAGAGGACCAAAAGTTCAAGGGGAAACTCAA
AATGTGAATGGGAGTAACCCGAACAACTTCCAA
Sequence 5902
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTANNTTTTTTTTTTTTTTTT
TTTTTNCCCNNNNNNNAANNTNCNTTTTTTTNGGNNNTNNNNANCCCNTTNTTTTCCCNT
TNTNTAANNGGGAANGTNTNNAANNTTNNTTAAAAAGGGGGGNAAAAAAATTTTTTTAAA
AAAAAAATGGGGGGGGNANGGNTTTTNAAAAAAGGGNAAAAAAAAAAAACCTTNAANTCN
AAAAANTTTTTTTTTTTT
Sequence 5903
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGACTGAAGCCTTAAGCACTGTTGCGCCT
CCATGTGCTTTGGATCAGCAACCCCAGTGGTGTTCTACCAGAGCATTGTGGGAAAGCAGA
TGTATAGTCAGGTCCCAACAGCAAATTGTTGGGTGTGAGAGTTCTAAAGTATAGGGGTGA
GGGAAGAGAAGGATATGAACTCCTCTGACCTTAAGCCAGCATTCATTCAACTTTTATGTC
TACTTAACAAGAGAACCTGNAGAAAACTACCGTATTCAANAGATTAATCAAAATCAAGTG
TTTTAGCCAGGCGATGACAGAGAAGCACCATTCCTCACCCTTNCATTCTTGNAATNTCTG
TAATAAATTTCAAGTGCGTCAAGGATGGATGAACCCAAGATCCAGTGAATGATTCANCTG
TTCCAAGCCTTTACATTTTTCAATCATTCATCATCCAATTCTTAATTCAGTGTTAACCTT
NTTGCACTTATTGGNGGTTAAATTTTATGTAAAACCAAGTTTAATGTTTTTTTTTTTTAA
ANATGGTGCCCTATGGTAAATAAANGTTTNNAACACCTGGGCTNTTTTTNTTNTAANAGGG
GGAGGGNTTTTGGTTTTTAAGTTNGNTTCNTACTGAATAATATCCCTTTTNTTGAGCCTN
TNAAAANTGGAATTATTTAATTAAAAAA

TABLE 1A

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Sequence 5904

CCCTTAGCGTGGTCGCGGCCCGAGGTACAATATGTTTTGACATACATATATATTGTGAAA
TGATTGCCACAATCCAGCTAATTAACATATCCATCCCTTATATAGGTATTGAAAAATTAA
ACAAAATTAATTAATCTTTAGTCAGACTAAAAAAACATGAGTGAAGATCTAAATAAAATT
GGAAATGACAAGTTAATAGAACTGATACTGCAGAAATTTAAAGGACATTAGTGGCTACTA
TGAGGAACTATTAATATATGCTAACAAACTGGAAAATCTAGAATAAATGGAAACATTCTG
AGATACTTACAACCTACCAAAATTGAACCGAGAAGAAATTCAAATACTGAATAGACCAAT
AACAAGTNACAAGATCAAAGCCGTAAAAAAAAAANGCTTCCAGTTAAAAAATNAAAATTAA
AATTAAAAAATTAAAGCCTGGGCCTGATGGCTTCCTGNTGAGTTCTCCCAACATTAAACC
AGGAAATTATTCCNAGTTTACTCAACCATTTCCAAAAATAAANGAGAANGGGATACCTTN
AAACTTATNTATGANGGCCATTTTGGCCTTATTCCCAAACCCAAGGCCCCTTNAAAAAAN

Sequence 5905

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCCTATTTA
ATAGTTATTTNATTNATATTCTAATCTTTATTATTNACTTCATTATGCTAACTTTGGGTT
TAGTTAGTTTCTCTTTTTCTAATTGTTNATTTGNAAAGTTAGGTTGTTCGAGTTANATCT
TTCTTATTTTTTAATGTAGGTATTTATCACTGTAACATTTCCCTNTTAGCACTTNTTTTA
TTGAATCCTGTAAGTTTTGTTGAGTTGTATGTTCATTTTTGTTTGNCTCAANATATTTTN
AAAATTCCCTTTTGATTTCTTCTTTTACCCAATGGTTGTTTAAGCATGTGTTGTTTAGTT
TCTGCATTTTTGAAAATGTTCCTGTTTTCTTTGNTATNGACTTTNAATTT

Sequence 5906

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGTGTCAGAGTATGCACGGCGCTTTGGTGTT
CCGGTCATTGCTGATGGAGGAATCCAAAATGTGGGTCATATTGCGAAAGCCTTGGCCCTT
GGGGCCTCCACAGTCATGATGGGCTCTCTCCTGGCTGCCACCACTGAGGCCCCTGGTGAA
TACTTCTTTTCCGATGGGATCCGGCTAAAGAAATATCGCGGTATGGGTTCTCTCGATGCC
ATGGACAAGCACCTCAGCAGCCAGAACAGATATTTCAGTGAAGCTGACAAAATCAAAGTG
GCCCAGGGAGTGTCTGGTGCTGTGCAGGACAAAGGGTCAATCCACAAATTTGTCCCTTAC
CTGATTGCTGGCATCCAACACTCATGCCAGGACATTGGTGCCAAGAGCTTGACCCAAGTC
CGAGCCATGATGTACACATTTCACTTTAAACAGAAAATCTTTCTTCAAAGAAATGACTTT
ACTTTCTCTTTGCACTGCCAGCACCGTGAGATACTAACTTTTTTAACTAGGTGGTCTTCT
TCTAAGTCTCTACCGTTAATTAGAAATTTTTTGCTTTTCATAATGTGNAACCTTTAAGCA
GGAAGAAGAAAAATGTTTTTCAGATAGTTTCAAAATACACCNAAAAATGTTTGNAACACA
AAAATTCTTGGGAATCAAACCATAATNCACTTANTGAATATATAAGTTGGGATANNATTT
GTTCTGAAAAATAAATTATTTGAAATTTAACTTTTAAAAAAAAAAAAAAAAAAAAAA

Sequence 5907

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTCTTTCATTG
ATTTCTGNCCTTTTTATTATTTTCTTTATCTGCTTACGTTGGGTTTAATTTGCTCTTCTC
TTTCCAGTTTCTGAAGGGGAAAACTCAGGTCACTGATTTGAGACCTTTCTTTTTTGTTAT
AANATAGGATCTTAGNGCTTAAATTTGCCTCCAAGCATACATTAACTGCAACTCCGTGAT
TCTGATATATCGGGTTTTCATTTTCAGCTCAATGAACTTTCCAATTT

Sequence 5908

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAACAATGGTAATGAGACAAATTATCA
AGAAATTGGAGCTGGGATTCCTTAAAGAAAACAGAGAAGATGCCAGACTCCTTNTGGGGG
CAAAANCTTTTGTTTTTTTNCTTATTGGAACCCCTTAGGANTATTAAAACAANGTTCCTT
NTCAAATCTTAAAACCTCCNTTGGCTTNCTATAATTTTTGGTTTTCCTGGATTTTTTTTT
TAAANCTTNGAAAATAAGGTTNATTTATTTACNAGGGGGGCCTTACCTCNTTTGGGGGAG
TTTTAANAAANTTAANNAAAAAAGGGGTTGCTTTTAANTAACCACCTTCANAGCCAAAAC
NATTTTTTTTGGTTAANCCAANAGNTTAAACCNCCCNCTTAAAAAAGCCNTTTTNTTGNT
NGGGCCCCTAAGGTNCCCCCAATGGGAATTTTCCTCCTTCTTTCCT

Sequence 5909

CCCTTCGAGCGGCCGCCCGGGCAGGTACTGAGCTCCACAAACGTGGCCATGGTTGGTGCG
GAAATGATTCTGAGTGAGCAGGTAGAAGTCTCGCGTCCTGCTGTGTCCAGAGTTGGTTCC

TABLE 1A
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TTCCAGAGGGTTCGTGGTCTCGCTGGCTTCAAGAATGAAGCCGTGGACCTTCACAGTGTG
TGTTACAAGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCCTTCAGATGTGTCTTGGAGT
TTCTCCCTTCTGGTGGGTTTGGNGGTGTCGCTTGACTTTCAAAGAATTGAAGCCCGCAAG
ACTGTCCGTGGGTTGAATCCNTTGGTANCCTC
Sequence 5910
CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAACAGACACCAGAGGGTGCAAGAGACTGT
ANACTCCTGAAAAAGAAACCAGAAAACTTTGTCTGGTTGTGAAATTACACACATAGGCTC
AGAAAAAATTCATCTCTGTAAAAGGTTTGAGAGACCGCCAGAATCTCTAGCTGGGCTGAT
TGGTGAAGATCTTTTTCCATCCAAAACCAGTCTGTAAAGACTGGAAGAGGTGACCGTTTA
TTCAAATACAAAAATTACAACAAAATATAAGGCACACAAACAGGGAAAATATGGTCCAAT
CAGAAGAACAAAATAACTGTCCGTAAACTGACCCAAAAGAAATGGAGATCTATGAATTAC
CTGACAAATAGTTTAAAAGGAACATTTTAAATTAGTGCACTACAAGAAAAACATATACAA
TGAAACTGTGAATAAAATGAGAATATCAATTAAGAGATGGGAAACTGTAAAGATCCAAAC
AGGAATTCTAAATAACTAAACAGGAATTCTGAAGCTGAAGAATCAGTNACTGATTTGAGA
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Sequence 5911
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CCCAACTAAACAATATTTAGATCAAATACACTGACCTGCCTCCTATGTAGATCAGCTAGC
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AAAATGAAA
Sequence 5912
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CATAGTTTCTCTCTATCTTGGTGCAGGGATTTTAAATCTTATTCAAAACAGTTCCTCTTC
ATTTCTAGATTTTTGTAAGTATAAAATATTTTAAAACAAAGGTATGTCCGTCCTTAGCTA
GAGAACTATTCTTCCACTGACTCCTGGAAGAGAAAAAAAAAGATTCCCATTTCTTCCTCT
ACCTCAAAAACACAAAGCAAACCCAAACAATCCAATTCCTAATGTAAGTGTCACATAGAA
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GTTATTTACATTATTGAGAAAATCTATTTAACAGCCTAAAATCATNCTAAGGGCTTNCAT
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CATCAATCCTNGCTTCCTCCTN
Sequence 5913
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Sequence 5914

TABLE 1A
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ANTTGACNCCNCCAAATTTTTNTTNNNTTAAAAAAAAAAAATTTTTTCNNNCCCNAAAAA
AANNNTCNNANCAAANTTTNCCNTNANTTAAAAAAAAAA
Sequence 5915
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Sequence 5916
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AATTGGCCAAAAAAA
Sequence 5917
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TAAAAATAAAGTTCAGCCCGTATTTCCCTTCCCCTCTATTTTTTTGAGGAAGTTCACCGT
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Sequence 5918
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ACTGGGATCTTTCTCAGATATTTGGAACTCACTCTACACAGACACACAGACACACACACA
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Sequence 5919
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CCCTCACCTCATCACTTCCCTGAGGCCTCACCTTCTAATACTATCACCTTGGTGATAAGA
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TCTGCAAATGGCAAGATTTTCTTCCTTTTTAAGGCTGAGTAATAATTCATTGCATGTATA
GACCACATTTTCTTTATGCATTCATTATTAGTGAGAGTTCTTATTACAAATGGCGAAGTG
GGTTTTTAATATTGATTTAATTTTTGTTATTAAAAACATTTTTAGATGGTTAGATTCCTT

TABLE 1A
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TTTAGAATAAATATACTTCATTAGTTAAGGCAGTTTTAACTTCACAGCAGAATTAAGAAG
TCCTGCCCG
Sequence 5920
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Sequence 5921
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Sequence 5922
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Sequence 5923
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GAAAGATTATATTAATGCTCATAGCCATACCATGNCTGAATATGGGAG
Sequence 5924
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AANATNTTTTAGAGGGCTG
Sequence 5925
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CTGTTTCAGAGGAGGGGGAGGAGGTAGCAGATGTCAAGGGATTTCCATTTCTCTTTCGAT
GCCGACATACTTCAGGGCATCAGCCTGGCTGTATCTGTAATCAAAAAACAGCTCTTCGCC
AGTCTGGATGGCTCTCTTGGCAAAAATACCTATCCTGTGATCACCGTTAACCATCATAAC
TGCAAAGAGACACACTGGTGTCAGTGAGCATGAAGACGGGCCACGGGGGGTTAACTGACT
TGTTCACATAACAAACAACTATCCCAGAAGTATTCAAGTCCATCATCACAGGACTGAAAA
GG

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Sequence 5926
CCCTTAGCGTGGTCGCGGCCCGAGGTACAAGTGACGAGGAAGATTCTGTTTTGGGTATAG
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TGAAGGCTACAAGTGATGAGAAAGATTCTGTTTTGAATATAACCAGAGGAAAAAAGGATG
GAGAAAAAACTAGGACAGTGTCTTCTCGGAAAAAACCAGCCTTGAAGTGTCTTCTCAGAA
ACAACCAGCATTGAAGGCTATCTGTGACAAGGAAGATTCTGTTCCGAATATGGCCACGGA
AAAAAAGGATGAACAAATATCTGGGACAATGTCTTCTCAGAAACAACCAGCCTTGAAGGC
TACAAGTGACAAGAAAGATTCTGTTTCGAATATACCCACAGAAATAAAGGATGGACAACA
ATCTGGAACAGTGTCTTCTCAGAAACAACCCGGCCTGGAAGGCTACAAGTGTCAAGAAAG
ATTCTGTTTCGAATATAGCCCACAGAAATAAAGGGATGGACAAATACGTGGGACAGTGTC
TTCCTCAGAAACAATCGGCCCAGAAGGGTATATTTAAAAA
Sequence 5927
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TGAGCAACATGGCGAAACCCCGTCTGTAATAAAAATACAAAAAAATTAGCTGGGCATGGT
GGCATGTGCCTGTAATCCCAGTTACTGGGGAGGCTGAGGCAGGAGAATCACTTGAACCTG
GGAGATGGAGATTGCAGTGAGCGGAGATTGTGCCACTGCACTCCAGCCAGAGTGACAGAA
CAAGGACTTCATCTTAAAAAATAATAATAAAAATAAACAAATCTGTTTAAATTACTGNCG
CCTTTCAACATTAGACTTTGAGTTTAATAACTACCAATTGAGACTGCTCACAATATTAAC
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CAAGAAAGCCAAAATTCATTATTTGGAACTCTNAATTTCTGGGGNTT
Sequence 5928
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CACTATTTGTGGCTGCCAATGAGCTTATGATACAGACAGGGGAGAGATAGAGAACATATT
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Sequence 5929
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Sequence 5930
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AGCCTTTACACTAGTTGGTTCCCCTTGCCTGGACTACTGCTACCCTA
Sequence 5931

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ATGCAATATTGGTAGAATTTGCTAANAATTCAACCAAGGGATTGCCCGAAGGCATTCGCC
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Sequence 5932
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TTTTTTTNCTTTATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAA
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TATTTNTTTAAGTNTTTTTTTTTTTNGAANTATTTTTGGNACNNTAANTTTTTNAAATTTA
AANNCACTTTTTTNTTTTTNTCANNGTTTTTTTTAATAANCTCCCAATTTTTTTACTGNG
TGTNTGNGTTTNTAAATAATAAANTGTCNTTTANTTTTCTTATTTTNATTTTTTNATTTN
NTTTTTTTTNACAATATCTTGTTAGGNTTTTTTNANNTCCACTTNTTTTTTTTT
Sequence 5933
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TCCTCCTTTGTTCAGTCCAGCAAGGTCCACAGCAAAGTGCTGCCCGAAAACAGGGTCTTG
AGGACATGAACAAAGAAGGTCTGCTGGAGCAGAGGAAGTGAAATTGACCAGATGAACAGG
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Sequence 5934
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Sequence 5935
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Sequence 5936
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TABLE 1A
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GTAAATTCCTGATATTAACAGGCAATAAAATTCGTTAATAAAAACCTAATAACTAGCTAT
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GGTATGGTAAAATTAAAAATACCCATTNAATGNCTGGAGCCCCTNTTCCAATTAGAAAAA
Sequence 5937
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ACTGGGTATCCTCCAANAGGTCCCAAAGCTTTCATTTCATNTTCCACCCTNTTNTGAAAA
GGGGGAGGCA
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GGTGNNAAAAANTATTTTTTTCCCNNNATGAACTATTTTTTTTNTTCAANAAGGGGCTNG
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NTNCTTTTTTTTNATNAAAAAATT
Sequence 5939
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Sequence 5941
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TABLE 1A
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ACTTAGTGATTAAAATCTTGCCCCAGCCAGTNATAAAAATCCAGAATTGTTAGTAACAAT
CTTGAAGAGCTTATTTTAATTAAAGTTAGAAAAATTNNTNCTATCATGGTTAATACTATT
ATTGGCCTCCCAGAAAAAAGATNTTTTAAAAATTTATTTGAAAAGTCATTATTAGGGCTT
TATTCAATGCCTGGACCTGGTTNCTGGAGGGNCTTCTTGAAATTAATTCTTAAAACCAAC
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NAAAAAAAAAAA

Sequence 5942

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TAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCTGCCCACCTCGGCCTCCCAAAGTG
CTGGGATTACAGGCGTGAGCCACCGCGCCTGGCTAGTATATGGTATTTTTCTTTTATGTT
TATATGATGATGAGAAATTTGAAATTATTGTTTGTTTGTCTTTAGTTTTTATTCTTGTTA
ATGGAGAAACCAAACTCCGTGAAATATTTTAAAGAGGCTTCTTCTGAGCCAATATGAGTG
ACCACCATCTTTGGGAAAAACAAGTCTTAAGGAGCCCTGAGAAAGTGTAGCTGATTTCTG
TTTTACATTAATGGGTGGCCAAGTTGTGCCTAAACTCCGAAAGGGGAAGGGGGTATTATG
AAGTTTTTTCTGATCCCTCTTCCCATCATANCCTGAAACTCAGTTTTTGAGGGTTNTCTG
GGGGTCCCTTG

Sequence 5943

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTATAT
TTTNGGGNNAAAAAAAAAAGGGTTTTTTTTTTTNNTTTNTNGNNAAAANNCCCGGGGGNA
AAAAAAAAANNTTTCNATTTCNCCCCCCCNAAANTTTTTTTTTTTNNTTTTATAANAAAA
AAAAAAAAANTTTTTTTNCCCCCCCNAAAAAAAAAANTTTTTNTTNCCNANCNNAAAAAT
TTTCNCCCNNTTTTTTTNAAAAAAAAAAAAAAAANAAATTTTTTTTGNGNCNNAATAAAA
ANGGGGGGGNATATTTCCCCCTTTTTTTAAAANGNGGGGGGAAAAAAAAAAAA

Sequence 5944

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNNNTTTTTTTTNNNTTTTTNNAATTCAA
ACTGTGAACCCAAAAGTATTTGAGGCAGGTTTCAATCAATTAGAAAGTTTATTTTGCCAA
GGTTAAGGATTCACATATGATAAAGCCATTCATATGGTTTGGGGACCTTANAATTTTATT
TTGTTTTAACATTCTCCCTCTTCTGGCCAAGGTTTGCCANANACAGCATCAATGGCCTCC
AAATGTTTATTTTGTTCCATAACATTGCCAGGGCTAAAGGACTGTCTGCCTNAGGTCCAT
CCTGTCCCTCGGNGGGACACTCTGTGGCAGAGGGACTTAANAGTCAAGAGACTTATAGCC
AATTAAATATTCCAGGCCAGACAGGAATGAACATGGACAGGCATTCATTATCCCGTAATT
TTTTTGGTGGTTTAAAGAGCCAACAAACAAAAAGCCGAAGGCGANGGTACNAAACTGAAT
TATATTTAACTTCTGNGTGTTGANCTGCTGCAATCTTTGGGTTTAAGTTACCAGACATTA
AAACAATTCCCTNTTTTAAAGCCTTAACATTGGTTCTGNAAAAANAAA

Sequence 5945

CCCTTAGCGTGGTCGCGGCCGAGGTACGTTGCTCAGCTCCTCCCGCTTCCTCTTGGCGCG
GATGTGCGTCCCCACCCTTTTCTTGATAAATTTGAGGGCCCGTTTGTCCTTGGAGACCTT
CAGTAACTCCATGGCGCGCCGCTCGTACTCGGAGCTGGATGAGGATGAGTCGCAGGCTCC
CTATGACCCCAACGGCAAGCCAGAAAGGTTTTACTACAATGTGGAGTCCTGTGGCTCTCT
GCGTCCTGAAACCATTGTCCTGTCAGCCCTCCAGGATTGAAGAAGAAACTGAGTGATTTA
CAAACTCAATTAAGCCACGAGATCCANAGTGATGTGCTAACCATAAATTAACTGCAGCTT
GCCTGCTTCAGCAAAAACGGAGATTCAGGCCAGCAGCTGGATATGGGGGTCTCTCTTCAA
NACTCTTCTCGTTTCTGAAGAAATCTAAGTCTACTGTTGGTTGAGCTTCTTTGGCAAGAC
ATCAAGTACCT

Sequence 5946

GGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACATCAATATGGNCCT
AACATANAGNGGNCNANTNATATTTTGAAATCAACTCTAGGAAAAGAATGTTTTACTAAA

TABLE 1A
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GNNATTCATGAAAAATAAGTGGTGAATTTAAACCCCAGGGCTATATTATATAGAATTATT
TTTAAATTGAAAAGTTATGTTCACATGTTCCACTCAACAAATAAAATAATTATACCTTTT
GTGAGCCATGAGGTCTGTAATTTATGAGAGACTCATTAAGTTTTATAGATGTGAAGAATC
TAGAGGCAAATTTGCAAACTGCTTATTTAAAAATATTGTAAAAAACAAAACAAAAAGGAA
AAACAATAACTTCCCTAACCGTGCTTAGAAAACTTTCTGGTCACTATGTAGCACAGAAAC
CCAAATACCTTATTAAGCACATGGATATAAGAGGACTTATATTATTTAAAAAAAAAAAGT
ACCTCGGCCGCGACCACGCTAAGGG

Sequence 5947
CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGTAATCACATAAATTCTGCAATCATCTGTT
TATTTAGCTTAACTGTTTTTTTTTATTTGTTGAAGTTGTGTTGTATTTCAAGTCTTTTTC
TTATTGGGTTGACCAGACTTGGTAAAATCTGTAAGAAAAGTTCCATAATTATGGGGAAGA
TTTCTCTGAATTGGCTAAATTCCTGTAGCTGAAAAAAAAAAGAAAANAAAAAAACNCCAG
CAAAAAAAAAAAAAAAAAAAAG

Sequence 5948
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTGTTACATAATTATATAAAATAAAGCTTGT
AAAAGTTCTATTCTATCTACTCTATAAAGTTTATACAGATTGAGCATCCCTAATCTGAAA
ATCCAAAATCCAAAATGCTCCAAGATTTGAAACTTTTGTGGCTCTGATATGACATCAAAA
GTGGAAAATTCCCACCTGACATGTTGCTTTCTGATGATTCAATGTACCTTTCTGCTTAAT
AGTTAGAAATGAGATTATAAAACACTGACATTGATTTTTCTTGTGACTGATTAAATGAGT
CACACTAGTTTATATTCATATCATATATGTATAGCATTCCAGAGTAAAACTCTTAGACAT
GTTTCAAAGGGGAGTGGAACATTTGTTAAAATCCTGGTTCCTCACTGGGAAAGTTGGAAA
GGCCAGAAATTGGAGCTAACAGTGAATCTAAGANGTAGAACTAGACC

Sequence 5949
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCATTCATTTAAAGGCATAAATGTCCAATGGG
GCCATCTTGTGATACATGCACTGTCACAGGAAAAGTTTCCAGGAAAAGTCAAGCCAGGGC
TTCACAGAAGATCAAAAGAAAGAGACAAGGAGAAGCTAAGTGTATTAGTCAGGATTCTCT
AAGGGACAGAACTAATAGAATATATATACACACACAAACACACACACACACACATATATA
TACATATAAATAAAAGGGAGTTTATTAAGGAGTATTAACTCACACAATCACAAGGTCCCA
CAACAGGGCCGGGCCATCTGTAAGCTGAGGAACAAGGAAGCCAGTCTGAATCCCAAAGAT
GACAAACTTGGAGTTCAATGTTCAAGGGCAGGAAGCATCCAACACAGGAGATAGATGTAG
GCTGGGAGGCTAAGCCAGTCAAGACTTTTCACGTTTTTCTGCCTGTTTCATATCCTAGCT
GCAATGGCAGCTGATTAGATNGTGCCCACCCCAGATTAAGGGTGGGTCTTGCCTTTCCCA
GCACACNTGCTCAATGTTTATCTTCTTTGGCAACACCCTTACAGACACACTCANGGATTA
ATATTTTT

Sequence 5950
CCCTTAGCGTGGTCGCGGCTCGAGGTACCAACGGCACAAAAGATGGNGCTTGGCCTTGCC
CANCTCTTTCCCTGCTACTTTCACTGTTGAGCTATATCTTACCTCTACTTNCCNTCANNC
ATTGTNGGACTCTTTCACCATTCTGGATNTAGGAACAGTTACCTATGTGTGAANCTTA

Sequence 5951
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGTTACTCTTACAGATGTCTCAATTAATTT
TAACCTCTATCCCTAATGGTGTTTAAATTTTGGTAAAGAAAAATTCATTTTTTCTTTATT
TTCCAAGAAATGGGTAAGCTATCTTTGTCCCTATGGGAGATGTGGACAGAGAAAACTTTC
TGTCTCTGATGTCTTTTGTGTGAGACAAGATTTTAGGAAATAAATAAGTGGTGCAGGGAA
TTGTGAGATTACATTTCACCTNCTTTTCTGGCTCTCTCTCTTTTATATAATCTTTATCTC
TGCTTCTAACAATCTCCTTATCAGAATTTCTAACATATGTAATGATGAGAGAGAGAAAAA
CTGNCCCACAGGATCAAATTTCATTTCTAATCTGGAGAAACAGGAGTCTAGTTTTCCAAA
CATTTTTATTCTAAAAA

Sequence 5952
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAACAGGTCCATCTGGTTTTCTCATGTTTTC
TCCATTCATTAAAAAAGAAAAATTAAGGTCTTTTATATATTTCCAAAGACAAGAAAAAAA
CTACAGTCTCTATTAGTAAGAATTCATGCTCCATGCATGAGAAGTTTGACACTGTTTTAA

TABLE 1A
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AGGATCCTGTTCCTGCCACTTGTTGTCCCCCAGGGCCAAGTCCTACTGACACCTGTTGGA
ATTTCTTGCACTTAGGAGCGGCTCTCTATGGAGAGAGGTCCACATCAAAATTTAGACGTT
GTCACCTTTTTTGAACTAGATAAAACCAGTAAGGATACAGACAATAATAAAAGGCTTTCC
AACTCAGCAGAATTAANAACTAGCTCTTGGAGTATATACATTTGCACTCCAATATCAACA
CTAGCCTATCCACTTTGAGTCAAAATTTGAAAGGTAAGAATGTAATTATGAAAATGTGCA
CAAAATGTTAAATACTAATGGCAAATAAATATATCTTAATATGTTCTAACAAGCAAACAT
ATATTCAAGATAATCAGCCCTGCTTTATTAAAGAANGAAAAGATCCAAATTGTNTTTGTG
GGGTGGGGCN

Sequence 5953
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCATAGTTAAGATCTGTGATACGAAC
CATAGATATTGTCTGACAAAGCAGAAATCACCAAGTTTCCCCCTTTTGAATTACCACCAA
GAAGTGTTGAAACACCAAATAGATATCATGTTATTTTGGGCATTTGCAGTTTTCTTCCCT
GCTGCATGTAATGTCTCAGAATCAACATTCTTTTAAAATCTAGACTATATTTTGAGGCAA
TGAATTACTTATATTCAACTTAGGCTTGTTTTGACATTCAGTAGAACTTTAAGTTCAATC
TAAAGGCTTCA

Sequence 5954
CCCTTACGAGCGGCCGCCGGNCNNGTACCGCANGGGANANATGAAANATTATAACCAAGC
ATAATATATCAAGGACTAACCCCTATACCTTCTGCATAATGAATTAACTAGAAATAACTT
GTGCAAGGAGAGCCAAAGCTTACACCCCCGAAACCANACGAGCTACCTANGAACAGCTTA
AAGAGCACACCCCGTCTATGTAGCAAAATAGTGGGANGATTNATAGGTAGAGGCGACAAA
CCTACCGAGCCTGGTGATAGCTGGNTGCCAAAATAGAATCTTANTTCAACTTTAAATTTG
CCACAGANCCCTTTAAATCCCTTGGAAATNTNAACTGTTNGTNCCAAAGAGGAAACNGTT
TTTTTGGNCACTATGGANAAAAACCTTGNNATANAAGAAGTAATAAATTTACCNCCCATG
GTNGGCCTTAANAAGCANGCCACCAATTTTNGAANAGCGNTTAAGGCNNAACACCCACTN
CCTTAAAAAATNCCCANNACTTTTAACTNNAACTCCTCAACACCCNAANTGGAACCATTC
TATNACCCTATATGAAGAAACTAATGNTAGTNTTATTTNACATTGAAAAAC

Sequence 5955
CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTGCTTTTTTTTTTTTTTTTTTTTTNGGAG
ACGGAGTCTTGCACTGTACTCCAGCCTGGGTGACAGAGCGAGACTCCTCTNAAAAAAAAA
AAATCCAAATAAAGTCTTCTGTAAAGTATGGACACCTATGCCAAGTAATGACATAGGAAA
AAACTACAGGTTTTATAGTTTTAAGAGATGACAGGATTATAAAAAGCAGGTAAGAATTAG
TAAATTTGGGCCCTTCCTTTGAGATATTATGATTAAGAATCTTTA

Sequence 5956
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTT
TTTTTTTTTTTTTTNTTTCCTTTTTTTTTTTTTTTTTTTTTTTTTTNCCNATTTATCGTTN
TTTATTATNAAANTNATGACCNGGGNGTAAACNTACTTGNGAAAATNTACANCAANTNGG
GGNTTATAACACNTGACCAAANATGACATTAACACNTNCNCTGTTCANATTTTGGGGTTT
ANAGGTCAANAACAAAGATNNCANACAANACTTTTTCTAAACGGGNCCCCTTGCANTNGG
TCCCGAATTNCAAAAATNTCCANTTCNANCTTGGGNCAGNNCGGGAATTTTTANCAAAAA
ANGAAACCNNAGCAAANTNNTTTTTTNAACCNNTTNAGNAAACAAGNTTTTTATNACNCN
TTTTGNNNAGGCCCNCNCCCCNNAAATAACCTTTTANAAAANNAATTTNTNTTTTTTTGG
GTTNAAANAAGGTTTNTAANNGGTGGGCNTATAAAACCNTGGGGNCNAGNACCCCTTTGG
TTTTTGCAAANCCCCCCNAAAAAAAAAANNGGGTTTNCCCCCCCTTTTTTTTNTTAAAAAA
AAAAATNTTTTAGGGNCCNTAAAAANNGGCCCAAAAAAAA

Sequence 5957
CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGAGCAGTTA
ACATTCCTTTATTTTAGTTTCAAGGGCGGNGGANGGGAGAGAGGGANAAAAGATACACGG
AAACTTACAGCAA

Sequence 5958
CCCTTAGCGTGGTCGCGGCCGAGGTACTTAAGAAAAAAACAGTATACCCTATTCCTTTAA
AAGCCAAGGTAAATTTGAAACCTATAATTGATAATTAAAGGTATTCTTCGTAACCCTGTA

TABLE 1A
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ACACTCTAATACCACTTTGTTGTCAAGTGTAGTCAGTGTAAACAAGGGCGTATCCCGAAA
GCACTGAGGCCTTCCTATCAAAAATCCTTAACCCAGTAACCCGCAAGATGGCCCANATGC
ATTTCAATCTGNANTGGCAAGCTGCTTTGCTAATGAAAAAAAAAAAAAAAAGCCTTCTAT
ACCAATTCTAAGNTAATTTTANACTAAANCAAGGGTCTTATTAATAGCCAAAGGGATAAT
TGGAAAATCC

Sequence 5959

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGATTTTGAAGAAAACGAATGTGGAGATTAG
GCCACTGGACTCAGAAATAAAATCCAGAATAATGTAAACCACATTCTGAAGCTGTCACTC
ATATCTGAGTCTCACCTTGTGTTGCAGATAGTCGCCATGTCCTCAGCACAGGAACAGGTG
GCTGTCTTAATGTCATTGATGTGCAGACAGGAATGCTCATCTCCTCCATGACATCAGATG
AGCCCCAGAGGTATAGTTTGTGAGTTACTGGGGGCGAAGACATTTACAGACATGTTCATG
ATCACTTCATTTGGGGCTTACATTGGCCAGTTCAACATATCCTTCCTTCATGATGAAAGA
AAGGACTATTTCTAAATCATTCTTGCAGGTGCTTTGTCTGGGATGGAAATTCCCGTTTTA
TCTGGCAGTCAGTCTGGTGAACTGCTCGTTTGGGACCTCCTTGGAGCAAAAAATCAGTGA
GAGAATACAGGGCCACACAGGTAAGCAGCTACTGCAGTTGCCTTGATCTTTGCTCTCAAG
ATAATGAACTCAAGCCTGCCTTTTNCATCAGGGGAACAATACCTCTTTTTTGGNCCAAAA
AACACCCCATGGTTTTTCATTNTCGTAAAACATGTTCCTGGAGCCTTTTGATTGGCCAAG
TGANTCTGCATTTTGTAGGTACCTCAAGGANTTAAANTTANTTTTAACCAGCCCATTGGG
CCTCCAAAAAGGAAGTCTTTACTTTTATNTTGGNNAATTNAAAACCATNNTNAAGCTATT
ATTTTNTTAA

Sequence 5960

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGGAG
ATGGAGTCTCACTCTGTTGCCAGGCTGGAGTGCAGCGGTGTGATCTTGGCTCACTGCAAC
TTCCGCCCCCTGGGTTCAAGTGATTCTCCTGCCTCAGCCCTCCAAGTAGCTGGGATTACA
GGCATGCACCACCACACCTGGCTAATTTTTGTATCTTTAGTANAGACGGGGTTTCACCAT
GTTGGCCAGGATGGTCTTGAATCTCCTGACCTGGTGATCTTCCTGCCTNAAGCCTTCCAA
AGNGCTGGGAAACAGGGTGTGAACCCACCCGGCCCTGGGCCCTANTGAATTTTTTTTTTT
TAAACCCACNCCATAAATCTAAAGCAAAGGGTATTGCCAAAGATTTNAGCTTGGGGCCAG
GGTCTTGACCCCNACCCTGAGCATCTTATTAGCTTTCCCATCAAGGGGAAT

Sequence 5961

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTATTNCTTTTT
TTTATTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTGGNAAAAACCCCCAAANTTTT
ANNGTTTAATAATGAATNNCNCAACTNNCCAAGGTNCAAAAATNTGAAAANNCCNTTTTT
AAAAAA

Sequence 5962

CCCTTAGCGTGGTCGCGGCCGAGGTACATACCTGTTGGCAAAGATTGGGCAGCAAGCCTT
GTGGACCAAACTGGGGTTACTCTCCAGGAAAGAGCAAATTAGTGGTCACAACATTCAGAT
CTTAGAGCCAGAAGAACAGGACTACAGCAGAGCCTCACTTCAAGACAACTCGGAGGCGCT
GGCTCCTCTGAAACCCAGACGCTGTCAACTCCCTGGGCCCAGGAGTCACAACCGCTTTCG
TGCTCTGGGTTCTTCACTTCTTGTGATCAGCTCCACATATTTTTCTGATGATGTCACCCA
TTCTGACTTCCTACATTTTGAAAGTTGATCTACAAGTAAAATCTTTCGTGAGGCTTAAAA
AAAAGAAGAAAAGAAATAAAAGGTGTGCTATAGGGAGATGGAGAGGAAGAGAAAGGCCCG
TT

Sequence 5963

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGNCTCAAGGCAAANNTATGACTGANTTCA
TCCTNACCTCTGGNGGCCNGNAAAAGNGGGTTATAGAANAACAAGAGGCNTCTAGATCTT
TCACTGGGTTATTTGGAGAGAAACATCTCCTACACGANNGCCAGTTTAACAAGACTGGNC
AAGGAGGGTATCTTATCTANTTCACAGNNNTNAACACATTGNGTCNCNNNANNTGANACA
CNNAAACACTNTANNTGANNNAANATATGTCTTNTGAANCCANCCCTAATGAAATGAANA
TGTGTGATTAACCTGACAGGAACATTAGNGAGAGCAACCGTNTANAGTCTCTGGGAGCAA
CNCATGAACAAACTGAGAATTTTCATNTTANAANATAACAGATANCAATNTGTTTTTAAN

TABLE 1A

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TTGGAAGAAATACATTAACTGNACTCAANAATNTAATGTGTCCANCANANNAATTNGTTG
AAGCAGAAGANAGGGGCTNTCAAAACTTTGGNGAATAGGCCATTGGGAAATCNTGGTNAT
GGGGNGGGGGAAAAANANNAAAANGGATTGGAANATTTTTTAAAGNGGACTTTTGGAGAC
CTTCCTCAAAGGAGGGNTAAATTTTTNNNNTTNCCGGAATGGGGGAAGATTNGAGGGNAA
AAGGGACAGAAAAACTTTTTTNGANGAAATTNTGNTCANNAAAACCTCATTTTTTTTGGC
AAGGGGAATAANAAAATTTTGATCTTAGAAATCCCCCANCATCAGGGGTTNGGANAAAAC
CCAGGG

Sequence 5964

CCCTTAGCGGCCGCCCGGGCAGGTACTTTTAGGCAGCTCACAGAGCTGATCTCAACTTTG
AGCACCATGGGAGGTAAAGACCTCAGGGCAGTTGNCTCTNGTGCAGCTAAAGTGTTTAGA
AAGCCAGAACGAAGTGAAAGGAAGACCCTAGAGTGGGTCAGCTTTCTGCCAAAGATAGAG
AATATAGCTATAGAATGCTCCCANCCTACAGTATAGAGCTGTTGTTGGGAAGTGGCTGCT
CAACCAGTGCCTGTATGCCCTANCCTNTCACACAGTTGGACTACATGACTAGTTCTT

Sequence 5965

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGAGCACCTTGGCGCGCGGAGCTGGCA
CCTTGGCGCTGTTGGTGGCGGCGGAGACAGCTGTGAAGTGTGANGTTCTTTGTNTGCTGG
CAGCTANGGGCGACGAGGCGGGACGTCATGGAAGTGAAGG

Sequence 5966

CCCTTAGCGTGGTCGCGGCCGAGGTACCCATATACTAACCAGTTTGGGGCACATAAATGT
TACAAGGGAGAAAAAAAGATTTAGACTAGCATGTGAATTTCATCAAGCAGAGACACCTTG
GTTAAAAAGCAAAACTTGTGGGGTGGAGAGGAAGGAAAAAAGGAAAACGTAAGAAAAAGG
ACCGGAGTGCTCACTGTTTATCATTATCAGCCCTTTTTTTTGAGACGGAGTCTCGCTCTG
TCACCCAGGCTGGAGTGCAGAGGCACTATCTCGGCTCACTGCAAGCTCCGCCTCCTGGGT
TCACACCATTCTCCTG

Sequence 5967

CCCTTAGCGTGGTCGCGGCCGAGGTACAAACTGTTAAATTTGTCAATAAGTGACAAAAGA
ATTCCACAAAATCATGGAACTCTCAAACTCAAGTAAACCAAAAAATAGTTAACCAAATAA
TGATCTCCGTCAGACAGTGATTTGAATGAGAGATCATATCGTAAGTTTAAAAAGTAAAAT
TCAAATGTAATGTGATTGAAATACCTCTGAGTTTTACATTACTCCTCATCTGTATAATAA
AAGAGAGGATGAGTGTGAAAAAGTTAAGAGACATTTAAAAGGTCATACTGGAAATTTATC
TTTGGA

Sequence 5968

CCCTTCGTGGTCGCGGCCGAGGTACGCGGGTATTGGGAGAATCTGCTGCCAGCTTCAGGC
AGACCTTTCTGTCCTTCGCTGTCAAAGCCAGACTTATAANGAGTANGTGAANGCAAAACC
CTNNAAAATTATTCGAACANNGAAAAAAAAAGTTTTGCCTCTTCNAGCCCTGGACCCTTG
NNNAACTCNGTTTCCCTCACCCTTTNCAATTCACTTNNACCCAATNGTCCCNCTTNGCNT
TATTCCTTCCACAAGCCTTGGCNTAGATGACANNTCTTGGNAGNGNTTGNCCTTGGCNAA
NACCTCNCACTATTANNCACTTTTTCCCAANGACCCNCNNANCCAAAATNTTGTTAGGTT
GGNCCAATTAATTTTGGAAGANCCTTCCCCTTGGCNTTAGTAGGGGGTATTAAAANAC

Sequence 5969

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTAATCATACCAGGCTTCTGATTTTACAATC
CGGGTTTAAGCTGTTTACATTTCCAAAGTAATCAACTTTTGCTCTCCTAAATCCCTCGTA
ATATTCAAAGTAAAACTGATGGAATTTTTTGATAAGTTACTACAAGTTTAGCATCACTGA
TTACCTTCAATGCACTTGCAAGTGAACCACAGCTAATCTGTAAATTAAGAATTCATCTAC
AAATGGAAGCAAGAAAGAAAAAAAGTTGTTTTTCTTAAGCAAAGTTGGAAATAAACAGAA
AATCTTTTTCTTTAAAGGATGGTGGA

Sequence 5970

CCCTTTCTAGCGGCCGCCCGGGCAGGTACTTTTTTCTTATGATGATTGGTGTAGAAATGT
GTGATTTGGGTGGGCTTTTACATCTTGCCTACCATTGCATGAAACATTGGGGTTTCTTCA
AAATGNGTGTNGTTCATAACTTCTTTTGGGGAGGGGGGTTGTTTTCATTCTGTNTATTTT
CTGAGGACTCCTACAGGAGCCAAATTTGTAATTTAAGAGACACTTAATTTTGTTAATCCT

TABLE 1A

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GTCTGGGACACTTAAGTAACATCTAAAGCATTATTGCTTTAGAATGTTCAAATAAAATTT
CCTGACCAAATTGTTTTGTGGAAAATAAGATGTGTTTTGCAATTTGAAGATAATCCTATC
CTGTTCCCAGGAAAGGCNCANAAAGGTANGCGGANATGGCCCCATT
Sequence 5971
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC
ACATTCCATGCTGGGTCATACCTGAGTGCCAGTGGGAATATAATTTGGAAGGAATACGTT
GTTGAAAAACATCCTCTTCAGACAAATATGACCAATGCCTTAGTCATCTATTGGTTATGA
CAATATCCTCTTGAACAAAATTGGTTTCGGGTCTGGGTTCTGGGGTACCAGGATTTTATT
TTCACTGGAAGGGGCTTTGTGTGGTGGGCCAAGAAAACNCCTTACCGCTTCAAATGGATN
CCATGGGACCTGAGAAAATGTCAACATCNAACCCANATGAATGAGAAGCCACCAGTGGAA
GAAAGGGCTTCNANATAGCTTNNTTCGGGATTNGGAAATTCANAAAANGGCAGCCATTGA
NNANTCAATTTTCTTATGAAGACCCCTGAAAAGTCAGAAAATTNCTTGACAAATTGGATT
TTTGGGGGAAAAAAGAAACTGGCAGATTANTGCTTGATGAACACCATTCCCGGAACCNCC
TTCTTTTGGAATGNTTTTCTTTAACCTGAGTAATGCCATCATGGGCAGGGGGGATNCTGG
GCTTGGNCTATGCCCTGGCCACCCCAGGGGACCATNTTTTTTATAATCAATGCTGCTTGC
TTGGGGCAATATTATTCCTTGAATTCAGTCACCTTTTANTAAAAACAGCCAAGGAAGGAG
GGGTCTTTGATTATTAAAAATTAGGAGAAAAGGNTTTTGGATGGC
Sequence 5972
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTNTTTTTNTNNNCTTAT
ATAAAATTATTTTTCTTCAAGCTTTTTTTACCTCANAAAAATCCTCTTTATTTTTACAAC
TTTCTTTACATATTTTTTTATTTCCTGGTTCCATTTACCTTGTTTTATACATAATGTTTA
AATAAGCTTTGAATTANACATAAATTTTTCACTTTTCTTTTTAAAAGGACACACTTCTCT
GTTTTTGTTTTTTT
Sequence 5973
CTCTAGTATGCATAGCTCGAGCGGCCAGCCAGTGTAGATAGGATATCTTGCANAATTCGC
CCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGCANGATGATGGAAGAAAAATTACTNC
ATGCTGA
Sequence 5974
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATAATACACGTAACAT
AAAAAATATGTATTAACTGTTTATGTTATCAGTAAGGTTTCTGGTCAACAGGTTACTAGA
GTTATGTTTTGGAGGAGTCAAAAGTTCTATGCAGATTTTCAACTGCACAGAGTCGATACT
GCTAATCCCCAAGTTGTTTTAGGGTCAAGTCTGTATTCAAATGCATTCGCAGGAGTTGCC
TTTAACATCTACTTAGACTGATTTAACCACCCCTATTTACTTTGCCAAGAATGTAGAGGT
ATATTAAAATCAACCACCAACACTGTTTCTACCAATGTCTTTCTGTTATTCAAATGATTA
TAGTTTTGTCGACTTTTAGTATTTGGCACATGTGTTATCTAGCTTGCATAAAATAATCTT
CACTGCCTTGTTTTAATCATTTTTTATTCTGNATTCGTGTNTTGTTTAACAATAATACTT
TTCTTCTCACCTCTTCTGGGCTAAGGAATAACACATACATATTTGCTAATCTGTTACTTT
CAAGCTTTCTATCCTGCTGTCTTAAGAAACTTCATATGTACCTGCCCGGGCGGCCGGTC
Sequence 5975
CCCTTAGCGTGGTCGCGGCCGAGGTACAATATCATTATTGTGAAGATATGCTATAGCTGA
TGCGAGACTTTGAATGATCCACCTTGNCTATTNTCTTGAGAAATGCCCTAATNTNTNNAN
AATATNTNTGAGTTCTNCANCCTCACAAAGCTNCATCACAAGATACATTTTCTTTG
Sequence 5976
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGCCTGTCTTCATGAGAGCACTGTTGTC
TGCGCCGGGAAATCATCCTCTGACCTGTTCACAAGTCTTCTAGATGAAGATTTTCAGCGG
GTTTGGATCTATTTAAAAAGCGGTAACTGCAAAGAGGCACCTAATCCACTTGATTTGCCT
GTTTTTGAGATTCTGATTATCCTGTTACATGTACCTGCCCNGNCGGCCGCTCAAAAGGGC
Tnnn

TABLE 1A

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Sequence 5977

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTCGAAAATGTGGTGAAGGTCTCAGT
TGTTATTTCAGAAATGAAACCAAAAGAAACACAATAGCCGAATAAGAACAATAGAGAATC
CCTTAAAAGACTAGAAGGTTAAAAGGAGGAAAATTATTAAATTAAAAAGAAAGGAAGAAT
GATCAAAAGCAGCAACCACTGAAGATATGCAGAGCAGATCTAGCATACGGATAATAGGAG
TCACTGAAGAAGGAAACCAAAGCAAGAAAGCAAGCCAACACTTAAAATTATAACTCCAAA
AAA

Sequence 5978

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTGATAAAAGT
ATTTTTGGAATCTAATTTAATGTTCAGGGATCCATTAAGCATTTCAAGGAAGACACTGAC
ATTACTAAATTGTTCAGCAATGCACAGAATTTGAAAATACACTTGAAAAATAGAACTTTG
ATATAAACTTGTAAAATACGTAGGATGTATACCACTGATTAAATAAATTAAAAAACTCCA
TTCCCCTATTCAGTGCTGTGTTGGGTAGAAAAGGGGTAAGTGAACAAACAAGTGGAAAAG
AAAGTTAAGGAAGAACATAGAGAAAAGGATTGTTTTGCGCAGACATCTGGCTTTGCTTCC
CCAAAGCTACTGAGTACAAAATTTATTGCNGTAAAGAGATTAAAACTATTTCTTATGTAA
ACCAAAATCA

Sequence 5979

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTATTAAAGAAAAGTCTTTACTGTTGAGGGC
ACTGGGTCTCTGGAGTAGATTTAGAAGACACATATAGAATAGGGTGTGATTTCTTACAAG
TTTCTTTTTCCAATTTGCTTGAAGTTTCTTTTCCTTCTTTAACTTCTGTTTGAAGCTTTG
ATTCAGCAGCTAACCTGGGAGAGTTAGGGGTGTTTCCACTTCTTTCACTTAAGGCCTCAG
CGTCAGCGGGAGCTCCTATGAGTTTCACACATTTCTTTTCCTTCTTCAGCTGCATATCCA
CGGGCAGA

Sequence 5980

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTAACAATTTGTTTCTGTTTTTTTCTTATT
TGGATATGGCTCAGACATTTAATGAGTATTATTTAATTTAACATAACTTTAAGATTTTAA
ATTACATGAAAATTTATTTGTAAATGCTTACTCTGTTTGCAATTACCTAATTTATTTATT
TTTTAACAATTATACCTTGATTACCTATGAAAATTGAGATACTAGACATAGCTAGTTATT
AGGTTTTTATTAACGAATTTTATTGCCTGTTAATATCAGGAATTTACCTAAGTAAGAACT
TTAAGGTTAAATACATAGGTCAATAAGTCCTATTGTATAAATCCTGTCAATAAGTCAGGA
GACATGGCTGATTTTATTAAAGCAACAATATTAAATTAATCTTATCAAAGGGGTTAAAGA
TTATGTTGNTTTAGGCTTTATCACCTTATTACATTAAAAGATCTAGCAGAGGCATATATA
AAACTGTGTGACCAGTAAACTCAAGTGAGAATGTATGTTGACACTTTTGAAGNATATTTC
TAATTTTATTTTTCAACCATTTTTTAA

Sequence 5981

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATGGGGGTTTCGCCGCGCTAGCCAGGATGGTC
TCGATCTCCTGATCTCGTGATCTGCCCACCTCGACCTCCCAAAGCGCTGGGATGACAGGC
GTGAGCCACCATGCCTGGCCCGTATCTGGATAATTTTAAAAAATTTTTTTGTAGAGACAA
GGTCTCACTATGTTGCCCAGGCTGGTATTAAACTCCTGGGCTCAAGCAATCCGCCCGCCT
CTCAAAGTGCTGGGATTATAGGCGTGAGCCACCATGCCAAAGCCAAAAGAGTAATTTTTA
ATATATAAAAAGCTCAGGATAAAAAAAGGCAGGAAGGATACCAAGCAGAAAAATAGGCAA
AAGTTGAGCTGGGCTCANCAGCACATGCCTGTAATCCCTGCTACTTGTGAAGATTGAGGT
GGGGAGGAAATGCTTGACCCAANGAGCTTCAAGACCAGCCTGGGGCCGACACCAGNACCG
ACCCCCATCTTAAAAATTAAAAGAAAAAATAGGGCCAAAAATTACAAGCNAGATGCCGTT
CACAAACAGGAAATACCAATGGCTTCATATAAAATCTGGNGTCCAACCTTACTAAATAAT
CCAAAGATGTCAAAAATTGAATACTTATTCTTTCATGGTTTNGGAAAACATGTAAATTAA
AAAA

Sequence 5982

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTAATTTATTTGTCGTTAGTGTTAAAGATT
AAGCATAGTAACTGACTCTTAAGTGTTAAATAATGTAGAAGTAAAAAAATTTTTTTTAAA
AGGCTTAATTTTGGGANGGGGGGGGACTTTATTTTTCTGTTTACAGNGTAATTACCCTTC

TABLE 1A
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CTTCCCTCCTCTTCTCCCCCCACACCCAACAAAATACAGTTTGGAATTCACTGAAACAGT
ACCTCGGCCGCGACCACGCTAAGGGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnGCGTAATCATGGGGTCATAGCTGTTTCCCTGTGTGN
AAATTGTTANTNCGAGTCACAATTTTCCCACCACAACCANTANCGAAGCCGGGG

Sequence 5983
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAAACTGTCAGGTTGCCGTCTAGGTAGCG
GTTGTGCTTGCTGAGGCTGCACTTGCTGACACTGCAGCTGCGACGCGGCTAAGAGGCGCA
GAGCGAGGAGTCGGGATTTGGTCGCGAGCGGCGACGAGCATTTGTGCAGAATGTCATCAG
ATGAGGAGAAATACTCACTTCCAGTTGTGCAAAATGACTCCAGTCGAGGCAGTTCTGTCT
CTTCGAATCTTCAGGAAGAATATGAAGAACTGCTTCATTATGCTATAGTGACTCCAAATA
TTGAACCCTGTGCTTCACAGTCATCTCATNCTAAGGGGAGAATTGGTGCCAGATGTCAGA
ATTTCTACAATTCATGATATTCTTCATAGTCAANGAAATNACTCTGAAGTAAGAAGAAAC
TGCAATATGAAANTTGGAAAAGGATGTGATTTNCATATTTCAAGTCATTCAAAGACAGAT
GAGTCATCCCCAGTGGTATTCGNCAAGGAAGCCTTNTTACCCAGTCATGGATTTTTTTCA
GTTCACATNTTTAGCTGACTNTTTCTTACCAGCAACAAAATCTAGTCATCCAGAAGCCCA
TGAAATACTTGGGGAGCGAATTTCTTGTTTTTGATGAAAACCTTCGAAAAAGGNAAATGN
GCTTGATCTTTGGGNGTCANGGCTTAAACAAACCTTTTATTTTTACTAATAAATGGAGAC
TTAATTTNTTTACTTGCNCCCCAATGGGAATGAGAAAAAAAAAAAAA

Sequence 5984
CCCTTAGCGTGGTCGCGGCCGAGGTACCCTTACGAATGCCACGATTGTGGGAGAACCTTC
AGGAGGAGGTCGAATCTGACACAGCGCATAAGAACTCATACTGGAGAAAAACCCTACACA
TGTAATGAGGTGNGGGGGAAAATCCTTAACCAATNAGCTTTTTCTTCTTACAATTCACAG
GGAGAAATACATAATGNGAGAAGAAATCCTATGAGTGCAGTGGATTNGTGGGAAAATCCT
TTAATGTTCTCTCGTCCGTTAAGAAACACATGAGAACTTCACACCTGGAAAAAAAACCCT
ATGAATTGTAATTTATTTGCCGGGGAAAAATCCTTCACAAGGTAACTCCTACCTTTTCTG
T

Sequence 5985
CCCTTTCGAGCGGCCGCCCGGGCAGGTACACATTCTTTTCTTCAGCATGTGGATCATTCT
CAAAGATAGATCACATTTTAGGCCACAAAACAAGTCTTAAAACTTCCAAAAAGAGAAGGA
AATTATATCAAGCATGTCCTCTGACCAAAATTGAATAAAACTAGAAATCAATAACAAAAG
GAACTTTGGAAACTATACAAACACATGGAAATTAATCAATATGCTCCTGAATGACTAGTT
GGTCAATAAAAAAATTTAAAAATTAAAATTTTTTGAAACAAATGAAAATAGTAATAAAAC
ATATCAAAATTTATGGAATACAGCAAACCATCACTAAGAAAAGGTTTACAGCAGTAAGTA
ACTGCATTAAAAAGGTAGAAAAATTTCAAATAAACAATGATGCATCTTAAAGAACTAGGA
AAGCACCTACTAAGCAAACCAAAAGTTAGTAGAAGAAAAGAAATAATAAAGATCAGAGCA
GAAGTAGTGAAATTAAAACTAAAATCAATTACAAAATATTAATGA

Sequence 5986
CCCTTAGCGTGGTCGCGGCCGAGGTACACCCGGCAGCACAACGAGNNCAGNCACAACTTT
GAGAGCATGTCACCTGCCAAGCCAGTCCAGCCTNACAGAGAACGGAAAAGAGCCNNCAAA
TNCAGCNAGCACAGNATGAGTTAGAACTCANACTCCCATNAACTTAGACTTACTAGNACC
ATCCTGCTTTACAGATTTGATTGCTTTGGAAAGACTTCAAGCCTTGNCACTTGCTGTTTT
TCTCACNNGAAAAGTATATGGCTTTCTGCTTTTGATCCAAACCCCANCAAAGCCTNNCTT
AAGNNTCCNGACCTTNCTTTGGGNAANNAGGTTTTNNCTTTTTCAAGGTTTTTCNAAGAT
GTAAGGNTNTTCNTTGAATGCAATTTTGGCATTTNAAATTCCACGNATTCCNGNAANTTT
AAATNCNTAATTGGTTCCTAAAAAGANTGTTGGTTCTTTTAACCTNCNNNGGANTCCATN
TTTATTTTTAAACCANTAAANGGGCTTTCTTAAAANGGCNCTNCATTTTANCTGGGNCCN
ANNCCCTNTTCNTAAACAAAACTTCCNTNAAAANCCGGTTAAAAAAAATNTTGTTGGCAT
GAATCTTTANCAGTACNCTTTTAAAAAGGNGCTTTTTTTGNNCCCTTNCCCGG

Sequence 5987
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTATGCAGTCATGGCTCACTGGAGCCTTGAC
CTCCTGGGCTCAGGCAGTCTTCTCACCTTAGCCTTCTCAGTAGCTGGGACTACAGGCATG

TABLE 1A
533/599

CACCACCACACCTGGCTAATTTTTAAATTTTTTATAAANACAGGGTCTTACTTTGTTGCC
TGGGCTGGTCTCAAATTCCTGGGCTCAAGGNATCATCCCACTTCANCCTCTCAAAAACTC
TANAATTATAAATTTNAACCACCATACCCACCCCCATCATCTTCTTATAAAGACACTAAT
TATTGAATTCAANACACACACTAAATCCAATTTAATTNCATCTCAAAATCCTTAACTAAT
TATAACTCCAAAAACTCTCTTTCCAAATAAAATAACATTCTTAAATTCTAAATAANCCCT
TTAAATTTTAAAAAAATTCTTCACAANTTANAAACCACAAAAAAACANTTAATTTATAAC
AAATACTCATTAAAAATTTCATAAAAAAAAAAACATTTCCACTTAAACTTAAAAAAAAAT
CAAAATTNTTTCNACCCAGAAAAANTTTTNCCCAAANNAANTCTAAATNCCTTTTTTTTT
TTTTTTTTTTTTT
Sequence 5988
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACNCGGGGGAACAACGGAGGCAGAGGAGCTGA
AGACTCCAGTATGCAACTGACTACAAGGAGGTTTGTGAGGCTTCAGTTGATCGTGAGTGT
AAGTGCTTCAGTGCGATCAAAGTTCTACGTGCGAGAGCCGCCGAATGCCAAACCTGACTG
GCTGAAAGTTGGGTTCACCTTGGGCACCACTGTCTTCTTGTGGATCTATCTCATCAAACA
ACACAATGAAGATATTTTAGAGTACCTCGGCCGCGACCACGCTAAGGG
Sequence 5989
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAACAAAAGGAACTTTGGAAACTATACAA
ACACATGGAAATTAATCAATATGCTCCTGAATGACTAGTTGGTCAATNAAAAAAATTTAA
AAATTAAAATTTTTTGAAACAAATGAAAATAGTAATAAAACATATCAAAATTTATGGAAT
ACAACAAACCATCACTAAGAAAAGGTTTACAGCAGTAAGTAACTACATTAAAAAGGTAGA
AAAATTTCAAATAAACAATGATGCATCTTAAAGAACTAGGAAAGCACCTACTAAGCAAAC
CAAAAGTTAGTNGAAAGAAAAAGAAATAATAAAGATCAGAGCAGAAGTAGTGAAATTAAA
ACTAAAATCAATTACAAAATATTAATGAAAGGAAAGGTTGGTGTTCATAAAAGATAAAGT
CAACAAACTTANGGCAAACTAAAAAACCAAGGAGATATTAAAATAAGTTAATAAAATCCA
GAAAATCAAAAGAGATTTTCAACTGATCCTGCGAAATTCAAAGGTTATTAGTNACTNCTN
GAGNCAGGTTTATGCCATTAAATTGGGAATAAGGAAACCAAACCCTTACCACCAGATCCA
AGGCCTTATTAAAAAGTCTCCTNTCGAGAAAAGTCCCNGATTCATGGACTTCCCAGGTTG
AATTTACTAAACCTTTTTAAAAGAACTAATTCCATTCTTCCTCAAATTTTT
Sequence 5990
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGTTTTTTCAACCAGTTTATGAGAGAATGAA
AAGAATGAAAGTGAAAATTTTACTTAACTTAGGGTTATGTAGCTCTAGGTAATCTCTTCA
GAACTCCCTTGCTTCACCTTCTCAAGTTAATCAACAGTGGCTAGTTTATAACTAGAAACC
ACTTACCAAATTGCCTAAACAAGAAAACTTTTTAAAATAACAATTTGCTGATCTGTCCAA
TAACTCCAATAAAGTTGAATTTGCTTTATTTTTCCAAAAATTATGTTGTCTAGATAAAGA
CTCTTTGTAAGTGTAAATGTATGATATATTGAGTTGATTTTTAGTCCCTATTAGAGAGTT
GTTAGACAAGTTATTAAAGTTTAAGAAAATTTGGATTCTAAATTTCCACCTGATAACATA
TATGAAATATTTTATATTTTCAATATATACTTACTTATATTTTGCACACTGTATATAAAC
TAGGGAGATTAAGAAATGGTTTAAGGCCCTTCTCTGGGGGGATATCTGCCCTATATAAAG
GAAAAAAAGAAAGGGTAGAAAGAGACTTAACTTTTTTTCTATCTTCCATAAAAAACTTCN
AAAATGTTCTTTTTAAAATGGAATTTTTCAA
Sequence 5991
CCCTTAGCGTGGTCGCGGCCGAGGTACATCTACAGTGGCAACAGCCTGCAGGATACCAAG
GCTCCCATGATGCCTCTGAGCTGTTTCCTGGGCAATGTCTATGCTGAGAGTGTAGATGTT
CTTCGAGATGGAACTGGACCTGCAGGTTTACGACTTCGCCTACTTGCTGCAGGTTGTGGA
CCTGGCCTATTAGCAGATGCCAAGATGCGGGTATTTGAACGTTCAGTGTATTTTGGTGAT
TCCTGCCAAGATGTTCTTAGCATGCTTGGCTCTCCACACAAAGTCTTCTATAAATCAGAA
GACAAGATGAAAATTCATTCTCCTTCCCCTCATAAACAAGTTCCATCGAAGTGTAATGAC
TACTTTTTTAACTACTTCACTCTTGGAGTGGACATCCTCTTTGATGCGAATACACACAAA
GTGAAGAAGTTTGTTCTACACACCAATTACCCTGGGCATTATAATTTCAA
Sequence 5992
CCCTTGCGTGGTCGCGGCCGAGGTACAGTTACCTCCAGTCTCTTGTGTATCTGGAATGCA

TABLE 1A
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CTTACTTCCTNTTAAGGTTCTTAGAGTGTAAGGAAAACAAAAGCTGTAGAGTTCTGCATC
CATGGGGACTGAGACAGANCAAAGCACTTCCTAGTATGTTCAACTGGAACATGGCCCACA
CTGATCCATGGTCACAGTTTGGAATGTGCTGAGAAGCTTCATCTACAATCAAGTTTCTCA
GTAAGAAGTCCCCGCAGAGGGAGGGAGTCCACTGTGTACCTGCCCGGGCGGNCGCTCGAA
AGGGCGAATT
Sequence 5993
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TTNNAAAAAAANNTTTCNNNTNTTAAAAAAAAANTTTTTNGGAAAAAAAATTTTTTTTTT
TTTTAAANGGGNAAAAAANTTTTTTTTNTTTTNAAAAAAAATTTTTTTTTGAAAAAAAAA
AAAAANTTTTAAAAACCNGGGGGGGTNNTTNTTTTTTTAAAAAAAAAAAAAAAAAAAAN
CCCTAAATTTTTTTTTTAAANGGGGTTTTTNTTTNGNCCCCNAAANTNAATTTTTTTTTA
AACANNTTTTTTTTTTTCAAANNNAAAAAAAAACNCTTTCNANCNAAATTATGNAAAAAA
AAAATTTTTNTTNTTTTTTTANTTNAGAAAAAAAAAAATTTTTTTTTTNNANNAAAAAAA
AANGGGANAATTTTNTTTTTTTTTCNTNAAANAAANANTCTAAAAAAAGTTTTTTTTTTT
TTTTTGAAAAAACNNANTTTNGGGGTTTTTT
Sequence 5994
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATATTTAAAAGAAAATAGTTCCCAAG
AAATGAAACTGGCTCCAGAAAGCTGACAGCTCATCCTGTCCATGACACTTACCCACTTCC
AGGGTCACCTGCAAACACCAACTTCCTAGCCTTACAGTATGTGATCTTCTTTGCCTGGAA
CCCGAGGGCGCATCCAGCTGCTGCTATTTTTGTCCCTGGCTTTGGGCTGAACTAATAATG
TTATGAGAAATTTTAAGAATTTGT
Sequence 5995
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTGGGAAATG
AATGTTTATAGCAGCATTAGTCACAACAGCCAACAAGCAGAAAAAACCTAAATGCCCATC
AATTGAATGGACAAACAATATGNGGTATATTCATACAATGGAATATTATGCAGTCATAAA
AAGGAAAGAAATACTAATACATCAACAAGGATGAGCCTTGAAAGCATTATGCTAAGTGAA
AGAAGCTGGGCATAAAAGACCACATATTGNATGATTCTATTTAAATGAAATGTCCAGAAT
AAGCAAATCCATAGAGACAGAAAGTAGACGAGTAGTTGTCGGGGGCTGGTAGGAGGGGAT
AATAGGGAGTGATAGCTAGGGATNTGGGGTTTCTTTACGGGAGGGAGCTTAAAAACGTTC
TGCAATTAGTGATGATNGCTGCCACAACTTTGTGAAAATGAAAAAGGGAAATTTTATGGG
GGGGTAAATTTTTATCTCAATTTTAAAATCCTTTNATGAACACCTGCTATTAGCACAAAC
AGACTTTCCTAAGCCCTGAANTAATATTGGCCCTTGTTGACTGCCTAACCCAATNGGTTT
TTTACAAATGTTTTCCTTCTCCTTTAAAACATTAAGGGGATTTTTTTA
Sequence 5996
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAGGAGGAATATTTGCTCTGTGCCATCAGC
CGNGTAGAAACTANAATAACCAGCTGCCATATTGTGAGCTGATTATGAAGAGGACCATGT
GGCAAGACACTGAGGGAGATCTCCAGCCAACAACAACTCATAAGCAACTAAATCTTGTGA
TGAACCACTGGAGTCATCTGGAAAGAGGATCCTCTCACCTTCAATCTTTGAAATGGCTAG
AGCTCTGATGACAGTTGGATTACAGCCTTAGGAGAAACAGAGAGCCGGGGAAATTTGTGC
CCAGGTTCCTTTCCCACAGACATTGTCAGATAATAAATATCTNTGCG
Sequence 5997
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTGGAAGGTGATATTAAAGGTGAACGTGTAT
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GATGTAACCATTACTAACGATGGTGCAACCATCCTGAAGTTACTGGAGGTAGAACATCCT
GCAGCTAAAGTTCTTTGTGAGCTGGCTGATCTGCAAGACAAAGAAGCTGGAGATGGAACT
ACTTCAGTGGTAGGTAGACTGGCTAAAGAATGATCATTTTTCTAAAAACGACCCGACTTT
CAGAAAGTTGAAGCCATAAGTGGGTCATTTGTGCTGTGTCAGAAATAAGTTACATATTCT
GAATGC
Sequence 5998

TABLE 1A
535/599

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTCAGACCACAGCTGCAGAGGGGATCGTG
GTGAATTTCAATGAAAATCCATTTGAATCTTGAGGTTCAGATCTTAAAAAGCAAAGGACA
TGAGAGAAGTAATATTGTTGCTTGAAATTTCATTGCTTATATCTAAAAGAAACTCCTATT
TTTAAGAGAAATGTTGAATCTTTGCAACGTGGTGGACGCTCCCACAAAACTTTCTCCTGA
AATAGGAGATAAATGTTGGAAAGAGGCAATGTATTGAGTATGCTGATAGAGGTGGAGTTC
AGAGACAGGCAAGCATACATAAGAGTCAGGATGTTTTTCAAGTATTATCTTTACAAATGA
GTTTCTTACAGTGGTCAATGACAAACCAATTTCATTCAAAGCTTGCTTCAATAGGCAATG
GGTTTGATGCCAATATGTTAGCTATTTACTTTGACCACCGTATGCATTAAAAAGAAAGAA
AAATTAAAGAATACTCAAGCAGAACCTCAACTTAAATAGCCTTTTCACAAAAAGTAATGG
AGGGATAGACTGAAANTTAATGGGATCAGGTNTGTGATGAGGATCTCAANAAGTGGTTTG
CACAATAATGCAAAATCCTCATTTTAAACAGAGTCTTAAGGATTGGGGACCTAATTAAAA
TTATTTGNATTNAAAAAAAAAAAAAAAAAAA

Sequence 5999

CCCTTAGCGTGGTCGCGGCCGAGGTACGCTGATTGTTGCTAACTGTCCTCCGGGGGAACT
TCAATTTAGTGGTCAGCCTCAGGTGTGTGCCATTGTAACAAATAGCAGTTAAGCTTCATA
TTGGGTGGACAAAAGTTTCCACCCACTTTCAGACANGTTACAAAGATATGTAGCTACACT
GAGCATAAAAGGAGGAAAATTGATGAACACTATGGACAGAAAGCAGGTGAATTGCTAGAA
CTTTGGCTGGTTTGCTTGGGTTGGTTGCTTAAAGATTAAGGAAGAATGGAAATAGCTGAG
CCATCTTACTACTTAGTCCCTCCTATAGTCTGTCATGCCAACCTTAGATCCCTTTGGAGA
TGACACTAAAAGTAA

Sequence 6000

CCCTTAGCGTGGTCGCGGCCCGAGGTACAAAAATTAGCTGGGCGTGGTGGTGGGCGCCTG
TAATCCCAGCTACTCTGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGTAGGTGGAGGT
TGCAGTGAGCTGAGGCCGTGCCATTGCACTCCCAGCCTGGGCAACAAGAGTGAAACTCCA
TTTCAAAAGAAAGGANGAAAAAACAAAAGCAAAAACAAGAAAAACAGAACANTTTATTGC
CCCATAAGGCTACCTTTGATGTATCATAGTAAAAGAAAGCANGACAAAAATCAGTTATGC
TAGAAAAGAGATAACTTACGGAAGTTCACTTAAGGGAAATACAACAAAATGCTCTTTGTT
TTTANTAGAAATATTAAAAGTATGGGGTGTGGATTTT

Sequence 6001

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAGNTTTGC
TTANAATTAGTAATATGTATCTTTGGTAAATTGGTATCTATATTTTAATTTTAAATACAG
TATATATGCATTTAAGAAAAATTCATAACAAGGCAGTTGTGCTGTGTCATTATAAAATAA
TTATTTACTGATTTCAGTATGTCACTCTGGGCTAAAAACTCCAACAACCAGAACTTGAAC
ACCGTAACCCTTCTTTGGCCTCGCTGGACTCTTCTACTTGAATAGACTAAAAACTCTAAA
GGCATAAAAATTAGGAAGACCAATTAGCTAATCTTACTCTTTTTGAAATTCAGAAATTAA
CTTTTTTCATATTAAAGAAGATATCTTGGGCTATCGCATATAAGAAAGAGTTCTCCTGAT
GGGCAACAGCATGTCTTTTCTTTGATGTCCAACACAACCACTTGGGTCTGATCATTGCAA
TTTAT

Sequence 6002

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AAAAAANAAANTTTGNAAAAATTNATNATNTNATTTTTAAAANAAAAANANCATTAAAAT
NGGTTTTTTTTAAAANTTNANCNTCCAATCAAAAACNCAAGGNCCNNGGNNCCNCCCCATT
TCNANGGGTNAAAGGGCANTTNCCANCNGGGNGNTNTTTTCCAAAANTTTNNAANTTTTT
TTTTTTNAAATTTTGANAACCGAGGNAAAATGNTTNCCCAAANCCTGGTGTTACTTNGAT
CCCGNANTTTTTGGGAAAAAAAAANTTTNTTNATTNAAAAAATTCANTTTTTTTTTTTTT
TTTCAAAATNAAAATTTNAAGAAAATTTTCTNAACCCNTTTAATTTTTTTTAAACAGCGN
NCTTTNATTTTANAAAANATTNGGCCCCANGNAAAANCCCNTTATNGNCGNNAANTTGGG
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NTCCCTTGGGGGGGAAACACCCNTTANGGGNGAAATTTNAANAAAATGGGGGGNGTTAAT
TNTGGGANACCAANNTGGGAACAAAANTTNGGGGG

TABLE 1A
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Sequence 6003
CCCTTAGCGTGGTCGCGGCCGAGGTACAAAACTCAAATAGATGAACTTTTAAGACAAAGT
CTCAGTTAACTTGTGAAAATTGAATTCCCATCAAACTGAATGTAAGCATTTAATATCTAA
ACATTTAATGTGGACTTCCAATAAATTCTTTTATAGAATTAGAAAGTGGGATTTACTGTA
GAGTGTAAAAATTTTTTTAAAATTGTTTTACACTATGTAGTAATATTTACAGTTAAATTA
TTTTGTGCAATATTTGAACTTTATTTTTGAAACTATTCTTTAAAGATTTATTTTTTAAAG
CATTCATTTTTTTTCCTTGAATAGCACA
Sequence 6004
CCCTTAGCGTGGTCGCGGCCGAGGTACTGGAGAGTGTCTGCAAAGAGTCCTGTGATGTGA
TCTGTCTCCAGGTCTCTCAGGCGTGGATACCAGCACTTACTCTGGTGGAGGTAACAGGGG
TGTGAAGTAGATTCTGTGAAGGTCCTTGGTTGTATTTTTGTTAAGTGCGCTGGTTTTGTA
TTGGCTGGCCTCCAGCCAGGAGTTGGCACTTACAAGAGCACATCAAGCTACAGTTGTATA
AAACTGGATTTTTTTTAACTGAAGATCCGTGCATATCATTACATGTTAATTTTATTTCAA
TAAAAATAAAAAGCATCTTATTACTCATAGACTGATCTCATCTCATTATTTAAACTATAT
CTCATATACACATTATGTTG
Sequence 6005
CCCTTAGCGTGGTCGCGGCCGAGGTACACTTGAAAATGGAATGGAATCTCCAGGAGTGAG
GGTTTCCATGGAAGCCAGCACTATCCTTGGGGACACCACTGACCATTAACAGATTAGGAA
GATGTGCCCATTTTTACACACCAGAGAAANCAGCCCAGAGTTTCAGTTGCCCTTGCTTCA
GGGCANGAGACCAAGTTGGGGAGTCAGGAACTGAAAGCTGTCTTAAGCCAGTTTGGGGGC
AGGGTGGGGTCTCAGGCCTTTGGCCCCTGTGACTCCAGGTTTAAGGCATATATGAAGGCT
AGTGAGCTGGGGTTGGGATGGGATGGCAGGGTTGAAAGGTCAGCATATTTCCTGCCTGCA
AACCCCCTCCCC
Sequence 6006
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCCTGCTGTTCCGCAGGACCTCCACCTTCG
CCCTCACCATCATCGTGGGCGTCATGTTCTTCGAGCGCGCCTTCGATCAAGGCGCGGACG
CTATCTACGACCACATCAACGAGGGGGTGAGGGCCTGTGCCATCCCTGACCTTGGACCCG
CCTGAGGGGTGACAGTGGAGTAGAGAAGCTGTGGAAACACATCAAGCACAAGTATGAGAA
CAAGTAGTTCCTTGGAGGCCCCCATCCAGGCCAGAAGGACCAGGTCCACCCANCANCTGT
TTGCCCAGAGCTGGAGCCTCAGCTTGAAGATGATGCTCAAGGTACGCGGGGGTGAGATCT
AAAGCTGTCTGAACCGTTTATCCATGCCAAATCACTTACTCAACCAGGAAGGCCCACCCT
TGGCATTTTTGGAAGAAGACTTTTATTTCAGGTTTATTTTGTTCTCTCTTAAATAGTTAA
TTCATTGGCCCCAGCTTCAAAGTGAGAAAACAAACAAAAAACAGTGAGACAGAAAAAAAA
AACTGAATCCTAC
Sequence 6007
CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAACAGACACCAGAGGGTGCAAGAGACTGT
AGACTCCTGAAAAAGAAACCAGAAAACTTTGTCTGGTTAGTGAAATTACACACATAGGC
Sequence 6008
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTGGGAGA
GACAGGGTTTCTCCATGTTAGCCAGGCTGGTCTAAAACTCCTGGCCTAAGTGATCCTCTC
TCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAACAACCACACCTGGCTTGCCCCC
TTTTATTATCATAAATGCCCCTCTTCATCTCCCAAAACATTTGGGATGCCATTTTATTCA
TTCATTTCTAGATGCTGACATATACATTATGTGTACTAAATAGGTGGGTTAAATGTGGTA
ATTCTAGTTCAAGTGTCTTACCCTGAAAAAGAAAGTTGTAGGTTGGCTGTTGAAATTCAT
TCCTTAAATATGATCAGTTTGATTGCCCGGCTTTATTGCCTTTACAGGAATGTGATACTC
ANGGCTTACTCTATACACCAATGAGTCTTCTTTGATCCTAAAACCACCACTGAAGTTGGT
TAGGTTCTTTTGGACAAACATGATAAACTTTTTCANANACTTTTTTTTTTCCTTTGGCAA
NAAAGGGTTTTGCTTCAGGTAACTAATGAAAAAAGTNGGCAACCACAAAGTNTTTNAANA
AAANAAAAAATTCTTGACCTTTTTTTTTTTTTTTTTTTTTTTTTGGGGNTTNGGAAAAAA
NAATGGGNTGGTTNTTCCCCTNGGCCCCANTTTTTGNGAGCTGNTACTTTTNGAGGACCC
TTTTTTTTNNATANGGGGAANAAAAAAATTTGGTGGNTTTTTTTNNAACAANNGNNNGGN

TABLE 1A
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NTNCCCTTNANTTNCACNNGGGGNNNNAAAACTTTTTNNNAATNGGGNCCAAAANNNATT
TTTTTTAAAAA
Sequence 6009
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGGATGCCAGCACCCATAGATAACTGAGGG
CCAATGCATCCTAATTAGGAAGGGATAAAAATAAATATATCCATAAAATATAAATATCCC
CCAATATGCCTGGGACCTGCTGTTGGATGTTTACAGATTGACTCACAGGCCTGGTTGGCA
GTAGTCCCCAAAAAAATTAAATCATGGGCTGCTTTGCATATGATTTCGGGGCATAGTTTA
AAATATAATCATTCCCATCCCAAAACCCTGCAGTTCCATCTGAATAAGTTCAAATATAAA
CAAAATAGAGTTTAAAGGTGTGGATTCTTGAACTTGGGAAGATTGTATGGCAAGTAAGGC
TGAGGTGCTACAAAATAATTCCTATGGAGTCATCATTAATTAGCCTCCTAATGGGATCTT
TTAAAAAAAATTGCACCAGAAGGCCTTCTTGTAGAACAAATATAATAAACCCGATGTAAC
CACTG
Sequence 6010
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCAACAAGGGCCAATGGAAAGATCACAGGGG
CCATGTGTTCAACGTGAAAGTGAGGAGCCGGAGAGAGAGATGGCCTGTGGGCCAAGGCCT
TTACAGGGATCCGGGGTGTTACCCAAGGAACTTTCCTGTGGAGAGTTCTAATTCATGGGT
TTAAAACGAGCATTCAGTGGGGCCATACTGTGACTAAGAGGTGATCATTAAGACATATCT
ATGCAGTCCATGTGGAGTGTGGGAGTCTGTGGGGCAAGTCAAGTAGATTGTATCTCTAAA
TCCCACAGGGAGGTGATCACCAGATGTATAAGGCAGATATCTGTCTTTTATAATGAAAAA
CTGGGAGGAAGCAGAAAAGTGTAAATTGTGTTAAGAATAACTAAGCCTTGCTTCTGGTAT
GAGAAAGTTAAACATATTTTCAAAATGGATACCAAGGTGACATAAAATTACAAGAATTCA
CTACAGCCTACATAAAAAGCAGGCGAGATCTACAGAGAGTTCCACCTGAATCTTCCACTG
AGTAATGGCTGTGCATGAGTGTGATGAATTAATCAAGACCAAGGAAAGAAACCCCCCAAA
GAGGCCAGANGAAAAGCTGTGANGCTCACAAATGGNCAGAAACAGTTTGTGTTNCCACTA
AACANGGTGAAAAATGTCNTCNTATTCATGAACCTTNNGGTNGAGGCCTCAGGANGCTTT
CCCTGAATAGGGNGG
Sequence 6011
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTTAAAAAGTAAG
CATTGTAGTAAATAGTGGATTCTCTGGTGTGTATTTTTTATCTCAGTGTTGAAAATTGGA
AAAGAATGGACTGAAGTCTAAAAACTGGAATAATGAAGGACACTAAATGCCTTTATTGTA
GATACTATGTTTGTAAGTCTATAGCTAAGCAACTTAAGCCAAAAAGGTCTTTCAACTGAA
GCTTTAATCAACTTATTTTGGAGATGTTCTCTTCCCTTATCTCATGCGTCATCCCTAAAA
TAATAAGATACATGGGATCAAATAGCCCTTGCCTTTTCAACACAAATCAAGTTGGAAAAT
TATGGTTTGAGTCCTGTTGCTGCCATGGCTTCTGTTTCTCAGAAATGAGTGTGTATGAAC
ATACCAATCTATGTAATAGGCTACCTTTTTTTGTCTTCTTTGGAACTTTGTACCTCGGCC
GCGACCACGCTAAGGGCGAATTCCAGCACACTGGCG
Sequence 6012
CGCCAGTGTGATGNGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTA
CTATGTTGACCAGGCTGGTCTTGAACTCCTGACCTTGTGATCCCCTGCCTCGGCCTCGCA
AAGTGACTGGGATTACAGGCGTGAGCCACTGTGCCAGCCCACTTATATTATTTCAATTGT
ATTAAATTCATTTTTGGCCCAGGATATTGTTTCTATTGGTAAATGTTCTGTGTGCACTTG
AAAAGAATGTGTCTTCTGCTCTTGCAGGGTTGAGTGTTCTATAAGGGTCAATTAGACCAA
GTTGATTGACAGTGTTTTTTCTACTGNATCCTTCCTGATTTTCTGTCTTAATCTACCAAG
TTCTTGAGAGTGGTCTTGAAATCTCTGATTGTCAATTTGAAGTTTTTCTCCTTGAAAGTT
TTATCAATTTTTGCTTCAT
Sequence 6013
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TABLE 1A
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CCCGCCCAACCGTATGTTTNANAAGAACAGGCATCAATAANNCCGGGCNTNGGCATNAAG
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Sequence 6014
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ACGTGTCAAGCGAAACCGGATTCCAACTATGTGGTGGTCGGCTGCCAGGACGGCACCATT
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AAATGCA
Sequence 6015
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Sequence 6016
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TABLE 1A
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Sequence 6020
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Sequence 6024
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TABLE 1A
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Sequence 6026
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GAGATGTNGACNAGAGAAAACTTT
Sequence 6027
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Sequence 6033
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Sequence 6036
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TABLE 1A
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Sequence 6037
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TGTTGAGCCANACTTGACCAGGGAAGGCGGC
Sequence 6038
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Sequence 6040
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Sequence 6041
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TABLE 1A
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Sequence 6045
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Sequence 6046
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TTAAAAAAAA

Sequence 6047
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TTACCCGCGTACCTGCCCGGGCNG

Sequence 6048
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ATGA

Sequence 6049
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TABLE 1A

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Sequence 6050
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NGCTTATCCAANAG
Sequence 6051
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ACGAGAAACGACAATCACTGTTTTATATTGATTAAAGTCCAGTTACACTTTGGCAATGGC
TGCCATCCGGAAGAAACTGGTGATTGTTGGTGATGGAGCCTGTGGAAAGA
Sequence 6052
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTNGCTCTTTTT
GTTTTTTTTTTTTTAATGAACTGCTTGGACTGACAAAATCTAGCCTGGCCAACATGGCAA
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TNAGCCNAAATCGTNCCACTGCCCACCANCCTGGGCAACTGATTGAGGCACCNTNTCAAA
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AAAACTTTTTCCAAAAATGTTGGGNAAATCATAATATTCATTATTATAACCCACATTTAA
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ATACTCNCTNTAAAATTTCCAAAAAATTNNNNTACAAACCCCANCCCAAATNAAAAATNC
TTCCCAACATTTTAAACTAAAAATTTAATTTCCAAAAAATTTATTAAATTTAAAAATTTC
AAAAATTACCTTTCCCNCNTTTTTTATAACTTCCCAAAACCTAAATTTNTTTTAAAATTT
TNTNAACCAAAAATTCTAAAAACNTTTAAAAAAAA
Sequence 6053
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ACGTATGAATTTTTTTTCAATACAGCCAAGATGCTGGCTTCTCACCTGTGAATATAGTTTT
CACGATTGGGTAGGTAGATCATAATTTATAACCAAAGACACTTGTTGCACATCAATCCCG
CGAGCCTGAAACACAATGGCATGTTTTAAAAATTGATTCAAAAAAACTTGACACCTGTCA
TGTAGGCCACAAAATAGTAGCCGAACTATACTAAGTGGTATAGCCCACTGTGGAGTGTGG
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AAAAGCTAACTTTTTGGTAGATTTTTTAAAAAGGCATTANGAGACTTACCAACAAGTCAG
TAGNTGATCAGAAACACGACTTGACCCTTGACCGGGAA
Sequence 6054
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AACAAAGACAATCTGAGAGAGGCCTTCAGAATTGCAGAACAAGAATTAAAAATCCCCAGA
TTGCTGGAACCAGAAGATGTGGATGTTGTTGATCCTGATGAAAAGTCCATCATGACCTAT
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TAATGCATGGA
Sequence 6055
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGCGTGCTCCCAACGTCGCCCCGGTT
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TGGATGATTTGAAGATAAACACCCGATATTACTGGTGCTAAAGAAGAACTCCTAGATGAC
AACAATTTTATCTCAGACAAAGAGGGCCGGAGTTCATAAGCCAAAAGATTGTCAAACATC

TABLE 1A
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ATTTCAGAAAAATAATACGTTGACTCTTGCCTGAAGAACTGTCAAAGGACAAATCTGAAA
ACGCCTTAAGTGGAGGCCAGTCTAGTCTATTTTAT
Sequence 6056
CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTCTGA
CAGTCTCACTCTGTTGCCCANACTGGAATACAGTGGTGCGATCTCGGTCACTGCAACCTC
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ACGCACCACCACGCCCAGCTAATTTTTGTATTTTTAGTANAGACAGGGTTTCACCATGTT
GGCCAGGATGGTCTCAATTTCCTGACCTCGTGATCTGCCCACCTCGGCCTCCAAAGTGCT
GGGATTACAGGTGTGAGCCACTGCGTNCAACCTGGNGAAAATTACTTTTATGCATTCATT
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TAATGATGGNAACCCTNTNTNGAAAAAGGGTGGCAAACATTTTGGCTACTGGGCNAATCA
NNCCCCCCCCCTGTTTGGGGGCCGGCCCTTAGCCAAAAAGGGGATTAACTTTCTNAAGGGG
NCATTTTAAANNGGGCAGTTGGCCCTTTCATTTGAAGGGTTTGGATCCATNATTAACCAA
TTGGGAAGGGAAATTTGGGGAAAAANCAATTTTTAAAAAACCTTTTCCCCCTTTT
Sequence 6057
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ACTCCTTAGCAAAGATTGCTCTTGAATGGGAGAGGTTGCGGAAAGAGCCAAAGCCAATTT
GGAGAAGTGAGAAACTTACAGGTTTGAGGAATGGTGAAAGTCAGCGAAGGATCTAGCCTN
CTTAGATGATGAACANGCAAAGTCAGAGAAAGGAACCACAGGTGAGAGAATTGGCATATG
CCCCTAATAAAAATCACACAACTTCAAGACACACACACAGACACACAAATATTNATGCGT
TATACCCATTCAAGTAACTGGATATTTAATTCATTCTATGCAATGAACAGTCAAAATGCT
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GAATGTCTGAGTTGCACAAGTCAAAGATCCGTGCTGNTCAATNGGTCCTTTTTCTCANCT
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TGTGCTTCCAAAGANTCACTTACCTAAAAATNGGTTCTTCAATTGGTAATTNGGGACAAA
ATTTTTAAAT
Sequence 6058
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TCAGGTGATCCACCCGCCTCGGCCTCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCG
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ATGATCTGTTTTGAAGGCAAAAATTGCAAATCTTGAAGTTAAGAAGGCAAAAAATG
Sequence 6059
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GTCTCAAACTCCTGGGGTTAGGGAATCCTNCCACCTTAGCCTCCTGAGACTGTATCTTTC
TTATAGACNGCATTCATTGAAAATAGTTCTATAAAAGTTTATAACCAACNTAATTACAAA
GAGTTTTAAAGACTNCTACTGAAAAATCACACCTNCCTAATCCAGTAGGGTTTTTTTTTT
TTCAGATGAAGAAATGCATNGCTTTTGGAGGATCATAACCCAATTTTTTTT
Sequence 6060
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GANCAGACACCCCGACATGCAATGGTGACACTTAATTNGGTGGAATAATCTCCGTTTGGT
TTCAATTG
Sequence 6061
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TABLE 1A
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TCATGCTGGGCATAAGAAAGAAAAAGGAAAACTGATTGATGTTAATAAGTTATGCGGTCA
TGCCATCTATACTAGCTTTTCTGGTTTTCTGACCTTAGCCTCTTTTTTGAATTATTAGTG
CTTATAAAGAGCTCAAGACTTTTTTTTTCTTTTTCTTTACATTTTACTTCTAACTGCATT
GATGGTCTTTTCTATTGATTATTGGTTCAAAATTAAATGTCTTTTTTTCTATGAATAAAG
TTAAAAGTTCCCAGGCCTCATTTCAGATCAGAGCATTTTATGGGCATTGTTATAATTGGT
AACTCTCCTTGCTTTCTATCTTGNTCTGAANAAAACTC
Sequence 6062
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GTAATTTTAGTAGAGACAGGGTTTCACCATGTTGCCCAGGCTGGTTTCGAACTCCTGACC
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AAATGATCTGTTTTGAAGGCAAAATTGCAAATCTTTGAAATTAAGAAGGCAAAAATGTAA
AGGAGTCAAAACTATAAATCAAGTATTTGGGAAAGTGAAGACTGGAAGCTAATTTGCATT
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Sequence 6063
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CATAAGTTAGATAACAGTTTGGCAAATGTGTCTGTGCTCAGTTTTGCTTCCAAATTTGGA
CTTTTAGACTTATNGTCAGCCTCAGAAAGAAATAAGAAGCTGTGCANATAATTAAACATT
TGCCTTGGGGG
Sequence 6064
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TTTTTGT
Sequence 6065
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TCAAAAGCAATTTTCCTTTATTAAAANAATGCTTATAAA
Sequence 6066
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Sequence 6067
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TCTGCATTCGGAATATATGTGTGAGAAACATCCTGAGAATTCTACAAATTGGAATGGACA
ATTTCATTAAAATGTAATCGTAATGGACAATTAAATTTTTAGNGGAAATT
Sequence 6068
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TGCAATCAGAATTAAATTGTCATCAGTTTAATATGATCATTTATAAAATGTCGTTTACAA
GCCTCATGGTAACCTCAAATCAAAAGACCTACAGTAGACATACAAAAAATAAAAAGCATG
AAATTAAAACACACCATAAGAGAAAAATCACCTTTATACAAATGAAGATAAAGGAAGAAA
GAAGGGCGATAACACCAAAAAAGTCAGAAAACAAATAACAAAATGTCAGTAAAGTCCTCA
CATATCAA
Sequence 6069

TABLE 1A
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CCCTTGAGCGGCCGCCCGGGCAGGTACATACAAACAATGAAAACAAATCACATCCTTAGG
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TATAGGAGCAGCAGCTTATCACAAGTCTCCACAAGTGCATTAATGATGGAATCAAAACAA
CACAACAGATTCATAAGGATGAGAGAACTGCAGAACAACCAGAAGTCAGTTTTATGCTTC
TTCTTGTTCTGGATAATTCAGAATTTTGCGGTGTGCCTGTCGTAAATATTGCTGCTGTTT
GAAGTAAACTTTAAATGCTCCTTTTATGGCAACAAACGCAATTCCACCCAAGATTGTCCT
TTGTAAATTAGAAGTTAACACTACTGAACATCAATTTACCAACTATTGTAGCAATAGTAG
GAAAGACAAGGGCTCCACACAAGATTCGAGTAGCGGAGACATGATCTGCTAAAGGATTGG
CCTCAGCTGGAATTCGAGGAACAGGACAACCTATCCCTGGAAATATACTATTTAAAATTT
GGTAGTTTAT

Sequence 6070

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGTAGCACTGATATCTCAGGTGAGTGTTCCG
AAAATAATGTCTAAGGAACCACAGGCTACTTGTTTTTGCTTATGAGTCAAGGCTTCATTC
AGAACTTTTTTTTTTTTTTTTTTTTTTTTGGAAATGTAAAATATTTTTATAGTTTGTTCATA
CTATATGAGGTTCTATTTTAAATGACTTTCTGGATTTTTAAAAAATTTNTTTAAATACAA
TCATTTTTGTAATATTTATTTTATGCTTATGATCTAGATAATTACAGAATATCATTTTAT
CTGACTC

Sequence 6071

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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCCGATGCTACTATTTTATTGCAGGAGGNGGGG
GTGTNTGCNCCGCACNCCGGGGCTTTNAAAAACAANAAGGAAGGNGGGAGGGCANAGCCC
CTTGNTGANCAANAAANGCCGCCTGCTGCCTTNTTTGTCTGTCTCCTGGNGCAGGCNCAT
GGGGANACCCCGCGTACCTATNAAGCCTTTTTTTATTNTTCATGAATAACTNAAAATCAT
GCCTCATTTTATT

Sequence 6072

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TGTCATTGTATGACTACTGATGCTCGTTTATGTTGTTCTTTGGAAGCTATAGTGAGCCTG
ATGTTTTCACATTTTAAAAAATGCTTCCTGAGACTTCTTTAAGCTCCTCTAACTTCTTCA
GTGCATTTGGGATCAAACTTAGCTCTTAGATCAGCAAACCTGACTTGCTTCTACTTTTGC
AATTTTTCAGGCCTTACCATATTTCTTATCTCTGTCTTCCCACCTGATAGGAAAATCTTG
CAGATTTGA

Sequence 6073

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GGGAGACCCCNCNACNCCCTTTTTTAAANGGGGNNNNCCCCCCCNCAAAGGGGGGGGNGG
GGATANAAAATTTTTTAAACCCTTTTTNGGNNAAAAAAAAAAAAAAANGGGGNNAAAAAA
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Sequence 6074

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TCTAACCTCTCATTTTATTTTAAAAGAATAATGCTATTTCAAATCCTATTGCTCTAAAAA
TAAACTTAGTTTCACAAGAACACTANCATTATCAACCAATTCCTGGATTTTCTTTGAGCA
GCTCTAGAATTAATGTTAATACCAATTTTTCTTCTCTGTTATTTACTGTCATGTGGTATC
CCAAAATTATTAACAAGTGAAGCAACTATTATTAATTTTAAAAAGATTAGGGTTTTCGAC

TABLE 1A
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CTTAATGTTTTCAAACCTTTATAATTGGACACATCTGATTAAAGCTAAAAAAAAAAAAAC
TTTATTAATCTAGTAGAATGGTTCATT
Sequence 6075
CCCTTAGCGTGGTCGCGGCCGAGGTACATGTGCACATTGTGCAGGTTACAAATAATTATT
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CCACTTATATGTGGATTTTTTTTCTAACCAAAAGAGGATTGAAAATACAGTATTCTCAGG
ATGCAAAATCTGCATATACTAAGGGCTGACTTTTCACATACATGGGCTCTGCAAGGACTT
GCATATGCACTGATTTGGGTTTACACGGGGGTGATGATTTGGATATAGGCAGGTGGTCCT
GAAACCCGAATTCCCCGAGCATGCTGAGGGGATGACTGTATATGTGAATAAGACTTAAAT
TATATTTCCAAACTTGGGATGGAATCAAACATTTTAGTAACAATTCTGTTGATTACACTT
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GTGTATGNGTGGTNGGNTCGGGAAACAATTATAAAAGATTTGNGAATTATTTNGGGATGT
ATGCCTNTTCCCAAATACTCCNNTTTCCCTTCTTT
Sequence 6076
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCCCTGAAGG
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GTTTTAAAAAAAAAATAAATTCGTTTAANGTTNTTTATGGGGTTAAAAGGGAAGAAAATN
CAAATTTNCATTTCTTTACATAAAAAAAAGAAACCGNGCAAGGAGGGGGACTCAGGNAAA
AAAATTTTNCAAACCAATTTTANCAACNTTGAAANAGCCCAAGGGAANATTTCAT
Sequence 6077
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CTTANTGTTTCCATTTGTATTAATGGGANTACTAAGTCCCTCTTGTGATTTCTGAACCAA
GCTATTCCTAAGGCCTGAGTTTTATTTTGTTGACACAGAAAATNAATTAGAAGGCCAAGC
CGTGGTGGCATGTGCCTGTAGTCCTAAGTTGCTGAGGTAAGAAGGATTGGCTTGAGCCCC
AGGAATTCGAAGGCTTGCAGCCAAGCTTTTGATTGCGCCACTTGCACTTCAACCCTTTGG
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ACCAGGAAAAAATAAACCTAAGGCAATGACNAGTCCCTGGCAAATGCTGGGAAGGGAAGG
CACCANTGGGTCAGGGAAAGGTACCNTGAAACANGGGCTTGTAAAACAAAATAANAATTG
GGGAGGGCCAAGGNTGGGTGGATCCACGAAGGTNAGGAGTTCGANACCNNCCTGGCCCAA
CAAAAGTGAAACCCCCGTTTTTTNTTAAAANTCCCAAAAAA
Sequence 6078
CCCTTAGCGTGGTCGCGGCCGAGGTACAATACAGTGTTCAATAGTTTTTATTGCAGTGAT
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CTGGGTGATGGAGAGATAGTCAACAAATTTATTTATCCATCCTCTGCACATCAGTCCACT
GGGGCANGAGTTCTACCATTAAAAATGTAATG
Sequence 6079
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TTTTTGTAANNTAANGNNTGNNCNNAANCCCNNNGGGNCCNGTNAATNTTTTTTTGTTTG
AAANAAAANAGGANNGNTTTGNTTTTTTTCCAAANNCAAAAATTTTTNGTTTTTAAAAAA
AAA
Sequence 6080
CCCTTAGCGTGGTCGCGGCCGAGGTACGAGTCCCTCTGAAAATTGTCAGTGTTCCTTCAG

TABLE 1A
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TTCTCTTTGGGTCAACTTCAGTCTAAGAATAGGTCTTATGCCAGTCAAGCTGTACGCGGG
CAACAACAGCCAGCGGCTCCTCAATGTCATCGACATGGCCATCTTCGACTTCTTGATAGG
GAATATGGACCGGCACCATTATGANATGNTCACCAAGTTCGGGGATGANGGGTNCCTTAT
TCACCTTGACAACGCCAGAGGGTTCNGACGACACTCCCATGATGAAATCTCCATCCTCTN
GCCTCTCTCCCANTGCTGCATGATAAAAAAGAAAACACTTTTGCA

Sequence 6081
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TAAGTATTCTGTTGCTATTTCTACCAGCGAAGTGGCCTGACCATAAGCTACATTTGAAAG
AAGATCCAAATTTAATTAGCGTGAATAATTTTGAAGATTGCAGTTTGTGTCCCAGTGTTC
CCATTGAACATGGATTTCGTAGACAACAGTCTAAGTCAAATAATGTTGAAGAGACTGAAA
TACATTGGAAACTGATTCCAATTACAGGAGGGAATGCAAGAAGCCCAGAAGACCAGCTGG
GGAAACATGGTGAGAAACAAACACCAGGTGAGAAGGCTTGCTTTGCTTTTCTTCCCAAGT
GTGCCCTTCTTCAGAGTTGCTACTTGCATTTCTGATACTCCATCAATAGGGCATTGACTT
AAATTTTTTTAATTACAGAAAATTTGGACAGTAGCATATTTATTTATA

Sequence 6082
TGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTGAGCTC
CACAAACGTGGCCATGGTTGGTGCGGAAATGATTCTGAGTGAGCAGGTANAAGTCTCACG
TCCTGCTGTGTCCAGAGTTGGTTCCTTCCAGAGGGTTCGTGGTCTCGCTGGCTTCAAGAA
TGAAGCCCGTGGACCTTCACAGTGTGTGTTACAGCTGTTAAAGATGTTGTGTCTGGAGTT
TGTTCCTTCAAGATGTGTCTGGAGTTTCTCCCTTCTGGTGGGTTTGTGGTGTCNCTTGAC
TTC

Sequence 6083
CCCTTAGCGTGGTCGCGGCCCGAGGTACTCAAGTAACAGAGTTGAACCTTCCTTTTGACA
GAGCCGTTTTGAAACAGTCTTTTTGTAGAATCTGGAAGTAGATTTTGGATACCTTTGAGG
ATTTCTTTGGAAACGGGATATCTTCATATAAAATCTAGACAGAAGCATTCTCAGAAACTT
CTTTGTGCTGTATGTCCTCCCGCGTACTATCACAGAAGACAAGAGGAGCTCAAGAGATTG
GAAGAAAATGATGATGATGCCTATTTAAACTCACCATGGGCGGATAACACTGCTTTGAAA
AGACATTTTCATGGGAGTGAAAGACATAAAGTGGAGACCAAGATGAAGTTCACCAGCTGA
TGACACNTNCCAAAGAGATTAGCTCACCTTTCTCCTANGCAATTATAATTTAAAAAA

Sequence 6084
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TAGCAAGGAGTNTTTACTAGGATGGAGGCAGGGGATGCGAGGCAGGTCCANAGCAAGTAN
AATGGGCCAAGACCATGCCATGGCACGCCACCCTGCGCGACAAGAGCAAAACTGTCAAAA
AAAAAAAAAAAAAGAAAATGAGTTTTAAAGTGATGGCAGTAAGCTTATTTGANAGGATAA
ACCCTNTTCCAACTTGTGGAGATACCCCAAAGCAGTTGATGTGGAAAGTCCTTGGCGTCN
CCCTCCTCCTNTTGGANAATATTTGTCCAATNTTTNTCCCCGAGGNTGACAACAACNCCA
AACCCCANATACTCCGGACTCGTCCTNACCCCCCGCCCAGGAGCAGCGAGACCGAGGTGG
CGGCGGANATCCAGGGCAGGAAAAG

Sequence 6085
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ATGCAGAGGATTTTATTAGGCAGTGGAAGTAGCTCTCAGCAGAAGGGGAGCTGAAAGGGG
GGTGCAAGAAGAAGGTGATCTTTCCTTGAAGCCTGGTCGTCTCCATCTGGGCTCCTCTCC
AAAGTTGTGCCGTCTGAAGTTAAGTCACATCTATCCATAGTCTCAGATGCCCAGTTGCTT
CTTCACCTCTTGATATTCAGCTGCTTGTGTTGCTCTGCCAGCTGAAGTCTGTTGTGGGGC
ACAGAATAGGGGCAGACTTATGATGTGATTCAGGTTACAGAACTTGAGGTCAGAGGATTC
TCCTGAATGATGTAGAGGCTCCCAATCAAATCACAGGAGTCCTTAGAATGGAGAATCTTT
TTGGCTGCTTCTCTGTGCCACCTAAATCAGAGTAGCTTCATTTT

Sequence 6086
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TTTTTTTTTTTTTTTTTTTTTNTTTTTTTTTTNTTNNNTAANANTNNANAAANATTNCAC
NTTTTTNANNGTTGATNNTTGAAAANAANGAAAAAAAANGNTTAANTGGNNTTNAAAAAC

TABLE 1A
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TTTTAAAACTTTTAAACATTTTTTA
Sequence 6087
GAATCTNACTTCTTNCCACCACCCNCACTGNTACCACTCTAGNCNAACNAGTAACATCTA
TCCATGAACTATTCTAATNGNCTTGGGAATTACTCATCTTACCTCAGCTNTTGCCCNTCT
ACACAGGAGCTAGTGATTATTCTAAAATATAAGTACTCATTATGTTATTCTCTACTCAAA
ACAATCTTACTTCCTATCTCTGACAGAATGAAATTCACTCTTTAACATAACTTACAACAC
CCTATT
Sequence 6088
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CTTTCACACCAGGATTCAGTAAACAACAATAAATATAATTTCCCCTCTTCAAAACAAAAA
ATGGATTTATACGGAAAAAGGGTTAATTTACTTGGGGTTTATCAGCACACCATTTTTAAT
GTGCTTTGAAAGAATTAAAAACCATGAAACTGTATTCACTGAATACCGGTCCATAGTTAT
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TCTATGGGGATGTGTGGTAGATAAGACTATATTAAAAATTTTTCCTCATTAACAATTTCA
TTAAATTAAAAAAAAATCTGACATTTCCCTTAAATG
Sequence 6089
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACT
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AGCTGAAGCCTCTGCCCCGGTGACCATTGGCAAGCCAGGGACAGGCCTTGAACAACTCTT
TTCCCTGTTAGATGTAAAGTTAAGACTAAGTGCTTAGTAGCTCTGAATAAATACTTTTCT
CTGTCAGTAAAGTGTCTGCATTAATAATAAATATTAATTATATGGGACAGTTTTGACAGG
TGGAACTGCCTGCTTCATGGAAAAATTCAGAAATTGNTTAAAATTGGGAACA
Sequence 6090
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNATT
NAATATTNTTTAATNAAATTTTATTATNNNTNATAAAGGNAAAAAAAAAAAAAAAGNNTN
NTTTTATTTTNAAAAAAACNTGNGAAAAAANAAAAAAAAAANGNGNGGNGNNCAAACTTT
TTNNNATAAAAAAAAAAAAAAGGGNTNTNNAAAAAAACAGNGATTTTTTT
Sequence 6091
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTNTTTTTNNNNTNNNTNCNACGACT
TTTGCAGACAATTTTTCAACATGTNTTAACTTTTTGACTTATTACATTTTTTCTTTAAAC
AATTAAGTTAATTTATTTCAGGACGAGAATTTACTATATAACACTCTTTTTACATAAATT
TTGCCTCCCCCGCCGCCCTTCTCTTTTTTAAAGCGAACTTTCTTTATGTCTTTGGACTAA
ACTGNCTAAGGCCACAAGATTAGAAGGTTNCTATAATACATGTTACACTGGTAACTTTTA
NCAAACTTNACTTTTGGTTGAAAACCTTGGAAGGTTGGGGATTCAAATTATNCCTTGNCT
ATNAANAANAACTTGGTTAAGCTTGAAATNAACTTAAAAATNGGTATAANANGGCCCTTT
TTTNTCTNTGGGGGGGCTTTTCCTTGCCTTTGGCANCCCAATTAATGCTNGGNGGGCCTN
TNAACCNGCTGTTGGGGGGGGAAAGGGGGTNTAAAAACTAGCTTGNAACCNGTTTTTGTN
TGGNAAACCNGGCNTGGGGGCCCTTGGGCTTAAAAGGGTACCCTTGGGCCCAAACCTTTN
NAAAAAAGGGGACNTGTNCAAGGCTTTTCTTTNAAAANGGCCAANCCCCCTTTTAATGGG
NNGCCNNTNTGNTTTCCCCCAAAGTTTAANGTTTCCNGGGGGNCNAANANCCCNGGNAAN
NNCCCTTAAGTTTTTTTTTNAAAAAAAATTTTTTTTTTCAAAAAAAAAAAAANANGTTNANC
CNAAAAATTTNNAAA
Sequence 6092
CCCTTAGCGTGGTCGCGGCCCGAGGTACCTATTATTATTTCAAATTTAAAAACTTCTTCT
TTTTTAAGAGATAGGGTATCACTATGTTGCCCAGGCTGATCTTGAACTCTTGGCCTCAGA
TGATCCTCCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCCAGCATTTGC
CAGGGACTGTCATTGCCTTAGTTTATTTTTTCTGTTTTGTTTTTTTTTTGTCGTTTTTGT
TTTTTTTGAGACAGCGTCTTAGTCTGTCGCCAAGGCTGGAGTGCAGTGGCGCAATCAAAG
CTTGCTGCAGCCTTGAACTCCTGGGCTCAAGCAATCCTCTTACCTCAAGCAACTAGGACT
ACAGGCACATGCCACCACGCTTGGCCTTCTAATTTATTTCTGGGGTCAACAAAATAAAAC

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TCAGGCCTAGGAAATAGCTTGGGTTCAGAAATCACAAGAGGGACTTAAGTATTCCATTAA
TACAAATGGAAACATTAAGCTCATCATCAGAATGAATAAAAGGGAAAAAAAAAAAAGTAC
CTGCCCGGGCCGGGCCGTTCGAAAGGG

Sequence 6093

CCCTTAGCGTGGTCGCGGCCGAGGTACTCACCTCAGACATAAAAAGTTATTTACCTAAGT
CTCTTCTATCTAACAGCATAGAGTTACCCAAACAAGGCCAATAAAGACCCTTTCAATATC
CTTTTCTTAAATTTGGCTCTAAAATGACTGTTAATAATGGTAATAAATGTCTTTTTATTA
AACAGACAATTTTATCTTATGCAATTTAGGGAAATAAACATAAAATCTACCTTTAAATGA
AGAAAATAATAATTTCCCACTCTAACTATGGCTGATTCATTCCCTGAGCATGAATCCCAT
TTTACCCTCATTGTTTTTAACTATAAACTGAGCTGGAAATCTGCTCACAGGTGAAACTAG
TATTTTAGATGGAGAATGATATTACCAAGTAATCATATTTATTACTTTTTGGAGTAATTA
TTTCNACTCACTGGGGGCATTTAATGGTTTCATCTGTAACTCTCTATCACAATGCCCTCT
TATNGAAGCAGCAATAGTGAAAAACATAACTACACTTTTGGGGGAAAAAAAAAAAAAAAA
ACCGGGGAAAAAACNNGANTAACTTTTAAAGGTGGGATCCTTTTATCCAAATTCCAATAA
AAAAAGCCA

Sequence 6094

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTCCCAAAGCCCTTGC
CATGTAAATGCCAACTATGTCTGTGTGAAATAATAACTTGGACCATCTTAAGGCTTTTTT
TCCAAAGTCCTTGTGGAATTTGAAATCATTTTTGTGACTGCTGAGAATGACATTTAGAGA
CTATAACATTTCCTTTTATTCACTTTTTTTTTTTCAGTGTTTGAAAGATGTATGGTGATC
TTGAAACCTCCAGACACAAGAAAACTTCTAGCAAATTCAGGGGAAGTTTGTCTACACTCA
GGCTGCAGTATTTTCAGCAAACTTGATTGGACAAACGGGCCTGTGCCTTATCTTTTGGTG
GAGGTGAAAA

Sequence 6095

CCCTTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCNTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TNGGGGGNNAAAAAANGGNNTTTTTTTNNNNNTNNGGGGNANNCCNGGGGAAAAAAAANN
ANNNNTNGNCCCCCCCNAANTTTTTTTTNNTTTNAAAAAAAAANTTTTTTNCCCCCCNNA
AANANANTCTNCNNNNAANTTTNCCCNTTNTTAAAAAAAAAAAAATTNTTGTGNNCCNNA
AAAANNNTTTTTTNNTTTTTTANNGGGGNAAAAAANTTTNGGGGGGNNTCCNNAAAAATN
TTTTTCGGGNNAAAAAAANAANNTTTTAAAANCNGGGGGGGGGGGGGCNTTTTTTTTTTT
AAANNGNAAATNNNNCTTNCCCCNNAGTTTTTNNTTTNCAGGGGGGGTNTNTANNGCCCC
CCACCNNAACCANTTTTANAANCNNTTTTTTTTTNCCNNAACCAAAAANNANCCCTTTCC
CCAAAAAANCGGGGAAAAAANANCCTNTNGNGGCCTTTTNATTTGNGGNAAAAAAAAT

Sequence 6096

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCAGGGTCAGGAAGCATGTGGTTCATCCTTT
GGAAATGGTAGTAGGAAACCATACAGTCTTTGGCATTTCGAGCTACATAAAGGAAATTGT
CTGAAGTTCTTGAGGTCTGACTCTTCCATGGGTTCTTTCTGAAGACTGCATCTCATGGTG
GCTTGTTCTTTTGTGTATTTTGTAATGTGGGATGGTGAGCTCAAGTGGGGATCCTATGGG
GGTCTGAGTTGCAGCTGTGTCCCTACAGAGCGGACCTGGGAACACTGGCTGNGGGGACCA
CCTTGNGGAATGTCTCTGCTTGTANTTTCTTCATGTCCTATTTGAAACTGTTNAAGGTGA
ATGTCCTGCTGAATGTAGAACTTTATGGNTTT

Sequence 6097

CCCTTAGCGTGGTCGCGGCCCGAGGTACACTTTTATTACTGATTAATTTCAAAGCTTTTT
ATTGGTCTGTTTAGGGTATCAATTCCTTCCTGTTTAATCTTAGGGGGTCATCCAGTTTGT
GTGCATAGATGTGCTCATAATAGTCTCTGAGGGTTTTTTTTTTTTTTTTTTTTTTGTATT
TCTGTGGGGTCAGTGGTAATGGCCACTTTGTCATTTCTGGTTGTGTTTTTTCATATATTC
TCTTTTTTATCTTGATTAGTCTATCTAGCAGTCTACCAATCTTATTCATTCCTTCAAAGA
GCTAAATTTTAAGTTTTGGTGATCTTCTGNATGGNTTTTTCACATCTCAATTTCACTCAT
TTTAAAACCCANNTTGGNTATTTCTTTTGGNATGGNACATTGGGGANTGGGNNAATGCCT
GGNNTTCTTTTTTCTTTTTTTTTGGNACNTTGGNNCNTTTNNCCTTTAATANAAACNTTAA

TABLE 1A
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ANTTTAAGGGGACCCTGCCCG
Sequence 6098
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCGTATTACTTTTCTATTGCTTCTTTACCAAA
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AGTAACCTAAAACTGATCTTATGAAATAAAGTTAAATCTTGGGGATATGGGTGTGGACAG
GGCTGGTTTNTTCTGGGGCTCTGATGGTAAAATTTGCTTCCTTGCCTTTTCTCCTTCTAG
GGAGCCTGCATTCCCTGCCTCCTAGTGGGCTTNCTCCCATCACTCGAACCTNTGTTTCCA
GCCTCAGGATTCCTAATGTGACTCTGATGTTTCATCTCCCGTTTATGAGGACGCTTCTGA
TTGCTAAGATACATACGGNGACACTATGGAAGTTAACTTGAANATTAAAACCCTGAAAAA
TAGAAAGAATCTTCTATGGNATATCACAAGAGATTACAAGGGCCTGAATTAGAGTGGTGA
CATTTT
Sequence 6099
CCCTTTCNAGCGGCCGCCCGGGCAGGNACTTGCTNCTTTTTTAATGNTTTTTNTATGGTA
GAAATATCCCAGAAATTTATTTGATGTTNGCTTGAATACATTTTATNTAAAAAGATTGGG
ATTGTTTGCCTTGGATGCC
Sequence 6100
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTGCAATACACATCTGCAGTGAAAAAGAA
GAAAGATCTCAAGTAAATAGTCTAACTTCGTGCCTCAAGGAGAGGAGAAGAAGATGAAGA
AGAAGAGGAACTAAGCCTAAAATTAGTGAAGGAAATAACAAAGATTAGAGTAGGAACCAA
GAAAATACAGAATAGAAAAGCAATAGAAAAAAAATCAACAAATTTTTTGAAAAGAATAAC
AAAAGAATTGGTTTTTTGAAAAGATAAACAAAATCAACAAATCCTTAGTTAGGCTAAGTA
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TGCCACAGAAATAAAAACATGAGGCTATAATGAACAATTCTATTCCAACAAACTGGATAA
TCTAGAAGAAATGAATAAATTCACAAAACCTTCCAATCTACGATGACTGAATCATGAAGA
AATACAAAGTCTGAACAGACTTATAACTAATGTGGAGGTTTAGTCAATAATCAAAAATGT
TCCCCAAACGAAGAAGTNCAGGACCAGATGGCTTCACAGGTGAATCTTTCCAACATCTCA
AGAAGAATTAATGCCCGTTCTTCTTAAACTATTTTTAAAAATTGAAGAAGANGGCCCACT
TTCAAATTTATTTATGTGGNCACATTTTNCCGANCCAAGCCNACCAAGCCCCCCCAGAAA
TGAAACTGCNGGCAATTTCTTGGTGAATTTCCTTTTAA
Sequence 6101
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CAGAAGGAAAAGCAGAATGAGTCAACTAATGGTAATTCAGAAGTCACACCTAATGTCAAT
CAAGGAAGGCATAACAAATTAGAGTCAGCTATCCATTCTCCTATGAACGATCAGCAAATC
TCACAGGAGTCAAGGAATAGTACCTCGGCCGCGACCACGCTAAGGG
Sequence 6102
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAGGCATTGAGGCANCCAGCGCAGGG
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TTGAAAANAATANGNAAGANTTAAATTACCAACCTANCTTTTAAAAA
Sequence 6103
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AATCTGGTTGATCANATTACTAATTTCTACTCTACTGGAAGTGATCTTTANAAAAACAGG
TCTGCCATGTTTGCATTACAGAGATATTAACAATAATAATGATTTTTAAAAAGTAAACCA
AACATAAATAAACAGGAAAAGAAACCACCATATTTGAGTCCAGTCTTTGTCCTGCCTAGT
GAAACATCTGTCTTATACCTTTTTGACAGGCANAAATAAGGTCCTTCACATCGCCCCATC
TCTCTGATAAATC
Sequence 6104
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTCANC
AAGGCAATTTACTTCTGCAGAAGGGTGCTGCCTGCATCAATCATGAATCACAGGAGCNCC
CCTGAACAAAGGAAGGAAAAGGTTTTTATCCNTAACACAGTCCCTACCTNTGTGTCACTC
CCCCAGGGGCTGGGGTTGGACCCGCTCATTCTAAAGTTGACCCGATTGGCTATTTGTGAA
TCTTTNCCAAATAAGGAAGGGAAG

TABLE 1A

Sequence 6105
AGAAATCGCCCCTCGAGCGGCCGCCCCGGCNNGNCCCGGGGGGGGGAAANNNNGGGGCNNC
CNNGGGGGGNANANANANACNNTNCTNNNNAACTTCCGGGNGGGGAAAANNAAGACCNTNN
NGCATTAACCACCACANCNNNNNCNAACACCAAAACAATTCTCTCTTTCTCCACNCCCCC
ACCACCCNCNGGGNCCNCNTTNCANCACNCCCGACCCNCCCCCCTGGCAAAGCCCCCCTC
CCNGGGGCNNCATCCCGGGGCGNCCCNCNCCAACNNAAGNNNCNCCNGGNNCNNCNCCCG
GCACCCAACCCCCCCCCCNNTCTCAATCTTGCCACCTAATTTCTCCCGCCCAAANAACCN
GGGGNAGCCCCCNCTCGNNNCCCTAAAAAAAAAAAAAAACACAACNCAACCCCANTGGGG
GATCNCTGCCCNNNCACCGGCNCCAACCCCNNCCTTNAACAACCAANAAAACCCCCNCNA
NTAAANGGAAAGAANNAAAAANCCGGAANCGGCAAACCCAAGGGGGTNGGGNCCCCCACC
GGGGGGCANCTNCCCAAANCCCCCCGGGGGNCCCTTCCANTTNTAAAAGGNNCCCNNCCT
CCACGGACCACNTAATAAACAACCGGGANCCCNNTCCNACCCCTTTGGACAAAANGGNNN
GGNCCCTTNGGGGGAGGGNNNCTTCCTTGGGAGAGCCNCNCCAANTTTCCCAAACCCAGN
NNNAANGNNAAGNNACNGNAAAACCCNACCNAAAGGGNNCCAACCCCCNCCC
Sequence 6106
CCCTTAGCGTGGTCGCGGCCCGANGTACTTTTTTTTTTTTTTTTTTTTTTTTTGGGACGG
AATCTTGCTCTGTCACCCAGGCTGGAGTGCAATGGTGCGGTCTCAGCTGACTGTAACCTC
CGCCTCCTGGGTTCGAGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCAC
CCACCACCACACCTGGCTAATTTTTTTGTATTTTTAGTAAAGACGGGGTTTCACTATGTT
GGCCAGGCTGGTCTCGAACTCCTGACCCCGTGATCCACCCACCTTGGCCTCCAATCTTAT
TTGCTTTACAAGTCCTGCTTCAGGGTTACCTTCCTGACCACTGCTGCCTNCCTCCCACAT
TGCCAGGGACTGTCATTGCCTTAGTTTATTTTTTCTGTTTNGNTTTTTTT
Sequence 6107
CATGCTCGAGCGGGCNNNANNGNGANGGATATCTGCACGAAGCGGCCCNTNCGNGCNGGN
ACGCGGGGCTTGGCCTGTTGCTTCAGCCTGAGCTCGGTTAGGGCCTCACTTCCCTGCTTC
CACACCTCAGGGAGGCCTCGGTGATTTTGCCAGAGCCTCAGCCTCCATCGCTCTGTAACC
TGCGGGTATTGGATGATTCNTANCTAANACTTCNCGACACCCTNGAAGNTNANAAATGNA
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CC
Sequence 6108
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTACTTTTTT
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CNGCTTTNGGGAAANTGGNAAGGTNCTNAACCATTNAACNCCNTGNGGANNAGCTTTTTN
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ANGGNTTTTGGCCCCAANGCCCTTTTNAAATNCCCAAACTTGGGTTGAACCTTCCCCGGG
NGGGCCCT
Sequence 6109
CCCTTAGCGTGGTCGCGGCCGAGGTACCCTGCACGCCTGCTGGACTCAATTCAGCTGCTT
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NTGCTNTGTAANCCCACCTTTTANAGGTGATGGGGAATTTATGGGAGAAAAAAATGTCTA
CTGACAAGAAACCAGGAACAGACCTTTTTCCTTCAGTGTTGTGGTTTCATTTTATCTTTT
TTCTTTTTAAATATTTAATTTGAGAAAATGATGTTACTTTTTTTTTATACTTTAAGTTTT
AGGATACATGTGCACAATGTGCAGGTTAGTTACATTATGGTATACA
Sequence 6110
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATAGATCTCATAT

TABLE 1A
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TTAAATTAAAAAATGGACTTTTTTTCTAGTATCAAAATAGTTATTTTTAAAATACCTTGA
AAAACTTTAATACAATTTTTAATATATTAAATATTCACCTGAACTCTCAGCCATTTATCT
CCCATCTCTCTTTGCTAGAATCTTGCCTTACCATCACTATCATTCTTTTGTTTTTTTTTC
TTTTTGGCATCTTTAATGCTTATCCCAGAAAAGCATTAAAAATAAAATATTTTTCTTTAA
GTCCACAATTTAAAAAAAAAAGAAAGAAAAAGGAAAAGCCATTGACAGTATTTGACACGA
CATTGAAGATTCTTATTAAACCAGCCTCATCTTGTTTGCCCACATCCAAAACTCTTTAGT
AAATATCAGTTCTTGCCCTGAAACTGGTAATACTGACCCAATAGCATCCTCTAGTGGCCA
AACTGTAGCAAAGCACCCAATGATGCAGGAANGGTTTCGACCTTGGGTTATATGGACCTG
GGTGGTGGAAGGCTAAGATATGGAGACCCCCCCCCACAAAAAAAAAA
Sequence 6111
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATCCACTCAATACTTGTGTNTCACT
TGGCAATTGGCATACGTGACTGTTCCTCTATTTTTCCATCTACCTAATTTCAAAGGATTT
NCAGAAGGAAAAGAAGATTTANATGCTTCATTTCAAATATTTNTGAGTTTTGACAAAGGT
GCCAAGACCACACATTGGAGAAAATACAGTCTTTTCAATAAATGGTTCTGGGAAAATAAA
ATATCCACATGTAGAAGAATGAGATTACACCCCTCCNTCTTGCNNTATACAAAAACCAAC
TCAAAATGAATTCAAGACTTAAATGTAAGATGCAAAACTATGAAACTACTATGAAGAAAA
CATAAGGGGAATACTTNACCACATTGGGCTTGGCAAAGATTTTTTAAATAACACCTNTTA
ANATACAGGCAACCAAAAG
Sequence 6112
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCAAGATGTTGCAGTATTTCACAGTTATTA
TTATTTAAAATTACTTCAACTTTGTGTTTTTAAATGTTTTGCGATTTCAATACAAGATAA
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TCTTGGACTTTGTTAAATATTTTACTGTGGTAATATAAGAGAAGAATTAAAGCAAGAAAA
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GNAGTTTCTCATCAAGAAGAAAGCCCTAATATGTTAAAGNCCAAATCCGATTTAAATT
Sequence 6113
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TGGCCAAACAAAATTGNGNNGGGNGGACTTTCAACCCTTTTTTTCTTTTTTAATGGGTTA
ACCCAAGAATCCCTCACTAAAGGTTAAAAAAAAAAAAAAAAA
Sequence 6114
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTCTTTAGTGAAGTGAATGTATGGTTTTAA
GGACATACAACCACCGGTTGACGAGGTCCAGCCTTGATATTCAGTTGCCACACAACATCA
TTCCAGCTATGGCAGACGTGTTTTCCTGCATTCGTTAAGGAACAAGGGTCTTGATAGGGG
GAGCCTTTTATCTTAAAGGGGCAGAGATACTTCTCTGAGTCTGAGAGTTGCTTTTGACTT
TGGAGATCTCCACAGGGTATGACAAGACATGCATCGAAGGTAATAGTTTGGGGTGAGCTT
GACCTGGTTACATTAATAATGAGGTGGTCAGCCATAGAATGAGGAAAGAAGAAGGAGTAA
TAGAATAGAATGAAGGAGAAGTTAAACTTTTCTTAGCGTTAGTTTGGTAGGGTTTTCCCC
TGGGATA

TABLE 1A
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Sequence 6115
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTNCGNTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGNAAANANCNCCNCAAAAAAANA
NTNNTTTTNTNNTNTNAAAAANNAAAAAAAANTTTTTGGATNTAAATANAAAAAAAAATN
NAAAAAANNTTTTTTTNCNNNAAAAAAAAAAANANCNATTNTAAAAAAAAAAAAGNGGGG
GCCNANNNANTNAAAAAA
Sequence 6116
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAACTTCTTTAAGCCTCCATGTTTCC
TCATCTGTAAAATGAGGATAATAGATAGTATGGACCTGTTGCAAGGATTAAACATAATCA
GTGTAAAGTGTTGGTCCCATGCTTGCCACATAAGAAAATATTTGTCAACAGAGTGGTAGT
TGTCATTACCATTGTCTCAGTTTGCCTGTAACTAGTTGTGTGATCTGAGACAAACACTAA
TTTTGAACTTGAGTTTCCCCACATGTAAAATGAAAGATTGATAATAGAAAGTAAATCAAT
TTTTTCTAGCATTAAAAATAGTATGCATTTAATAAAAATCTTATTCTTAATGATCTAGCT
TACCTCCAACTTGCCCTAGTCACTTTGGCGATCTTGTCTCTNAATAGAACCTAGAAAACA
CTTAAATGTGTGTTTCCTTGCAATATAACTTTTTCTTTTTTTATTTAAATAAGGTCTTAT
AAATGTNGGGAAANAATTATCTNGTGTTCCCTTAATTT
Sequence 6117
CCCTTAGCGTGGTCGCGGCCCGAGGTACTTNNTTTTTTTTTTTTTTTTTTNTTTTAAAGC
AGAATGGGGTTTTGCTATGTTGCCTGGGCTGGTCTCAAACTCCTGGCCTCAAGTGATCCG
CCCGCCTCAGCCTCCCAAAGTGCTGGGATTATAGGCATGAGCTGCTGCGCCAGGCCTTAA
TTTTTTAAAAACAATGATGGGGTGGGGGTGGGGGACAAGTCCACAAAATGGATAGAACAN
CTGTGAAGGAAACATAGAACTCAGAAAGGATATGGTTAACAAAAATGC
Sequence 6118
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGGGAGCGCCAGTTCCGTCTGTGTG
TTCGAGTGGACAAAATGGCGAAGATCGCCAAGACTCACGAAGATATTGAAGCACGGATTC
GAGAAATTCAAGGCAAGAAGGCAGCTCTTGATGAAGTTCAAGGAGTGGGCCTCGATTCTA
CAGGTTATTATGACCAGGAAATTTATGGTGGAAGTGACAGCAGATTTGCTGGATACGTGA
CATCAATTGCTGCAACTGAACTTGAAGATGATGACGATGACTATTCATCATCTACGAAGT
TTGCTTGGTCAGAAAGAAGCCAGGATATCACGCCCCTGTGGCATTGCTTAATGATATACC
ACAAGTCAACAAGAACAAGTATGATCCATTTGCTGAACACAGACCTTCNAAGATTGCANA
CCGGGAAGATGAATACAAAAAGCATAGCNGACCATGATAATTTCCCCAAAAGCGTCTTTG
ATCCTTTTGCAGATGGTAATTCTTTTCCACTTTTCTATTAAGTATTCAAAAAATTAATTT
GNATTTAAGTGGCCTTTANCCCTTGATTTTTTTTTGGCATGCTTCTGNAATTGCNTTTTC
TTTTTTAAA
Sequence 6119
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTATAGATAAGAAAAATATTCAAATTTATTT
TAGGCTAAAAAGCATAATTTCAACAACTAAAATGCTATGCTTTATTATGAATTATTGATT
TACTTAATATATTATTTATTATATTTCAGGTTNGAAGAAACTGCAGAGTTACTGAAATGT
CCAAATCACTACTTGTAGGATTTTCTACATGAACTTTTTTCTAGGACTTTGGTTACTATA
CATATTGTATATTTTAAGAATTCTTTATACAATGTTAATATACTGCAATACTGCAGTTTT
TGACAATTTGGATTCCATNTGGTNTNTGAATTNTNNGCATTCATTNNNGGGGNNCNNNTT
TAATATTTTTGANCAATGATNATACTGCTTTACCTTGTGTCACTTTTTTTTTTAGGAAAAA
CT
Sequence 6120
CCCTTAGCGTGGTCGCGGCCGAGGTACCAGGATAGTGGGGCACTGTTATAAAGATACTTG
AAAATGTAAAAAGAACTTTGGAACTGGTTAGCAAGTAGAGGTTGGACAGTTTGGAGGGGT
CAGAAGAAGATAAGATGACGCAGGAAAGTTTGGAACTTCCTTGAGATTTTTTTGAATAAT
TTTGACCAAAATGGTAATAGTGATATGGACAAGAAAGTCCAGGGCGAGGTGTTCTCAGGT
GGAGATGAAGAACTTATTGGGAACTGGAGTAAATGTTATTCTTGCTAAGCTTTAGGAAAA
GACTGGTGGCATTGTGCCCCTGTTCTAGGGATCTGTGGAACTTTGAACCTGGGAGAGATG

TABLE 1A
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ATTTAGTGTATCTGGTGGAAGAAATTTCTAAGCAGTAAAACATTCAAGATGTGGCATGGC
TGCTTGTAACACCCTAGCTCANATGTGTGAGGAAAGAAATAACCTCAGGTTNGAACTTAT
ATTTAAAGGGGNAGCAGAGAAATTAGGAAAT
Sequence 6121
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGGTTTCCTTCAAGACCAACACGGGGTATCAC
TGAGTGAATTTTCACAGCGCTCAGTGACTGCTGGTCATTAAATGGGGATGATTGTCATCA
GTATAAGTATCACACTATTTGTCCTGCTAAATGCAAGTTAAAAGATACTTATGGATGCCA
CTACCACATATTCTGACAAATAAGGGAAACACTAGGCTTTTAAAAGATTCTTAGAGTGTT
TTCCCTATATTGCACTTTCTAGATAACACAATTTTAACAATGATATAATGTGATCTTGGT
TCTAGACACAGCAGTGGGGAACACATGAATTTACCTTTTTCTTGTTCCTTTTCTTAAAGT
TTTTAGTATAGTCTCAGGAATATAGCAAGGAGAAATAACAAAATATACATGTGCTTTGGG
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TGCTTTAGCCATTTCATTTTCACAACTGAAAATAAGGAACTACTATATATTTGATGTCCC
TAACTCATTAAACATAGCATTGCCATAAATGCACTGGTCTGCGGNAAACTTTT
Sequence 6122
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AGTCTTCAGGGACCAGTGTCTCCAATTTGGATCCCTTTCTGTGTGTCAGGGGCATCCAAT
CTTTTGCTTCCCTGGGCTGCACTGGAAGAAGCATTTTCTTGGGCCACACATAAAATACAC
TAACACTAACAATAGCTGATGAGCTTAAAAAAAATCCCAAAAAAACTCATAATGTTTTAA
GAAAGTTTACGAATTTGCGTTGGGCCGCATTCAAAGCCATCCTGGGCTGCATGCGGCCTG
TGGGCTTTGGGTTGGACAAGCTTGCATGTGACTGAGTTTGTTCTTAAACTGGTAAGGAAA
CTTTGTCAGGCAGTATTTATTTNCATAAGTGGTGTTTTCCTACCAATCAGCACATGGTGA
AAAATGAGGGGCTATTTATATTTAAGGTGCAGAATTAAATTGGTTTAAAATATCT
Sequence 6123
CCCTTAGCGTGGTCCCGGCCCAGGTACNCCGGGGAAAGCTTCCTGGGACCTCTCCTCATC
TGTGCACCGACTAAGTGGCCAATTCTGAATCCAGCTGNTGTTTCCCAGTCTGGTGATGAA
TCCTCCACAGCTGGTGAGTGTAAATGTATATAAATGTATGTATATACTTTTTCCTTCTCC
CTTCCCATTAAAATTTGTTTGGTGNATCATTTGCTTATTATATCTATATTGCCATATACT
CGGGGTAAAAGCTGTTACCTTTAAAAGTATTGGGTGGTTCTTTTCTTTCCTCACACNNTT
CCCACACAGAACACACATATGCACCATGGAATACTATGCCGCTACCTGTTCTCACTTGTN
AATGGGAGCTAAAATAATGAAGAACTTATGAACCCCAAGGGAACCAACNGACCAACAGAC
ACTGGGGGGTCTACCTTAACCGGGGAA
Sequence 6124
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGTCGAGGAAGAGCAAGGAGAAGGAGCACA
TCACGAGGAAGAAGAGGATCCACACGCGGAAGCCAGCGTTGTTTTAATGGGCCTCTCTTA
TGTCTTCGTTGCCTTCCTTGATATTTTCAAGTTGCCCCCACAACTAACTGGTGAATGCTG
TCAATCTCAGCTTCCTGTTGCAAAACCTTTTCCGTGAATATCTCTTGGAGTCTGGAAATC
TCAACCACTCTCCCTTCGATTTGCCTCACTTCATCAAACAAGCTGTTCATTTCACCAATT
AGTCGCTGATTTTCCTGTTCAAACATTTGTATTTCTTCTGGGGATAACTCATCTTCGCCT
TTGCCATCTCCCCACGTTCCCAATTCAGGTTATGTTTCAGCCAAAATTTTTTCTGGACGT
TCTTCAATGGCAGGGTTTTCTTCAAAAGTCTTTTGAAAGGACTCTTGTGAAACTTTCTTC
AAGAAAGATGTGGATTCTCTTGNCTTTGGAATTTGGGTCTG
Sequence 6125
CCCTTCGAGCGGCCCGCCCGGGCAGGTACCAGCATTCCAGCTCCAACCATGGCTGCAAAG
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CTGATTGCTATGGCAGACAAAGCTGTTAAACCAATACTCCCTGCTAAGTACGCGGGTCAC
TCTCTGGGGGTGGGACTTTTAATACATCAATAACTTTTAAAACTTTCTAGGTCATTCTGA
TGTGCAGCTGAGTTTGAGATCTAATAAGTTAAAGATACTAAAAAGAAGCAATCGACCAAA
TCCAGAATGTGAGGCATTTTATAAAACAGAAGGTTCAAGTTCCTCAACAAATAAATGGCA
TTTTTACCAAAAGGAGTGGGAGGGAATGGGAACTGTCATAGATTAGAAGACTGAACAGAC
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AAAAAAANANATANNNNNNNANNGGTCCAGTCCAAATTTTAAGGAA
Sequence 6126
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTCTTGAGACAG
GGTCTCACTCTGTCACTCAGGTTGGAGAGCAGTGGTGTAATCACAGCTCACGGCAGCCTT
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GCATGCCACTATGCCTGGTTAATTTTTTAAATTTTTGTANAGACATGGTCTCATTATGTT
GACAAGGCTGGGATGTTCCCCCCACCTCCTGTGANAGTCTCATTGTCACCCAGGCTGGAA
TGCAGNGGTGTGATCTTGGCTCACTGNAACCTCCGCCTCCCAAGTTCAAGTGATTNTTGT
GCCTCGGCCTCCCAAGTAGCTGAGATTACATGCGTGCGTCACCACACCTGGGCTAATTTT
TGTATTTTTGGTAGANACGGGGTTTCCCCATGTTGGCCAGTCTGGGCTCGAACTCCTGAC
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CAANAAACCCCAGC
Sequence 6127
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CCGCCTCCTGGGTTCGAGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCA
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ATTTGCTTTACAAGTCCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCCA
GCATTTGCCAGGGACTGNCATTGCCTTAGTTTATTTTTTCTGTTTTGNTTTTNTTTTGNC
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GNNCTAAANAATNCCATTNAAACCAAATGGGAAACTTTAAGTTNTTNANTCAAAGGATAN
AAAGGGAA
Sequence 6128
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TAGGATCTCAGTACTTTTTTTTTTTTTTTTTTTTTTGCAGTCTGCTNTTTATTTGAATGG
AAAATG
Sequence 6129
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GGTTGGTTTTCATCCTTTGGTGGTTTTAAAACATTAGGGGTAGTGTTGGCTATATTAAAA
GGTTGCTTAATGTTCCCTTGCCTCTTAGGCCTCCTCATCAGAAACATCC
Sequence 6130
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Sequence 6131
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TCTTTGCCANCCCAAACGGGGGGAGGANTCACTNCCANGTGCCCCAGGTCTTNANAGAAA
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Sequence 6132
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NCTTCATTTTTGGATAANGAATCCTCCACATTTAAGGGATATTAGATCATTCCTACCAAT
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TCTTAGAGTGAAAACTGGAGTGAAAAAATTTAAAGTCC
Sequence 6133
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTCTCTCCTTCCCTGGCTCTGAACATCATT
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CCTGGCCCTGTCTGCGGCTTCAGTCGGCTCTTCTCTTGGGGATTGGGCCTGCAGCATAAA
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Sequence 6134
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CTAACAGGATTGACTACTATAGCAGCTCATCTAGTCAAGCAAGCCAACAAAGAATATTTG
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Sequence 6135
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Sequence 6136
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Sequence 6137
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CCTTTTTTTTTTCTATAAAAAGTCAAATGATACCCGCGTACCTCGGCCCGNGACCACGCT

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AAGGG

Sequence 6138

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TATGATGTGTGAGTGAACATATGCCACTGCCTGGCCTTTTTTTCTTCAGAGCTTGTTGTC
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AAAATTTCTTGAATTCTAAATATTACTCTTTCTAGATTTTTGAAATCAAAAAGTTTTCAG
TAAAAAAGTTTCTTACTTTATTTTATTATATTAGGTAAGTAAAAAATGTAGGGTTATTTA
CCATAACCTGTTCATTAATATCAGAAATTTACAATAGNCATTTTAAGACCATAGTAGGAT
TCTAGCATACCGGGTAGTACTTTTTTTTTTTTTTTTT

Sequence 6139

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GGCAGGCAGAAAAATCTAAATAGAGATTTTAGCTAATGGCTTCTGCAGGGGTGACAGAAT
TTGGTGTTTGATTCCCACAAGATAGAAGGGATTGGTAAACAT

Sequence 6140

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CACACAAATCTGTTATTACCTTTTTCTTTCTTTTTAACTTTTAATTGTATTGTTTTGTTT
TAATGCCCAGATAGCACAAGCATTCCTCCTTTACTTGCCTTTTCACAAGCCCGTAATCAA
TATCTGTAAAAGTTAAAATTAGTTTCCACAGAAACATTGATTTCAAAGCAAACACTATCT
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AACAATACGTAATATTTAAGCGGGATCTCTAATATTCTAAT

Sequence 6141

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AAAATAAGAATAACACACTAAAATGATATGCAGCAGACAGGTCGCAAACTTGGAGTGATA
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GTGAAAGAAA

Sequence 6142

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Sequence 6143

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GAATATAACANTTTATGTCACTATAAT
Sequence 6144
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ATTATCTACCCAGTTTTTAATAATNNTNAANCAAGGTTCTTGGTGAGCNTCTGAACTNTG
GCAGAATTTGGTGGGCAACATAAGACTTTTTGGATTTTTCCAAA
Sequence 6145
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Sequence 6146
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Sequence 6147
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Sequence 6148
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CATTGATGACACATCCATTTGTCAATGTAT
Sequence 6149
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CCCCCCATTTTCTTCTTTTCCACCCTNATACAGGGTCCT
Sequence 6150
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AGTCTAAANACAGGAATCAGCTGGGCACAGTGGCTCATGCCTGTAATTCCAGCACTTTGG
GAG
Sequence 6151
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AATCAAGTTCCTTTTT
Sequence 6152
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GAATTTTTAAA
Sequence 6153
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Sequence 6154
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Sequence 6155
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Sequence 6156
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AAA
Sequence 6157
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CTCGAAAGGGCGAATT
Sequence 6158
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CATCCTTTACATAAACAGACNAGGTCAACGATCCCTCCCTTTACCATCA
Sequence 6159
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Sequence 6160
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GGGGGTCAGGATGGCATGCACATGTGCTACACTGCATTGACTCAAAAGCAACCAGAAAGT
GTACCTGCCCGGGCGGCCC
Sequence 6161
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ATGTCTTATTTCTATTTCAGTTTCTCTGGTGGGATA
Sequence 6162
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AAACTAAGGCAAGCTGTGAAAGATGCTGTGTCTAAGAAACCCATTCCATTGNAGAACCCA
AAGGAAAAGCGACCAGGTAAAAGGATTGAGAGGGAAGAAGGGGAAGAAGAAGAAGCCCTT
CCTTTAGATATGATGGATGAAGATGACTTACAGTTAATGAAGGATTTAGGACAAANAGTA
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GAACTGATTCATTTACTTCCTATCAAAAATAAAAATGGTATAAATCCCACAAACTAANAA
AAAANCCAATTTCTNATANTAACCAAANATTAANAAGATCCANNAANAANAANANGGAAC
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CAACCTTNNCCTTAATCATAANCATAACCTTTTTNCCTTTTT
Sequence 6163
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TTTTAA
Sequence 6164
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CGGGCTTTGG
Sequence 6165
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ANTTTTTTT
Sequence 6166
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ACTGGAGCTCCCAAATTTATAAAACCATCACTAATAGACCTAAGAAATGAGATAGACAGT
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ANCCTATCAAAAAGAAGTGGAATCAGCAAAAGTCAGTNGCTAAAAGGAAGGTTCATATTC
CTAAACACCTCCTTCAAAAAAGTCTTAAAAGAGGCCCAAACNGGCCATTCAAANGGTCCC
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Sequence 6167

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GCGCACAACAGTGGGTGGTTGCATAACTCTGTGAATATACTAAAAACCACGGAACTGTGC
ACTTTTAATTGGTGAAATGTGTGGTATGTGAATTCTATCTCATAAGGCTAATATTAAAAA
GAATCATATAAAACATTTGCTTTGCTATGATGGCCAGTATGCCATCCCTCCAAGTAGCTC
TGACATTCATTCATTTATTCATCCATTCATTCATTCTACAGATATTTCTTGATAGTCCAC
TATATATGTGGCTCTGTGCTAAGCACTGGGATACAGAGTTGAAGAAGATAGACATTGTCC
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ATTTTTTATTATGGAAAGT

Sequence 6168

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TTACCTTGTTATCAATTTTAGGAAGACATAGATTTTTGTGTAGATGGCCTGCATCCTATG
AGGACTCTTCATTTTATCCCTGGTTTTCTGAGGGCTTTTAATCATGACTCAATGTTGGGT
TTTACTAAGTGCTTTTTCTATTAAGATGATCATATGCATTTTTCTTTTTAGTCCACTAAT
ATGGTAAAGTTCATTTATTGATTTTTGAACCCGCGTACCTGCCCGGGCGGCCGCTCGAAA
GGG

Sequence 6169

CCCTTAGCGTGGTCGCGGCCGANGTACTTGNTTCACCATACTTNATNCACACCAGNGAAA
GAGTNNTGCATTTANTTGGAGTATNTAAAGCCAGTGGCNGTNTNTGCTCATACTTGGACA
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ATCTAAGTTTGGTTAGCCTTAGTTTCTCAGACTTGTTGTCTATTATCTGTAGGTGGAANA
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TTAAATTTGAAGATGGGATGTGTACCTCAAATGGAAATGCATAAATCACCCCGCTNCTGC
GTCGCTCACGCTNGGAACTGAACACCGGANCTGTTCCTATTGGNCCATNTTGGCTNCTGC
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Sequence 6170

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TCCGGAGGAGTCAAAGGAATGAGAAAAGAC

Sequence 6171

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Sequence 6172
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NTTATTTTAA
Sequence 6173
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AAA
Sequence 6174
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Sequence 6175
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Sequence 6176
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Sequence 6177
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CACCATCCCGTGCACCCGGCTCCCGCTCCTGCTCCCGCCCTCCCCGCGTACCTGCCCGGG
CGGCCGCTCGAAAGGG
Sequence 6178
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ATTTATATACTTGATTTTCTTATAAAAATAACTTCAGTTATTATGTCAATATTTACCCGC
GTACCTGCCCGGGCGGCCGCTCGAAAGGG
Sequence 6179
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTNGTCNCGGCCGACGTACNC
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TTGTAAAACATGAATAAAACACATTTTAT
Sequence 6180
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Sequence 6181
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Sequence 6182
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AANTTCCCCCCCCCCCCCCCC
Sequence 6183
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Sequence 6184
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Sequence 6185
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Sequence 6186
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Sequence 6187
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Sequence 6188
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TCCTGCTCTCTTAAAAAATTCCAACACTTTTTATTTTTAATGNCTTTACCATAATCCCAT
ATTTNTTAAAAACTTTNTTCATTTTTTAAAAATAATCTTTACTTTTANCCTACCTAANGT
TTAAAA
Sequence 6189
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CACAAATTCTGCTGAGTCCCCGTCACAGACTACTTCTGAAGGTCACCAGTGAGGGCCTAA
ACAAGAGTCCACTTCTTGTTAGTATAATAACTTTTTATTTGACATCTACAAGATTTTGGC
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CTCTGCAACCTGATAGGATTTGGCTAC
Sequence 6190
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TGTGCCAAATACCAAGCTACTAGCCATGGCTATTTGCCAACCTGGCAATAGCACCCAAGG
GCACAAAGGACCCGATAGCAAGTCTTCCTCCTGCTTTAAGAGTTGACAAAGAGATGTGGT
TATG
Sequence 6191
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TTGACANGAAGAGCANAAGAGGGAAGGAAAGACATG
Sequence 6192
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Sequence 6193
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Sequence 6194
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CTTCAGATTTAAAATAAAAAGAAAGAAAAAGCAGAAGCAGTGAGCATCGACATCAACTGT
ACCTGCCCGGGCGGCCCGCTCGAAAGGG
Sequence 6195
CCCTTAGCGTGGTCGCGGCCGAGGNACTTTNTTTTTTTTTTTTTTTTTTTNTTTTTCCGC
TATTTCTCTTTTCTTCTTTTCATTCTCTAATTGTGCCCTTAAAAGGAATTGCAATTGCTG
TTACAAATTAATACACAAAAATATTATTCATGTGATGGAATACTACTCTGCCATAAAAAG
TAACAAAATAATGTNTTTTGCAGCAACTTGGATGAAGCTGGAGGCCATGATTNTAAGTGA
AGTAACTCAAAACATACAAATGCCACCCGCGTAC
Sequence 6196
CCCTTAGCGTGGTCGCGGCCGAGGTACTCAGTAAATACTAAGTTTTCCCCCAGGTTCTAA
GTTTTCTGTAATGCATCATTTTACTTTTACCATTAAAAAATGTTTTATTGTTAAGCTGCT
CTATTTCTGAAAAACCCTCTTACGATCATACACATAGAAAATATAAAAGAATTGACAAAA
TAACTCCTGGAACCAATAAGCAATTATAGCAAAGTTGTAGCATACAAGGTTAATATACAA
AGGTCCAGTGGCTTTCCTATATATCAGTAATGAACAAGAGACATTTGAAATTAAAAACAT
ATTGCTGTTTACATTAGCATCAAAATAAATGAAATATTTAGCTATAAATCTATCAAAATA
TGTATAAGGTCTATATGAAGAGCAAAAACTCTGATGAAAGGTATCAAAGAAGAACTAAAT
AAATGAAGAGATAATCCATGTTCATGAAGAGGAGAACTCAATATTGTCAAGATGTCAGTG
CGTCCCAGCTTGTTCTAATGCAATTCCAATCAAAATCCCAGGAAGTTATTTTGTGGATAT
CAACAAAAGTAATTTGAAACTTCCTATGAAAAAACAAACGACTCAGAATAGCAAACCCAA
TATCGAAGGGAAAGAATAGAGCCAGGAGGACTGAAATCACTTGAGTTCAAGACTTACTAT
GAAGCCNCAGTGATCAAGACAATGTGGTTTTGGNCCAAAAAAAA
Sequence 6197
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAAGGTATACTACTGGACATTTCTATTTTTT
TAAGTGTATTCTTTTTCTGACTTACAGTAAAATTTCAGGAAGTTGATAGATACTAAGAAC
TTATGATTGGTCTCAGAGGTAACAATGAAATACTCATAATTTTGTCTGTGGAACTCTGGC
AGAATTATGTTACACATTTGGCGAAGTTGTCTCTTGTAATTTATATTTTAAATGAAAAAG
TATTTTAGAGCTTTTAATGAAGGGGAAGAGTATAAACTTTCTTTCATATTCACTCTGTAG
TTACAGACCGTCTCATAAATCAAGATTGTGCATTATTAGAGTTCTCAGAGACAGGATACT
TCCATATGGACCCCTGTTCATTTTTCTTATTTACTAGATATTTTGCTAAATTTAGCACAC
TAGCAATTAAGAAGTTTAAAAAAAGAAGAAACGTTATAGGAAAGGGAAACTG
Sequence 6198
GATGGATATCTTGCAGAAATTTCCGCCCCCCTTTTTAAAGCCCNGGTTTGGGGGGTTTCC
GCCGGGCCCGAAGGTACCAGNNGGGTTCCCTTTTTTTNAAAAANGNTTNGGNAACTTTTT
TAAAAANTTNNANCCNTGGGNTTTTTNAACTTNCCCCTNGGTTTTTTTTAAAAAAATTTT
TNNAAAAAAAANNCCCCCCCCCNAAAAAAANNNNNNCCCNNNTTTTTNTNNNNNNNNNCN
NNNNNAAAGGGCCCAAAAAAAAAAAAAAAAATGGGGTNCCCCCCCANCCCNNCCNTNAAA
AAAAGGGGGGGGGG
Sequence 6199
NCCCTTAGCGTGGTCGCGGCCGAGGNACCAGGGTNANNAAGCATGTGGTTCATCCTTTGG
AAATGGTAGTAGGAAACCATACAGTCTTTTGGCATTTNGAGCTACATAAAGGAACTTGNA
GTTTGTTTTNCCAGAAAGACNGTGGCAAGCAAGCNTGANATGGAAAGGTGAGTCTTTTAN
TATCCGNGGGAGAGGGCATTGCTTTGGCTTTTTCC
Sequence 6200
CGGCCGAGGTACGCGGGGACTGGAGACACTGANTAAGCAGGGGCCCTTAAGAGTCTTGTT
TGCCAAACAGATTTGCAGATCAAGGAGACCCANNAATTTCAAAGAAGCGCTATTANAGGT
NTCTTGAGATCCTTTCACTANCTACATTCCTCANGGTAAGAAGGAAAGANTGGCTTTCC
Sequence 6201

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CCCTTAGCGTGGTCGCGGCCGAGGTACTATCAAATACTAGGTCTTATTATTCTTTCTAAC
TATTTTTATTTTGATACAAGTCTTTCAGGTCTGTCTTAAAGTCATAGGATGCTAAGGGCT
AAAAAGGCCCAGAGAGAGCAGTAAGTTGCCCAAATTTGCCCAACTAGAGAGGGGCAGAAT
TCAAATGAGAACCCGGGTTTCTGATGCCAAGCTGCCTCCTCCCGCGTACCTGCCCGGGCG
GCCGCTCGAAAGGG

Sequence 6202

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACCTGACTCGACCTTNACCAGATAGAGAGCT
GGTCATTAAGTGTGAACAAGCTGACTTGAATGTTTCANGACAGCTCCCTCCTCTGTAAAA
TGGGAATNATAACACTATTCTTAGGGAGA

Sequence 6203

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTTTCACTATTACAAATATATGATGTGAAAC
TAACAAACTCATGACCTTCAAAGGATGTGCTTCGTCCCACNGCACCACACATTTTGCNAA
TTTGGTGNTNCCCATTTNGGCTTAATTTTTCCCCCTTTTCTTTNCTANTAAAATACTTTT
CAAAAAATTTATTAATAAGGTNTAATTGGCAATATGGAGNTATNCCCNCGTAATNGCCAA
TTNATTCANCACTCNNTACNTTCANCNTNTTTTAATTCCTTCTANGGCCCNTTTCTTNCA
AATANCNTTTTTTGGCNCCAATTTTNCTAACTTTACCTTTNTGCCTTGGGGNNAAAANAT
TATAACCCCAAGGTCCNANCAANAACTAAAATTTTTCTNCAAGGCCCAAANCCAANAACC
TTTGGNCNTTAATTTCCACCCCCAANCCANANNCCCCACCCAAATTAAATCCAAAGGCCC
AATATTTTNATCCACCCCCCCAGGATCTTTTTTTTTTNANTAAACNCCCCTTGGGCNTAT
TTTGGGNAGGTNAAANTTTTNNCAGNGGTTTNGGCTTTTTTTTTTTTCA

Sequence 6204

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTGGGTCCTTTTCAAAAGTGGACTTCTAGA
CTCACCTGTTCTCACTCCTGTTTAATTCAACCCCACCCTGCCAATGCCAAATAATAGAAT
TGGCTCCCTACCAACTTGAACAAGGGAGGAGTCTGTGCAGTTTCTGACACTTGTTGTTGA
ACATGGCTAAATACAATGGGGTATCGCTGAGACTAAGTTGTAGAAATTAACAAATGTGCT
GCTTGGTTAAAANTGGCTACACTCATCTGACTCATTCTTAATTCTATTTAAGTTGGGTTG
GAATCTTGCCTAAGGTGCGTANTCCAACTCTTGGGAATTCCCCTCCTAATAAGTCATACC
TAGTAGTCATACCTCCCTGGGGGTAGTGGTANTCTCTTAAANCCTTTAAAGGTTTGCATT
NNANCNAGCCNNTAAAATANNGGAATGGGCTTNTNTTTGCTTGGAATACNAAAACNTNAA
ANAAATGGTGTTCATTNAGGAGAAAATTCTTACCCCCTGGAAGGATAAAAANCCCCAAAT
GGGGGNNACTGNAAAATAACNCCTAATGCCTTTAANAAATTNGGCCNCCCTTTNCCNCNA
GNGAACCCCNNTTAANCCNCGGGGGGCTTAAANNCCCATNANCNCCACCTGNAATTTTTA
ANGGAAAAAAAATTANTNCCNTTTTAAAAAAAANNTTAAAACCCNTTTTTAAAA

Sequence 6205

CCCTTAGCGTGGTCGCGGCCGAGGTACTCGGGGANAGNATTCTAATCCAANCAAGGNGNC
TCAAAACCTACTATTNTGACTGCACANCNTNANAAGGCTGNNGNTAGGATAAACAAAGTC
AAACANCTTTATTTTNTCTAGGACCCCTGGGAACTTTT

Sequence 6206

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCCCTCACAGCTGCCCTGTGAGGTGGGT
GCCATTACTGTCCTCTTATTATAGATTGGGAAACGGAGGCTCCGAGGTGCCAGAGCTTGC
AAACCGATGGAGGTTGGCCAGACTTCATGAGCCACACTCTGAATATTCCNTTTGAGGCAC
AAACAACAGAATCAANAAGGAGGCCACGCGCGGGGGCTNACACCTGCAATCCCAACACTT
TTGGGAAGGCCNANGCAANAAAGNGATCNACTTTNTAGGGTTNANNGAGTTTNAANAACC
NAGCCTTANCCCCAAANATTGGGTATAAAACCCCCCATTTTTNTTACTTAAAAAAA

Sequence 6207

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTGGTTTATCAATGGGACGTTCCAGCAATCC
ACACAAGAGCTCTTTATCCCCAACATCACTGTGAATAATAGCGGATCCTATATGTGCCAA
GCCCATAACTCAGCCACTGGCCTCAATAGGACCACAGTCACGATGATCACAGTCTCTGGA
AGTGCTCCTGTCCTCTCANCTGTGGCCACCGTCGGCATCACGATTGGAGTGCTGGCCAGG
GTNGGCTCTGATATANCAGCCCTGGTGTATTTTCGATATTTCAGGAAGACTGGCAGATTG
GACCAGACCCTGAATTCTTCTAGCTCCTCCAATCCCATTTTTATCCCATGGGAACCACTA

TABLE 1A
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AAAACAAGGTTCTGCTCTGCTTCCTGAAAGCCCTATATTGCCTGGGANATGGACCAACCT
CAAATGGNAAAATTTTAAAAGGGAAAAACCCCTTCATGGCCTTGAGGGTGNTGTGCCCAC
TNCAGAAGACNTTCACCCTAACTTANAAGACAAGGCCNAACTTGCAAAAACCNATTGGTT
GAGAAAAATTGAACGANTTTCACAACTATTGGNACAGCTTTTTNCCCAAAGNATNTTNCA
AACAAAGAANTCCTTTANTNAATGGANANTGGGGTTTTTTACCCCCCT

Sequence 6208
CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGGAGTCCTGAGCTGCGTCCCGGAGCCCA
CGGTGGTCATGGCTGCCAGAGCGCTCTGCATGCTGGGGCTGGCCTGGCCTTGCTGTCCTC
CAGCTCTGCTGAGGAGTACTTTTTTTTTTTTTTTTTTTTTGACAGAGTCTCACTCTGTCA
CCTAGGCTGGAGTGCAGTAGTGTGATCTTGGCTCACTGCAACCTCCACCTCCTGGGGTTC
AAGTGATTCTCCTGCCTCANCCTCCTGAGTAGCTGGGATTACAGGCGCCCACCACCATGC
CTGGCTAATTTTTGTATTTTCTAATANAGACGGGGTTTCACCATGTTGGCCAAGGCTAAG
TCTCAAACTCCTGACATCAGGTGATCCGCCCTCCTTGGCCTCCCAAAGTGCTGGGATTAC
AGGTGTGAGCCACTGCGCCCAGCCTACAGCTCATTTCTTTTTATCTCTGCATAATATCCC
ATTGGATGAATGTACCTGCC

Sequence 6209
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATACCATTGCACTTACTTTGAAGAAG
AGATGCTGAATATTATTAAACCATTGTGTTCCCTGGTGGGCTGATGGACTGTGATTTTAT
AAGGTGGTCTCAGCCAATTGCAGCAGCTGTTCCCTGTCAGAGGGGCTAGAGGTTTGGTGA
GAGCAGTGGATGAGGTGCAGTGGTGTGTTTGTTCACTAGAAGCAAGTGGGAGAAAGCTTT
GCCTCTTTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 6210
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGCAGTTGCCAAGCAACGAGTGTAAACA
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GTATCTGCAGAACTGGTCTCCCACTAAGCCAACAAAAGAGAGCATCTCTTCTCATGAAGG
CTACACTCAAATTATTGCCAACGATCGTGGTCATCTACTGCCTTCTGTGCCCCGTTCCAA
GGCAAATCCTTGGGGTTCCTTCATGGGCACCTGGCAAATGCCTCTGAAGATACCCCCTGC
TCGGGTGACCCTGACCTCCCGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 6211
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TGTGTTCTTCTTTGTGCATCAGCACATCATAAAAATTTATTCTAGTGTTGTTGATGTTAA
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CTTTATTGTTAAGTATCTTTATGTAGCTAATAAACTATCACATTTAATCTGGCACCTGCC
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GCTTCTTTATCTTTGGTTTACAGGACCAAAAAAATTTGGGGAAAAAACACCAATCCTCTT
TNACTTTACCTGAAATGGTCTTGACAAAAAAAGTCNTTTCTGGGGGTCAAAAAACATTTG
GCNATTTGCNTAGGTACCCCTTTGGTTAGGAAATTTTTAAAAAAAACCNCANACNTTTTT
ATTTCCNAGAATCTTTTTGGG

Sequence 6212
CCCTTAGCGTGGTCNCGGCCGANGTACACAATGGTTTATTAAAGGAATGTTTGGCCCACA
TCAACCTANCNTGGNTTCTACTGGGTAAACNTTCCCATGGCCNAAGGAAAAACAAGCCNG
ANTTGANTGACTGGGGGTGGGGTGCAGGCAATGAANANAGGNCATAAGGGTGTATAAANT
AAGGGGGC

Sequence 6213
CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTAACTAATGAGACAAGATTCANAAATCTN
AAGCAACTTGCCCAAGGGCATGTGGAGGAGGTTTATTTAAATGTAACCTCATTGAAAAAT
TGAANNTTAAATTGGACTTNTTANAACACACATACNCNGGAAAACAACCATAAATATAAN
GANAAATGCNGAAAAATGGAAAATGAGATGACTCCAGGGATAAGGTATAATAATAATTTC
ATGTTATAANAAATAAAAAGTGAGCCACTCTGACAGTCATTTTGGTCAATGAGGGGAAAG

TABLE 1A
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TGACCTTTATTAAAATTNACATTTTNCATTACATTNAANTCAGATTAAATTGCTTGGGAA
CTNAGATTTTTCCCGGNTTTGTTCTGAGCCCTTTAA
Sequence 6214
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGGAAAACCACTTTCATATCCGCTGGAAATTC
ATGTAAAAGTTAAAGATATTAATGATAATCCACCTACATGTCCGTCACCAGTAACCGTAT
TTGAGGTCCAGGAGAATGAACGACTGGGTAACAGTATCGGGACCCTTACTGCACATGACA
GGGATGAAGAAAATACTGCCAACAGTTTTCTAAACTACAGGATTGTGGAGCAAACTCCCA
AACTTCCCATGGATGGACTCTTCCTAATCCAAACCTATGCTGGAATGTTACAGTTAGCTA
AACAGTCCTTGAAGAAGCAAGATACTCCTCAGTACAGAAGGTAGAAGTGAGTAACTTTTT
TCTTGCTCCAGAGCAATCCCTGAGTAACTAAGCCTGCATTATTAACTTACATGACCAAAT
TATTCATAAAATTAATTTTTGATAAATACAGAGTGAGAACAAAGAAAATTGAAAAATCTT
ACCGAATATATATGTATATCATCCGGGTTGGAATCAATATAGAAAATTATCTCTATTCAG
TTATAAAACATACTTTTTAGGAAACTAACANTAAATGTGGGCCATGTGGNGGGACCNCAA
CATTCNTTNAAAAA
Sequence 6215
TTTCGAGCGGCCGCCCGGGCAGGTACTAAGGATCAACCAGGTTTGGGAAGCCCAAGGACA
GATATATGCNNNCNNAAATCATTTCTAATNCTGCCATTTCATGCTTTCTTGGGCTTTCTG
AGGAGATTCCTTGCCACTTCTGTGGGGAAAACA
Sequence 6216
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGAAGAGATAGTGCTAATATAGTAAAAA
CAAAAATCCACATGAACTACAGCAAAATTTTTAAAAAGTTGAATTTCACCAGGGACTTGG
AATCCATTAGAAAACCATCAAAGGGAAATCCTAAACCTAAAAACTATAATAAAAATTAAG
AACTCAAAAGATAGTCTTAATGGGAGATTAGTGAAAACAGAACAGAGGATTCTTAAAATG
GAAGACTGGTTACTAGAAAGCATCCAAATGAATACACAAAAAAAAAAAAAAAAAAAAGA
ATGGAAACAGAATAGAGTGCAAAAGACATATGTAATCCAGTGGAAAGGCCTAAAAAAAAA
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TTCAAGACCAGCCTGGCCAACAGCTGAAACTCTGTCTTTTATTAAAAAATCCC
Sequence 6217
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAAGGATGTGGGTAGAACTACAATTGTGCA
TTCAGACATGATAATTCCTACTAACTGGGGGTAGGAGGGCCCACAGGAGTGTAGACTAGA
AGTAGAAAGAATGAGGAAAATAAGTCTTTTGTAGCTGTATGGCGATTGAAGAGGAGATAA
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CAAAATCTTTCAATGTCCCTAGGAATAAAGTTGCCCTGAGTAGGGCCACTCAGGATGACG
CCAGATGATATCCCTTATTATAGTTTTAGGGGAANCTCTTCCTACCTTCGCCAGTCCTGC
AGTGAAAAAATGTACCTCGGCCGCGACCACGCTAAGGGCGAATT
Sequence 6218
NCCTTAGCGTGGTCGCGGCCGAGGTACCCACCACCACTGTATGANGCTCATGAGCTCTGG
CATGCCATGAAGGGAGTANGGCACTGATGAGAATTGCCTCATTGAAATACTAGCNTTCAA
GAACAAATGGAGAAATTTTCCATGANGCCGAAGAAGCCTACTTGCTTGCAATACAAGCAA
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TCAANNAGTATTAACNTTCTTTCAATGGAAAACCTTTTGGGTTCCCCAN
Sequence 6219
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TACATTCATGAGATGGATGGGATGGGATATGGGATGGGATGGAATGGGAGACAATGGGAT
GGGATAATATGTTTAATGGAAAAGATAATAAGCTCAAGGACTAAGCCCTGTGGCCCTCAG
TTAGAGGTTTAAATAATAGANGGAATGGCCNGAANTGTGGAAAATAAACTAGTGAATTGT
GGTCCCGCGTACCTGCCCGGGCGGTCGATTCNAAAGGGCGAANTTCCAACACACTGGCGG
CCCGTATACTAGGTGGATTCCAGAGCTTCNGTTCNCAATNCTTGGCGTAANTCATTGGTC
ATTAGCNTGTNNTCCTGTGTGGAAAATTGNTATNCCGCTTCAACNATTTCCNACACCAAA
CNTTTCTGANGCTCGGGAANGCATTAANANTTNTNAAANNCCTCGNGGGNGGCCCTANAT
NGAAGTGANCCTAAACCTTCAACATTTTTATTTGGCGTTTTNNNCTTTANNTTGGTNCCG

TABLE 1A

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CCTTTTTTTTAGTGNGGGGAATACTCTNTNTCTTGCCCCNTCNTGCNTTTTAAAGAAATTN
GGGCCCCACCTNCTCNCCCTAAGGTGAAGCNCNTTTGAAGCCCAGTGGGNGCCTAAATGC
CTTNATTANTTTTAAACTTGAANANGCCCNCNCCCCNACCNCCCNAATCCCANTTTNNAA
AAACCCTTAAAAACCCNATTTTTAAAA

Sequence 6220

NCCCTTAGCGTGGTCGCGGCCGAGGTACTCTNACCTTCATTCTTCAATTCAGTCCAGGAA
ACCATGCTGTTTCTCTATCAAGAAGNAAGACAGAGATTTTTAAACAGATGTTAACCAAGA
GGGGACTCCTNNGGCACATGCTTAGCACCATATTGGGGCNNTCCNAGCCTTNGGGGCCTN
GGAACACACACATTCGGNGTGCTCTGTTGCATGTGAGCTTGNGGGTTAGAGGAACAAATN
TCTAGACATTCAATCTTCACTCTTTCAATTGTGCATTCATTTAATAAATAGATACTGAAC
ACAAAANATNAAATGCCTAAAAAGGTNCNCNNATNTCATTTAAACCCCNTGACAACATTT
GGGAGGACAGATTCTTCCATTTNTNATCATTTTTACATATTGAAGGAAGAGGGGGGGTTC
AAAAAAAAAG

Sequence 6221

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTATTCTTAATTATTCCACTTCTGAGAGACT
TATTTGACTGACCCAAGCCAGCTCTAGAAACATTTGAAGCCTCATGTTTCCGTCTGGCCT
GGAGGACGCTGAGCTTACAGAATTCCAAGCCAACGCAGAGACTTTTCTTTAGAATTGAGA
TGAGGAGCGTGGTGTTTATTTATTTATTTTTTTTTTCGNTTTTGGGTATTTTGTTTTTTT
TTCCTACANACTTGNGTTTCAGGAAAAAATAATCAGTGTCAGGCAATTGTTTTCAGGGAG
TGTGGTCTTCTGTTGTATGTTTTTAAAACTTCAG

Sequence 6222

GATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTNNTTTTTTTTT
TTTTTTTTTTTTTTNCGGGCCTAACTGTGTTTGGATTTCTTATTGGGAGTGTTGTTCAGC
ATATGCAAAAAAACANATGCCATTACCGGCGTTTTATATAAAANATGCCATCTTCTCAGG
ANAAAACATAGCCCCANACTCTTCTTTCATTTGTCTNATACCGATTCTCTTTTTCTTTTT
CTTCCTTTATTCTCTGNCTAACTGGGTTTGGATTTCTTATTGGGCCCGCGTACCTTTTTT
TTTTTTTTTTTTTT

Sequence 6223

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGTNATTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTCAAAATTANAAAGNGGNTTATTTGCAATTTACATG
GANTCCTNTACTTTGGGAGGGTTAGTNTAATTGAAATGTNTTGCAATTTTCA

Sequence 6224

CCCTTAGCGTGGTCGCGGCCGAGGTACCCGGTTAACTGCCAGGTGGGTGACAGTGATGCC
AGGCTCGCCCACTACTGCACTGGACACAGCCTCACCAATGCCACCTTCATAATAATGGTC
CTCCACGGTGAGGATCCTGCCCTTGGTGGCACGAGCGCTGTCGAGAATGAGTTTTCTGTC
CAGGGGCTTGATGGTGAAGGGGTCCAGCACGCGGATGTTGATCTTTTCTTTCTTCAGCAA
GTTCGGTAGCCGCGTACTGTTTTCTAACTGAATAATCATGAGCACATTACTTAACCTCTC
AGAGGCTTAATTTCTTTATCTATACATGGGGTCAATAACGTTCTCGTGTTGAG

Sequence 6225

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTC
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TAACAGTATTTTTTNAAACCTTTTCCTTTATATTCTTGAACATNTTATAATTATTTCAAA
GTCCCTTG

Sequence 6226

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TNAAAAATTTTNCCNANATTNNGGNCCCCCCNNANGGNAAAAAAAAAAATTTTTTTTNTT
TTTTTNCAAAAAANTTTTTTNTTAAAAAAANTANAAANGNNNGTTTATNTAAAAAAAAAA
AAANTTTTTAAAAAANGGGNAAAAAAAATTTTAAAAANTTTTAAAANTTTTTAAAAAAAA

TABLE 1A
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NTNNAAAAAANNNNGGGGAAAAANTTTTNAAAAAANNGGGAAATTTNTAAATAAANAAAA
AAANNGTNNNNAAAAAAAAANAAAAAAAANNNNGGGGGNTTTTTAAAAAAAANTTTTTTT
TTTANAAGNNNNTTTTTGNNNAAAAAACCCNTTNGGGGGGGGNNATNAAAAAAAAAAAA
AGGGGGGGNNNTTANNTTTTTTTNTNAANNTTTTTTTAAAAAAAAATGNTGGGGNNAAAA
AAAAAAAANAAANTTTTCCNNNGNAAAAAAAATTTT
Sequence 6227
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GATAGGCCTTCCAGGGCTGACCAGTTTGAGTATGTAATGTATGGAAAAGTGTACAGCATG
TGGAGCTGGAGAGAGGAGTGGGCAGCAGTGTAGATAAACAGGCCTGGCCGTGTGTGGATG
GGTTGTCAGGGCTGAGTGGAGTTGCAAAGGGATTTATTATACCATGATCTCTGCTTGTGC
ATATGTTTGGAGATTTTCATAATCAAATGTGAAAATTTTTTGATTTTCATAATCAAAAAT
CAATACAAAATATGAATGTATAACGTAATTCCTCCATCATGACGGTGG
Sequence 6228
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTA
CATAATCGGAGGTGCAGAATCTTGGAATTGTCTGAACACAGTAGAACGATACAATCCTGA
AAATAATACCTGGACTTTAATTGCACCCATGAATGTGGCTAGGCGAGGAGCTGGAGTGGC
TGTTCTTAATGGAAAAC
Sequence 6229
CCCTTAGCGTGGTCGCGGCCGAGGTACAATGTTTAATAAAAGTGATGAGAGTAGATATCT
TTACCTTGTTCTCAATTTTAGGAAGACATAGATTTTTGTGTAGATGGCCTGCATCCTATG
AGGACTCTTCATTTTATCCCCGGTTTTCTGAGGGCCTTTAATCATGACTCAATGTTGGGT
TTTACTAAGTGCTTTTTCTATTAAGATGATCATATGCATTTTTCTTTTTAGTCCACTAAT
ATGGTAAAGTTCATTTATTGATTTTTGAATGTTAAATCAACTTTATCTTCCTGCAATAAA
GTACCTGCCCGGGCGGCCGCTCGAAGGG
Sequence 6230
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNNTTTTTTTTTTTTTTTTTNN
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TTNNAAATNGGGNTTNGANNTTAAAGGNAAAANNNCNNAAANNTTTTTTNNNAATTTTTT
TAAAANCCNAAAANCCNTTTTNNTTNCCCCNGGGGGGTTCNNAANNNNGGCCTNNNAAAA
AAAAAANNTTAAAANATTTTTTTNNNNNNCGNCCNAAAAAAAAAAAANAAAATTTTTTTT
Sequence 6231
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GGTAAGAGAAGGAATTTGGGATGGGATTGGGTATAATGGACAGTTATGCAGGGAAATGAG
AAATATCAATGGACCAGACCACCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGG
Sequence 6232
CTTTTAGATTAAAATGAANGGNGACTTAAAACAGCTTNAAAGTTTTAGTTTAAAAGTTTG
TAGGTGATTTAAATAATTTTGAAGGCGATCTTTTTAAAAAAGANATTAAACCNAAAGGTG
ATTNAAANGACCTTTGAAATCCATGACCCCAGGGAGAATTTGCCNTTATTTGAAAGNCCT
AGTTTAAACGCCATTTTACTTAAACGCAAGACCGAAAATGGGAAAAGATTAAATTTGGGG
GAGTGGTTAGGATTGAAAACAATTTTTNGGAAGAAAGAATACGAAAGTTTTGGAAAGTTG
GGAAAAACCTGGGAAAGNACAAGANAGGTTTTCANGNTNTTTNNACNTCCTGGNAAATGT
NCTATATTNGNTAACCTTNNGGCCCNGGGGAACCCACCNCCTAAAGGGGCCGGANATTTC
CCCNNNCCACCACNTTTGGNNGGGCCCGGTTTTNCTTNGGTNGGGAATCCCGNAGCCTNT
GGNTACCCAAANCTTTTGGNNGGTAAAATCNNTNGGNGCCATTAGCCTTNGCGTCTCCCC
NGNGNNGAAAAANTTTGGTTTTNTTCCCGGGTTTAANNAAATTTNGAAAAAAAANCACTC
ACCCCCCCCCCCCCCCCCCCTTTTTTTTTTTTCCCCCCCNTTTGTNNGTTTTNTTTTACCN
GANGGGGNCCCCCCCCCCCCCCCTTTTCCCCCCCCCCCTNGGGTCCCCCCCCCCCCCCCC
TTTTTTNTTTTTGANANACCCCCCCC

TABLE 1A
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Sequence 6233
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAACGAGGACCGGTCTGGCTTAGCATCCACT
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ATCGTTCCCACGGCGGTAGGGCGGCTGGGACTGGCACAGTCTCTCTCCGTCGCTCCGCAG
CAAGGGTCTGGGGCCCCTTTAGCGAAAGCGAAACTAAAAGTCTCCCCCGCGTACCTTTTA
CGCTGCCAGAATGAATGTAGGGCTGCTATGCCAGCTAGCATATTACCCTTTTTACTGNCC
TCACCGCAGTTCAGTGTTTGCCAAAGTGTGAACCAGAACTGCTTGTATCACANAATCTNT
TGGGACAGGGCCTGGCGTTCTTAATTTTAAAA
Sequence 6234
CCCTTAGCGTGGTCGCGGCCGAGGTACTACCTATTAACTTTGATGGAGAAAGATTCCCTG
TATCACTTTCATATTTTAAGGGGAAGGTTTCAGTTTCTTCTTAGTAGTTTTTCTAAGCCA
GCACTGAATTCGAGGAACTCTGATTTGGGTTGAACAATTGTTTCCCTCACAATTTCTTCC
ACTTCCTGAGGGAGGCCTTTGCCATATTGAGCAACAATGGAAGCAAATGAGCTAAGCGTC
TGGTCTGATGGAGACATTTGGGCAGCTAAATAAGATCCAACTTCATGAGTTTTATCAGGA
ACTACATTGGAGGAATAAAAATCCTTCCTGTCTGGAACTATGGTGTCCATCGTAGCCCAT
GGTGACCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAACACACTGGCGG
CCG
Sequence 6235
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGCCTCGCTGATCCGTTCCGTGGTCGCCCTG
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AAAGAAGAGAGCAAAAAGGATAGGAAAGAGGACAAGGAGAAAGATAAAGATAAGGAAAAG
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TGAAANCCNCTTCTTGGGCCCATGCTTAAANTTTTCTTTTNTTTTAAACCCTAAA
Sequence 6236
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GNTCCGCCACCCNCCGCAGTNCTCTTGAATACAAGTTNCTGATACCACTGCACTGGGCTG
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ATTTT
Sequence 6237
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GTCACTCCTTTACTTTCTTTT
Sequence 6238
CCCTTTCGAGCGGCCGCCCGGGCANGGTACGCGGGTGAGCCTTGGTNGGAAGGAACCTCT
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CCCATTCTTTTTTGATCCCACAGGAAGCTTGTGGGTTGGGTCCGGCCCGTAACCCCCCGG
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Sequence 6239
NCCGCNAGTGGTGGATGGGNTATCTGCANAATTCGCCCTTTCGAGCGGCCGCCCGGGCAG
GTACTTTTTTTTTTTTTTTTTTAATTTTTTAAATCTCTATGGCATATTTTTCCAATTTCTG
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Sequence 6240
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AATTGGCCAACAGCGTGGTGCTGACAAGTATATTTGTTAATGGAGTGCTTCTTTCACCAG
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Sequence 6241
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Sequence 6242
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Sequence 6243
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Sequence 6245
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Sequence 6246
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CGNTTCCATGCCGTGAGGTCCATTCACAGAA
Sequence 6247
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Sequence 6250
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Sequence 6252
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Sequence 6253
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Sequence 6254
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Sequence 6255
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Sequence 6257
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Sequence 6259
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Sequence 6260
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ATATTTGCTCAGACATGATGTGTTTCAACACCACTGGCACCCAAGTGCAAAACATTACGG
TGACCCAGTACCTCGGCCGCGACCACGCTAAGGG
Sequence 6261
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TGCAGTGCCCTCATTGTGAACCTCTGCTAGGGCAGTGTGGAAGGGAAATGTGGGGTTGGA
GCCCCCACACAGAGTCCCCACTGTGGTACTGTGCAGGTGGGTTAGAGGCTGCGTGGCAGG
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ATC
Sequence 6262
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CTAAGGGCGAATTCCAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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CACACAACATACTA
Sequence 6263
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AAACCCTTGAA
Sequence 6264
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Sequence 6269
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Sequence 6270
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GACCACGCTAAGGG
Sequence 6271
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Sequence 6272
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Sequence 6273
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CAGCACACTGGGCGCCGTTTACTAGTGGGAAT
Sequence 6276
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Sequence 6277
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Sequence 6278
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ACCTGTGGTCTCAGCTACTTGGGAGGGTGGGT
Sequence 6279
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TGGACCGCATCCTAGCCGCCGACTCACACAAGGCAGAGTTGCCATGGAGAAAATTCCAGT
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ACCTGGAGCCAAAAAGGACACAAAGGACTCTCGACCCAAACTGCCCNAAGACCCTCTCCA
GAGGTTGGGGTGACCAACTTCATCTGGACTCAGACATATGAAGAAGCTCTATATAAATCC
CAAGACAAGCAACAAAACCCTTGGATGATTATTTCATCACTTGGATGAGTGCCCACACAA
GTCAAGCTTTAAAGAAAGTGTTTGGCTGAAAATAAAGAAAT
Sequence 6280
CCCTTTCNAGCGGCCGCCCGGGCNGGTACTCTTGGTTTGTCAATGGGACTTTCCAGCAAT
CCACCCAAGAGCTCTTTATCCCCAACATCACTGTGAATAATGNNGGANNCTATACCGTGC
CAAGC
Sequence 6281
TAGAAAGTTTAAATACAGAAATAATCTTGAAAGAAGGCAGANAAAAATGACACATTAACG
TATAGAAAAAAAATGACTACTGACATCATAAAAAATAATAAATGCCAGAACACAGTAGAA
ATACACATTGCAAGTGCTAAAAAAAGCTTTCAAATGAGATTATATGCTCCAAATATATCA
TTTAAGAATGAAAGCAAAATTACACTTTCAGTTATGATGGAGTAACAAGGACTACATATA

TABLE 1A
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CTTCAACTCTAAACAATAAGAAGACACAACTGNATTCATTCATTTCATTTAAGAAGACAA
GAGTCTGGCTTTTG
Sequence 6282
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGAGATAGAAAGACCAGTCCTTGCTGAAAG
ACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTAAGTCAACTTCAA
TGTCGGATGGATGAAACCCAGACACATAGCAATTCAGGAAATTTGACTTTCCATTCTCTG
CTGGATGACGTGAGTAAACCTGAATCTTTGGAGTACAATCTCATCCTTCCAAGCACGACT
ATGTGTAATGCTCTAAGACCTCTCAGCACGGGCGGAAGAAACTCCCGGAGAGCTCACCCA
AAAAACAAGGA
Sequence 6283
CCGAANTTTGGGGGCCCCTCTTAAANAAAAGGCCCATTTGGGNCCCTTTCCCGGAANACC
GGGCCCCGCCCAAGTTGGTTGAATGGGGANTTATTCCTTGGCAAAGAAAAAAAANTTTTT
TTCCNNGGGCCCCCTTTTTTCCGAAAGCCGGGCCCGCCCCCCGGGGGCCAGGGTTNCCCC
CNGGGGGNTTCNAAAAATTAACCGGGGAAGGGNCTTTTGGGGGNTATTTCTNNGGGGGGG
GGGG
Sequence 6284
CCCTTAGCGTGGTCGCGGCCGAGGTACAGATAGAAAAATGATGTATTATGAAAACAGTTA
TATGAAGGCTGGAGTAACTATATTAACATCAGATAAAATATGCTTCAAGACAAAAAGTAG
TNACAGAGATAAAAAGGGACATTTCATTATGAAAAAAAGTTTAATTCATTAGCAAGATAT
CACAATCATAAATATGTATGTGGTTAGCACAAAGTTAAAAATGCATGAAGCAAAAACTAA
TNGAAGTNAAAGAAGGAATAGACAATTTCACAACAAACATTAAAGATTATAACACTCTTC
TCCTGCCAATTAATAGAATAACTAGACAAAACATAATTATCCNGATTATCTGAAGATTAT
CAACCATCTTGNCTTTAATTGATATTTATAGCACAATTTGCAGAATACAA
Sequence 6285
CCCTTAGCGTGGTCGCGGCCGAGGTACTGGAGATGTATTTGATAACCAAGGTTTTAGGTA
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AATAACCCCTTTAGTGAACCTTTNTTTNTTTTAAAAAAAAAAGGCCTATTTTGGTTCCCG
NTTTTTGAAAAANATTATTTGTTTGNAAGGGAAAAAATNGGNAGGGGGANCTTTNNCTTA
ATTCCNCCCCCTTAATGGGAAAAAAAANAAANTNGGCCTTAAAAAGGAA
Sequence 6286
CCCTTAGCGTGGTCGCGGCCGAGGTACATTCAATTTAGGTTTTGGACACTTAGTTGGATA
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TTAAAACCACTTGGAAGGCCATCTCTATAAAAATGATTTTCCCAGGACAGTAACCAGATG
TAACCTAACCCAACACCATCTTAATTGGCAGAGGTTCAGTGGGCTGGAGTTTTGTGCTCC
TCCCCCACACCAAGTTTTTATAATACAAATGCCACAAGAAAAAGAACTTCGGTACACAAT
GGTTTATTAAAGGAATGTATGGCCCACATCAACCTAGCAAGGATTCTACTGGTAAACCTT
GCTATGGCCAAAGGAAAAACAAGCAGGAGTTGAGTGGCTGGGGTGGGGTNCAGGCAATGG
GAGAGAGGGGCAGAAGGGTGTAGAAGCTGAANGGGTCTTAGAAAGCTTACCTCCTGAGTT
TTCTTCCCTTTCTGNCCTTCNAAAATCTTTTACTTTCTTT
Sequence 6287
CCCTTAGCGTGGTCGCNGCCCGAGGTACCTTAATAGCTACCCAACAAGTCATTAACATAC
AAGAAACATGCATTTTNNAAGCAGGAAGCATCACCCATCCCTTCTNGCATATTAGCAACT
TGTNACTNCCTGAGCAACAGTGCTCACATCACTGAGGTCTGTGAACAGTCCTTTTTCGAT
TCATCCTGAGTGAAAGATGGGAATGACTTAAGTACCTGGCCCNGGGCCGGNCGGCTTCGA
AAAG
Sequence 6288
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATAGGAGTAAGTGTGGCAGCAATTTN
CCAGAAACTGTATATTATATTGAACCTGTGAGTCTTTACCATGTATATATATTTCCTTTT
TCATTCATATAACTNTAAAAAAATCAAATTTATTAATAACTAAGATAGTATCCTTCTTGA
CAGCAATGCATCAAAAACTTAGGCTGAAATTATTTTTAATTTTGCCTTACTTTCCTTTGG
AAATGGTATATTATGGTATAAGGTACCTCGGCCCGCGACCACGCTAAGGG

TABLE 1A

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Sequence 6289
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTAGTTTGCCTTAACCTACTTTTTGTTGTATT
TGTTTAATTTCTTCTACTGGATTATAATTCCCCTGAGTAGACAAGTATTTGTCTAACTAT
CTTAGAGTGCTGAGAAGAGTGTGTGGCTCAGACTATGGGTGTAATTCAGTTGACACATGG
TGCATGCCTATAAGGATATTCTGAGAGTGACAAAGTTAAGACAGACATCAGACGTAATTA
GTAAACACACATATTACACAGTTCCATATTATATATGAATGTAAAACATTCAGATAAGGA
ATATGCCCGCGTACCTGCCCGGGCGGCCCGNTCGAAAG
Sequence 6290
CCCTTTCGAGCGGCCGCCCGGCAGGTACTTATTATTTTTNTTTTTTATTTNTTTGCTNTA
NAGGGGGTNGAGGGGGGGCTATAAGGTAAATACNGGCCCTATTTAAAGATTTTTAGGGGA
ATT
Sequence 6291
CCCTTAGCGTGGTCGCGGCCGAGGTACTCGAATATATGCCAGCATGAAGTGCCCAGACCA
GAAGTGTCTATATACCTGTCAGATCAAGGATGGTGGTGTGCAGCCTCAGTTTGAAATTGT
TCCTGAAGATGACCCCCAGAATGCCATTGTCAGCTCTTCTGCAGATGCTTGTCATGCAGA
ACTGCTCAGGACTATAAGCACTACTATGGGGAAACTAATGCCTAACCTGCTTCCAGCTGG
AGCTGACTTTTTTGGATTTTCTCATCCAGCCATCCACAACCTGATCCAGAGCTGTCCAGG
AGCTCGAAAATGCATCAATTACCAGTGGGTGAAATTTGATGTGTGCAAACCTGGAGATGG
GCAGCTACCTGAGGGGCTGCCGG
Sequence 6292
CCCTTAGCGTGGTCGCGGCCGAGGAACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTACA
NAGTGGGAAACAACTTTAATGANAAACCCAGTTTCCCAGTTTCCCTTTCATTTCAAGACT
ATGACATTCCGACTTNTTTGAGGGCTTCCATTGCCTAGGNGGCCTTTTTNTTGTAGTTAG
GCATTNTTANAGCTNTGGGCATGGGCTTGTNTTGGCCAAAATGTCTTTTAGCAAAGTAAT
CATNTATGCCAATAGGCAAATAGTGAGCAAGGCANATCCACAANTAAGCNCCTTTCCCTG
GCGTGTAATAGGCAAAAGGGCTNTTCGCCAANATAGCATGCTGGATNTCCCGCANCACCG
GANAGAAGTCCTTGCTGGCTAACGAGTTGATCAATAGGAGGAAATTCCGCTGTGCTAAAA
TNTANTCCTGGCCCGTANTCTTTCCTGTACTATACAGCTTTATTTTAACCCCTATGGTGA
TTAAAAATTTAACAAANAATTTTTTTTTTTNTTTAAAAAAGGCATTTTTTTAGTTNGCTTT
TTCAANAATAATAACTTTTTACCTANTCCCGTTCTTTGNTTTTTTTTTAA
Sequence 6293
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCAACCAGCCTACAAGCTGGCACTTGCTAA
CAAATCAGAAATATGACAATTAATGATTAAAGACTGTGATTGCCACCTAAGAAAAAANNN
NNNGCTATNNNAAANAAAGTACTTGGGCTGGAAGGCCAAGACAGCACCANAAACTAGCAA
CATTTA
Sequence 6294
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACT
TTTTTTTTTTTTTTTTTTTTTTTTTGAGTCTTTCTTAAAAAACAAACAAATAAAAAACTCT
TCAACAAATCCTAAAGACCAGGAAATAAACATCTGCTGAGTTTTCTGCTCAGGGTCCATT
CATGATTTTTCTGGTAACAATACTGCCAGTTNCTTAGGGGGCAACCCCCTGACTCTAGAG
CCATGTAGCTTAGTGGAGTGAACCCC
Sequence 6295
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGATTCCAAAAAGTTGAGGAGAAGGGAC
TTCTCCCTAACTCATTCTATGAGGCCAGCATCATCCTGATACCTGGCAGAGATACAACAA
CAAAAACAAAAACTTCAGGCCAATATCCTTGATGAACATCAATGTAAAAATTCTCAAGAA
AATACTGGCAAATCAAATCCAGCAAGCACATCAAAAAGCTTATCCACCACAAGCAAGTAA
ACTTTCTCATGGTTATCAACCTTATGCAAGGTTGGTTAAACATACNCCAAATCAAGAAAT
GTGATTCATNNNCATAAACAGAACTAAAAGACAAAAAAGCACCATGATTTATCCCAATAG
ATGCAGAAAAGGGCTTTTTTCAATAAAA
Sequence 6296
CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTGACTTTGTCACCAATNCAAATCACAGCTG

TABLE 1A
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TTTTCGTATCACATTCTCATTGTTACAAATATCTTTAGATGTTTACATTCAACACAACTT
TGAAGTTGAAGCAATTATTCCCAATGCTAGACCTTGTTAGTTAATAATAAATAAGCCACC
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AAAGCCCAGTNTTGATGCTTAAAAAAACTGANGCCGGGCGCGGTGGCTCCCCCTGTAATC
CCANCGCTTTGGGAGGCCGAGGCGGGGGGATCACNGAGGTCAGGAGATCGGGACCATCCT
GGCCAACATGGTGAAACCCCGTCTNTAATAAAAATGCAAAAATTANCCGGGCGTGGAGGC
ACNCATCTGTAATCTCAGCTATTCAGGAGGCTNAGGAGGCAGGAGAATCACTTGAACCCA
GGANGCGGAGGTTGCANTGAGCTGAAATCACACCACCGCACTNCAACCTGGCAACAAGAN
TGAGACTTGGTATNAAAAATATATATTATTTTTTGGCNTCNNAAATAAANAATNGAANCT
GGCNAAANGGATAAAA

Sequence 6297
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTTTTTTTTTTTT
TTTTTTGAGACAGTCTCGCTCTGTCGCCCAGGCTGGAGTGCAGTGGCGCAATCTCGGCTC
ACTGCAACCTCCACCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTG
GGATTACGGGCGCCCGCCACCACGCCCGGCTAATTTTTTGTATTTTTAAGTAGANACAGG
GTTTCACCGTGTTAACCAGGATGGTCTCGATCTCCTGACCTTGTGATCCACCCACCTCGG
CCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCGGCCACATTCAGTTNTTA
TCAAAGAAATAACCCANACTTTAATCTTGAATGATACGATTATGCCCAATATTAAAGTAA
AAAATTTAAGAAAAGGGTATTCTTAAATAGATCTTAAGGCAAAATACCAGCTTGATGAAN
GGATTNTGANGCCTTNATTTNGTCANNCTTNTCCCAAAAACAANTAAAANAACCACTTTT
TTGTNGGGCAATTTNAAAATTTTAAAGGGNTNNAANTCCCAATTGATNNAAACAAACNNG
CCNGNAATTGAAAAAATTTGNTTTTTAAAAGGGGGGNTNTTTTAAAATGGNNGNNCCTTA
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ANTNNTCNAANNANTCCCAANGGNNANNNTTNNNNTTTAAAAAACAANNTNTNNATTAAA
GGNTTNAANCNAAAAAAA

Sequence 6298
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCACCCNNGATTGATAAATTCTGGGGTGCAT
AGCCATTGATGAAGAGGCTATCCCTGTCCAGGACATAGAAGCCCAGTTGGGTGACACCAT
GGGTCAGCTGACTCAGCTCCCAGTAAAGCTGCTGTATGTCCAGCCCGGGGCCCACAGGGT
CAGGGTGGTAGGTGCAGGTGGTGTCCACACCAGTGGCTGCCCCATCCTTCTCAGGCCTGA
GGGAGATCAGTTGGCAACCCAAGTAGAAGGGGCCCATGCTGCTCTTCTGGAACAAGGGTC
TGAGCAGGTGCTGAAGGACCCCCTCGGTGGAGTTGAATGTAGCTGAACCCTTGCCCATAT
CTGGTGAATACTGGAGATTGGAGATGGTGAAGTTGAGTGTGAGGGTCTTTCAGGTGGTAC
CTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCG

Sequence 6299
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTATGTGGTATCCATATTCGTTGCAAAAATGA
TAATTACTGGAATTTTCCAAACATCAANTGNGGGNNGATCAATGGGTTACCACTATCGTT
TTCAACCAATATACAGATGTTCGCTCAAGGTCTAGGGTTTATTTCTACATAGTAGTATTC
ACATGAGTTCCCTATTCTGAAGTATTATCAAAACGAGGACCCTTGAACCCGCGTCCCAAG
GGTGGTGGAGACCTCTAATTANGATATACTTCTGATCAGANGCTTCAGACATTAACCAAA
GAGAACTTGACCTTTTTACTGCAAAATATGGNCTTANTTATTTAAAAAAAAAA

Sequence 6300
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCAATCTGGGTGATAGAGCAAGACCTTGTC
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AGACAATTACTTGGGGTTTTGTTTCCTTTGTTTACCANTTTTCAGAATGAGTTGGTACCA
TCAGCCCTGGC

Sequence 6301
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAAGGAAGGAATTCCTCCTGATCAGCAG
AGACTGATCTTTGCTGGCAAGCAGCTGGAAGATGGACGTACCGAAGTATAGAGGGCTGCT
GTATTTGCAGAGCTAAGTCCTCCAGTTCTCGATTCACTGACAGTAAACGCTATGAAAAGG
ACTTCCAGAGCTGTTTTGGATTGCATGAGACTCGTTCAGGAGACATCTGCAATGCCTGTG

TABLE 1A
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TCCTGCTTGTGAAAAGATGGAAGAAGTTGCCAGCAGGATCAAAAAAAAACTGGAACCATG
TGGTAGATGCAAGGGCTGGA
Sequence 6302
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTCCTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAANNACCNT
TTTTAATTTTTAGGCCAATTTTGAGNAGTCAAAGNAANANCNNCCANTTTGNNTNGGGAG
CCNNGGCNNAATTGCAAAANCNTNTTTNAGGGGNCCGGGGGNGGGGGAANCCGACNTTTG
GNANNAANANCCNNGCNGGGNNCNGGNCCCTTTTANNAANCAGNCAAANCCCNNCAAAAG
GGGNNAAAATTCNNCNNNTTTTTTGGGGGGNNNCAANNGGNATTNAGAAAAAAACCCC
Sequence 6303
CGAACTTCAACTTNTTNAGGGGGGGCCGGGAAAAATATATTTTGGGGGGGGGGGGGGGGC
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GGNCCCGCCCAAGTTGGTTGGAATTGGGATTATTCTTGGGCCAAAAAAATTTCCGCCCCC
TTTTTTTCCGNAAGCCGGGGCCCCGNCCCCCGGGGGCCCAAGGGTTTACCCCCCCGGGGG
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CNNNNNNNNNGNGGNNNNNNNNNNNNNANAAAAAAAAAAAA
Sequence 6304
CGCCAGTGTGATGGATATTCTGCAGAATTCGCCCCTTTCGAGCCGGNCCGCCCGGGCCAG
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NTNNNNNTNNNNNNAAAAAAANCNACCCTTTTTTTTTTTGAAATTNNTTTTTAAAAGNGG
GGTTTTTNGGGGGGGGCGNNAANCCCTTNNAAAAANGNNAAAAACCCCTTTTTNTAACCT
TTGGGGGGGGGGGNAAAAATNAATTTTAATANNTCNNNAAAAGGGGGGGGGG
Sequence 6305
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAGACAGCAGAAGGATCACTGGGCTGG
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TACCCTGCTGTCTGAATGTCTCCTGGGACAACAGGAGGCTGCACTCACTGGCTGAGTTCA
GACAGAAGAGGGATCATCGGACTGGAAGCTCTGGCAGGTATGGCTAGCCTGGTTACCCGT
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CTGTGTCCACTGACAGTTCAGACAGAAGTGGAACCACTGGACCGGAAGCTCTAGCAAGTG
TTGCCCACCTGGCTACTAGTGAGCCTTGAAACCAGCGAAACAATTNATCAAAGAGCANTT
CTGTCA
Sequence 6306
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NAATTTTTTNTTANANANAAAAAAAANNTTTTTTTNTTT
Sequence 6307
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ANCCGGTGCGCTTACCAGAAAGCCGNCTGACACCATGGGAGGTGTGGGTTTATTGGCAAA
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AAAAGAAAAGAANTGGAAGAACCTTGAAAAAAGAAAGATAATTGCTGAAGAAAACNCAAG
GAATGGGTTTCAAAAANAAGAATTGGCCAAAANGGAAAGGAANGAGGAACCAAAAAATTA
TTAAAGAAATTGGGNGGAAAAAAGCCNCCAAANGGACCTGGAGNAAAGAATTCTTTCCAA
GAAAAAACCAAAAGAAAAATTTTCAAGAATGGGTTAAAGAAAAAAAA
Sequence 6308
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAACATATAAGAAACAAAAGTTCAATTT
TGCTTCAGAAATGCAAGGTAGGCCATTTGAATTTGTGACACGTGACAAAATGAGTTAACA
GTATGGTGGCTGAAATAATCCTTTGGTAATCATCACTTTATAGAAATATCTTTAATTGCT
AAAGGAAAGGGTAGACAAATTCTTCTCCGTTGCTTTTGGTCCAAGTAGGGCTTCTGATTA

TABLE 1A

ATACTGAAGAGCATTTAAAAAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 6309

GATATCTGCAGAATTCGCCCTTANCGTGGTCGCGGCCGAGGTACAAGANCATCCTTTAGT
CTAGGGCTAGATTTCCACTCTACCCAATGTCCCATGAATTATGAGGCTTTCCACTCTGGC
TGGTGGGAACAGGCACTATTCCTAGACCACTATTCCAAGCTTCCTAAATCTCGGCCAGAA
CAAATTCATTAATTTATTTAGAAAGATTTATTAAGCACCTTCATGTTAATAGCACTAAGG
ACTGTTCCCTCTCATCCTTTTAAAGTGGTTCTTTTCCCAGCATTATGTATCTTCTTCAT

Sequence 6310

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTATACAGGAGGCTGAAACAGAATGAAAGG
GTGAAAATTAGGTTTAATTTACTTAGGAAACAAGAAATAGAAAGTCATAGCTATAACACT
CCACTTTCAGGTGCCCATGAAGTAGCCTTCAATGGAGATTCCCCATAGTTGTTTCACAGC
ACAGTGTTAAAATTTTATTACAAGCCCTGTGTACCTGCCCGGGCGGCCGCTCGAAAGGGC
GAATTNCAGCACACTGGCGGCCCGTTACTAGTGGATCCCGAGCTCGG

Sequence 6311

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTATCAGTAACAATAATCATTTTCATGTTA
AAATTATTGTGTGCCACAGAGGTAACAAATATTCTTGTCAGTTGTGTCTTTTAACTATGG
CTTTCCTTAAAACTTCTTTTATTCATCAATAGACAATTGTCTTATTTTGTCTTGTTTTTA
ACCCTCTTTAAAAGGTTTACAATCAGATATAAAACTCTAACAAGTGCACTTAAATGCAGA
TTTTCTGATAACTTTGAAAATTGTGACATTGAAATAAAGGGAAAAATTTCAGAACTGTAA
TGGGAGAGCTGAAATGTTCATGACTATCAAACAGAACAGGAGTTAACTGAATTAATTGAA
CCCAACAGAAAACCCTAAGTTATCTTTT

Sequence 6312

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATACTATCAGTGTGACTTATTACTGTTAGTG
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TCCCCCTTTCCATATGTAATTTTTGGAAGGAAGTCACTATTCANCTCACACTANAGAAGT
AGGAAGTTCTGCTCCATATCCTTGAGGGCAGAGTTCATAAATTATTTGGAATTCTTCTTC
ATGGGAGATTCATCTATTCTACCCCATTTATTAATGTATTCAATTTTCTGGCACTACAAG
AATATATATATATATTTTTGTAATCGACTTTAAAATAATTAGGAAAATGATAGAACATTT
TAATATAAGAACAAGATATGGTAAATTGATGAATATTATTAGACATTATCAGTAACAAGA
GCTTTGTATCTTAAGTTGTTTTGAGTT

Sequence 6313

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TTTTTTTTNTNTTTTTTTTTTTTTTTTTTTTTTTTTTTGGACCTTAACTTTCTATTTTTTA
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AAGGNGGGNTNAANGNGNNNTTGGGNTTTTTTTTTTNGGNCCNNGGAANNTTTAAANTTT
TATNATTNNCCNGGNAAAAAANTTTTTTTTTGA

Sequence 6314

CCCTTAGCGTGGTCCGCGGCCGAGGTACAAGNGGTGGCCACANAAGTAGGGGGGNNAGCC
NAAGCTCTCTTACTTTATGCTAACCNGCTAAATCTGATCATTATTTNAGANGGGNAACAG
CNTGAAACTAAAAATTGATATANGGCCCTACTACACTGG

Sequence 6315

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGGACATACTAAGTAATATAATTGTTAACTC
TTACTAGCATTCTGTCCCTTTTATTTCCTAAATATCTCTCATGCCCATCTCCTAAATATC
TCTTTCCTAAATATCTCTCATGCTTTTGGCTTAAGACCTCTTTTCCTCCTTATCCATTGA
CTGGACTGCGGCAAATGCCTGCTAATCGTTATTTTTGTGTTCATTCATTTAGCAAGCCAA
TTTATTACGCGCTTAGGGTGCTGCCAGGGCTACAAAAGCTGTTGAGACTGTACCTGCCCG
GGCGGCCGCTCGAAAGGGCN

Sequence 6316

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATT
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TTTAGGCCAATTTTGANTAGNCAAANTNANANCATTCAATTTNNNTTGNGANCCNAGGCA

TABLE 1A
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NAANTNCAAAAACNTNTTTNAGGGGTCCNGGGGAGGGGGNAACCCAGCTTTGGGANTAAA
NACCNNGCTGGGGACNGNNCCCCNTNAGGATGCNNGCNAANCCCTGCAAAAATNNTTAAA
ATTCNNNCTNCTTTTTTNGNGGGACCTCNATGGGTTTAGGANAAAAAACCCC

Sequence 6317
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGAGGTCTGAAAATTGAACAAGATGGACG
GGTCCAGGAAAGAGGAGGAGGAAGACAGCACATTCACCAACATTTCTCTTGCAGATGACA
TAGGAAGACCAACCCCTTCTCTTCCTCCTTCTCCTCAGCTTGTTCAATGTGAAAATGAAG
AAGATGAAGACTTTCATGATGACCCACTTCCACGTNATACCATTCCTCAAGAATTTNGNA
TNCAAGGCCCAAAAGTTTGNTNCCCAAGATGATGAATG

Sequence 6318
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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TTTTTTNAAAAAANCNANNTTTTTNAATTTTNAGNCNANTTTTGNNNNNTAAAANTNAAA
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GGNGGGGGNANCCAANNTTTNGAAANAAAANCCGNGNNGGGNANGGNNCCCTTTNAGNNT
NNAGGNAAANCCCTGAAAAATTTTTNAAAATTNANNNTTTTTTTTGGGGGGGNNCTTTNT
NNTTTTAGNANAAAAACCCCNGGGGNCCCCAAAAAGGGNTTTTTANAAAAAAACCCCCTT
TTTTTNNNNNNGGGGGGGGGTNAANNCAANAAAAACNAANATTTTTTTTTTTT

Sequence 6319
CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTCAGAGTCTTCTTTTCTTTTCTTTTTGAGA
TGGAGTCTTGCTCTGTTGCCAGACTGGAGTGCAGTGGTGCGATCTGGGCTCACTGCAATC
TCCACCTCCCGGGTTCAAGCGACTCTCCTGCCTCAGCCTCCCGAGTAACTGGGACTACAG
GTGCGCGCCACCAAGCCCAGCTCATCCTTGTATTTTTAGTAGAGATGGGGTTTCACCGAT
GTTGGCTAGGATGGTCTCGATCTCTGGTCAGAGTCTTTTCTGTAAATATCCTTGGTAAAG
AAGCAATTTTAGACTGTAAGCTGTTGCAAATGCTTTAAGGAAGAAAGCAAAA

Sequence 6320
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTGGCATGATCTGGGCCTATGCGGTCTTGCA
ATCCCTGTATAAAACTAGACAATGAAAAACAGAAAACAAAACAAACAAACAAAAAAACAA
GAACGAAGCACCTACCACATGCCAGCTACTGAGGCTATGAAGGTATTCTCCGGCCTTAGA
AAGCCCAGGATTAATGCAGGATTGCGATATTTAAACAGAACATTTCCATACAGCATGAGT
ATAAATGACTTTCCCAAGTTTACACTGAGAGTAACTGACACAGCAACCCCAGCAAAGTCT
GAGCTGAGTCCTGAATAATTGTATAAAAAGGGGAGAGAAACAGAGTGAAGAAAGGGTTTC
CCAGACTCTGTCCCAGGAAAGAAAATGAGCTCGTGGAGAGGAATAGACTTTCTCTATGAA
AACAGAGGGAACAAAGAGGAAGATGTCTGGGAACCGAGGAGTAATAGAGACCTGAGTTTA
CATCACTACTCTTGCCACTCCCTAGGTACCTGCCCGGGCGGCCGCTCGAAAGGGC

Sequence 6321
CCCTTTCNNTCGGCCGCCCGNTNAGGTACATTGTATCTTTGTTCTCACTGGTTTCAAAGA
ACATCTTTATTTCTGCCTTCATTTCGTTATTTAACCGGTAGTCATTCGGGAGCAGGTTGT
TCAGTTTCCTTGTAGTTGTGCGGTTTTGAGTGAGTTTCTTAATCCTGAGTTCTAATTTGC
CCGCGTACTCCTTCCTCCTGTCCACATCATCCCGGCACACCCCCACGCGCCACCTTTTAT
TGTGTCCTCCGTCCACCTCCAGTAATGTTTCCTGCTTGGAAACTCTGAGAAGCCACCACA
CTCTTCCTTGTAAATCTCTTCTCAGAAGTGAGGCACCTNCTG

Sequence 6322
CCCTTAGCGTGGTCGGGCCGAGGTACTTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTT
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AAATTTTTTTTTTTTTTTTTNNACNCCCNAATTTTTNAAAAAAAAAAAAAANCCCCNNNTT
NNNNAAAAAANCAANNCNAAAAAAAANNNNNGTANANAAANATTGGGGNGGGGATAANTT
TTNTTAAAAAAAAAAAAAATANCCNNNTTTTTTNNAAAAAAAAATTTTTTTTTTTTTANA
AAAA

Sequence 6323

TABLE 1A
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CCCTTANCGTGGCNGGGGCCGANGTACTAAATAAANATTATTGGAATGAACAGCCGAAGC
GACTGACTTCTANATGGAGCACTATTGCTCATTTCACTTCTGTTCCTNGCACCTAAACAA
ACCTTTACATCCTCACTGGTCTGNGAGGCCAGANAACAGGTGTGGCCTTGGTGTGATAAG
AAATGCTANTTTTATACAAAACTGAANCCAATNCNTGGGCCTNAAACTCTTGACCCCCCA
AATGCNCCTTCAAAAATGGNATTCAATTGGAGCCCANNGNGNAGGGCTTNGAANGNAAAG
GGAGNGNAAGCCAATTCATGGCCCCCTTT

Sequence 6324
CCCTTGAGCGGCCCGCCCGGGCAGGTACTTCCCTTATCATAACACCTATCATGCTTTATT
ATTATGCCTATTATATTAGTTTCCTATTTCTTCTGTAACAAATTACACCAATTTTTTTTT
GCTTAAAACAGCACAAATTTATTATACTTCTGGAGCTCAAAAGTCTAAAATAGGCTAGCA
GTGCCATTTTCCTTCTGGAGGATATACAAGATAATCAATTTCTTTATCTTTTACAGCTTT
TAGAGGCTACCTGTATTCTTTGGCTTGTGGTCCCTTCCTCTATCTTCAAAGTCAGCAGGC
CATCTTTAACTTTCTGTCTTCTGACCTCTGCTTCTATTTTCACATTGCCTTCCCACATTG
ATTTTCTGCCTCTCTCGTTCTCTTATAAGGATCTTGGTGATTACATTGGGCCCACCTAGG
TAATCC

Sequence 6325
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTCAGTTCCATATTTTTGTTTGNTTCTTT
TTATGTTTTGCATCTCTTTACTGATATTTCACTAATATATTATTTTTGTGGGTTTTCCAC
ATCTTCCTTTAGTTTACTGAGCATCTTTAAGAGATTTCTTTTAAAGACTTTTTCTAGTAA
ATTGGGCATTGGTCTTATGAACAGTTTCTGTTGATTTTATATTTATTTGGATGGACCATA
CTTTCTTATTTTTTGAATACTTTGTGATTTTTTTGTTGAAAATTGGACATTTGAATCTAA
GAATGTGGTACTTTGGAAATCAGATTCTCGTCCTTTCCTAGGTTTNTGGGGTGTGTGTGT
GAGTGTTAAATTTTTACTCTTTCTTTAANCTTAAAACTG

Sequence 6326
CCCTTCGAGCGGCCGCCCGGGCAGGGTACCCCGGGCTAGCACTCTTGACCTAGCAGTCAA
CATGAAAGGCTCTCATTGTCTGGGGCTTGCCTCCTTTCTGGTACCGGGCCAAGGCAAGGT
CTTTGAAAGGGTGTGAGTTGGCCAAGAACTNTTAAAAAAATGGGAATGGATTGCTTCAGG
GGAATCAACCTAACCAACTTGATGTGTTTGGCCCAATGGGAAGAATGGTTACAACACACN
AAGCTACAAACTACAATGCTTGANACAGAAACACTTGANTATTGGGATATTTCAAGATCA
ATANCCCGCTACTGGTGTAATGATGGCAAAACCCCAAGGAACAAGTTAAATGCCTGTCAT
TTAATNCTGCAGTGCTTTTGCTTGCAAGATAACCATCGCTGATGCTTGTAACCTTGGTGC
AAAAGAAGGGTTGTNCCGTGATNCCACAANGGCATTTAAAACCATTGGGTTGGCATTGGA
AAAAATCGTTTGTCAAAAACAGAAAATGTNCCGTCAGTATTGTTCAAAGGTTGGTGGAGT
GTAACTTCCAAAAATTTTTCCTTCTTCAAGCTCAATTTTGGCCTCTCTTCACATTTAAAG
GGAGTAGGGAATTTAAGTGGAAAGGTCACACCTANCCATTTATTTTTCCCCTTCA

Sequence 6327
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCTGCAGGATCTTGCTGTCGGTGGTCTGCG
GGAAGCCAAAGTCCATGAGCTCGTCCAGCAACTCGTAGACGATGACAAAGTTGTCCCGGA
TGCTCTCCTCCTCCAGCTCCTTGAAGTATTNGCAGAATACCTCTATTGTCTTATACAGGA
AGGAGTACTTCCCACTTTTCATAACGAGTTGGAGCCTAGAGTTGATCGACTCCAGCGACT
TTTTCGTCTTCTTTGCGGCCACCATCTTCCTGCCTTAGGAGCGGGACGGCCCCAA

Sequence 6328
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGATGGAATTCTACTGTCTTGGAAGGAAT
TTAGACTTTCTGCTCAAAAGGGCAGTGATGTAAGCTCAGGGAAGGTGTGTGGTTGCAAAG
AGCTTTCAGTTTTGCCCAAACATCTGATGGTCCAACCACTCTAGGTGAATTCAGAGAAGT
GAACAGCTCTCAGAGTAACAAAACTGACCACCAGCTAGTTGTGATGGCGCACACCTGTAA
TTCCAGCTACTTGGGAGGCCAGGGTAGAAGAATTGCTTGAGTGCAGGAGTTTGAGGCCAG
CCTGGAAAGTGAGACCCCGTNTTTAAACAAAGCAAAACAAAACAAAACCGACCACAGTGC
CAGGAAAGTGCTACTGCTAACTGGCAGTGGGCTTGTAACCATGCAAAATGTGGATACCTG
TCACTTTGGAAACATTACATTTAAATTCAAGCTTAACTTTTTTTTTTTTTTTTTAAAAN
AATTAGTTTTAAACCTACTTCCTAGGGACTTGGCTTGGGTNCCATTAATTAATTTTTTAA

TABLE 1A
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Sequence 6329
AGAATTNGCCCTTAGCGTTTTCGCGGCCGAGGTACAAATGACACAATNAGAGAGAAAAGA
GTGACAAAAAGCAAAGAGATGAATACTGATTATAACTTATTCCCACAACA
Sequence 6330
CCCTTAGCNTNGNCCNGNCCGACGNNCANATAGGNAANNCTTTCTCCCACTTGCTTCTAG
TGAACAAACACACCACTGCACCTCATCCACTGCTCTCACCAAACCTNTAGCCCCTTTGAC
AGGGAACAGTTGCTTGCAATTGGCTGAGACCACCTTATAAAATCACAGTCCATCAGCCCA
CCAGGGAACACAATGGTTTAATAATATTCAGCATCTCTTCTTCAAAGTAAGTGCAATGGT
ATAAACCAATAAATATTTGTATATCCTTCTATTAAAGAAGTTTTGGCTTAAATTTAAACA
ACAAAGCAGAACAAAAAATTCCATACTTGCAGAGAAAAGTTTAAAAAAAGTGGAGCATAA
AGNGGGTTCCCAATTCTGTTTCTCTATTATCTCTTCAACCCTTTTTT
Sequence 6331
CCCTTTCGAGCGGCCGCCCGGGCAGGTATAGATTAAATAGCTTAAAGGAAGAAAAAATCA
TCATAGTAAAAGAATTTGAGAAGATACAAAGCCNGGGAAGAAATGGAGAAAGAAGATGAA
AATTTTGAGAGAAAGCCCTGAAGAATTNCGTAAAGAAATATTGCAGAAGAAATTAGAAAT
TAAAATT
Sequence 6332
CCCTTTCGAGCGGCCGCCCGGGCAGGTACNCGNGGAAAGTAAATGACNATTTNTAATTTT
ATGTGATANTTTTTAAAACTNTGTGTTANCTAGGGTNNTAGGAANCCNGATGTCCANAAC
CAATCATGTGGGGCTGTTCAGACTGGGATCCACTCAGGGTCCCCGANCCGNTCCCANGAA
CTTNNGGCCTGGGCAGAAAACATANGAAAAGCCANNGTTCTAATAATACCCAAACTATAT
CAGTNTTTGAGTTCAATTTGTTGTACCTCGGCCGCGACCACTCTAAGGG
Sequence 6333
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGATATTGGAGCAGCAAGAGGCTGG
GAAGCCATCACTTACCTTGCACTGAGAAAGAAGACAAAGGCCAGTATGCACAGCTTTCCT
CCACTGCTGCTGCTGTTCTGGGGTGTGGTGTCTCACAGCTTCCCAGCGACTNTAGAAACA
CAAGAGCAAGATGTGGACTTAGTCCANAAATACCTGGAAAAATACTACAACCTGAAGAAT
GATGGGAGGCAAGTTNAAAAGCGGGAAGAAAATAGTTGGCTCCCAGTGGTTTGAAAAAAA
TTTGAAANNCAAATTGCCAGGAAATT
Sequence 6334
CCCTTAGCGTGGTCGCGGCCGAGGTACCGACTGGAGTCCATATGCAGACCAAAGCATCAA
AGTGAGGATAAGCCTAAAATCAGCTCTTGGAGATAAAGCATTGAATGGAACGACAATGAA
ATGTACGCGGGGAGTCCGAGTGGAGAGAGCGAGCTGAGTGGTTGTGTGGTCGCGTCTCGG
AAACCGGTAGCGCTTGCAGCATGGCTGACCAACTGACTGAAGAGCAGATTGCAGAATTCA
AAGAAACTTTTTCACTATTTGACAAAGATGGTGATGGAACTATAACAACAAAGGAATTGG
GAACTGTAATGAGATCTCTTGGGCAGAATCCCACAGAAGCAGAGTTACAGGACATGATTA
ATGAAGTAGATGCTGATGGTAATGGCACAATTGACTTCCTGAATTTCTGACAATGATGGC
AAAGAA
Sequence 6335
CCCTTAGCGTGGTCGCGGCCGAGGTACTCGGNGCTAGCACTCTGACCTAGCNGCCANCAT
GAAGGNTNTAATNNNNCTGGGGCTNGTCNTCCTTNCTGTANNNCCACANGCAAGTGTCTT
TGAAAGGTGTNNGTNTGNCCANAACTNTGAAAAGATTGTNTAATGGATGGCTACAGGCNG
AATCATCCTAGCAAACTGGATGTGTTTGNCCAAATGGGANAGTGGNTCAACACACGATCT
ACANAACTACAATGCTTGGAGACAGAAGCACTGATTATGGGATATTTCANATCATATAGC
NCGCTACTGNTGTAATGATGGCAAAACCCNAANGAGCAGTTAATGCCTGTCATTTATCCT
GCAGTGCTTTTCTTGCAAGATAACCATCGCTGNTGCTGTAACTTGTGCAAAAGAGGGTTT
GTCCCGTGATCCANAATGGCATTANAAGCATGGGTGGCAATGGANTAAATCNGTTTGTNA
AAAACANAGTNTGTTCCTTCANTATGTTCAAAGGGTTGANGGAAGTGNNAACTCCANAAA
ATTATCCTTCTTNAAGCTCAATTTTGANTTTCTTCACCATTAAAGGGAGTTNNGAAATTN
ANTTGAAAAGGTTCACAACTACCATTATTTN
Sequence 6336

TABLE 1A
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CCCTTAGCGTGGNGCNGNGGNCGANGTACTACAGGCTGACCTTCTCTGTTTGCCAATTCT
GGAACCAAAATATGCAGTTGAAAAAATANTANAAGCTATTCTACANGAAAAAATGTNCCT
GCCCGGGCGGCCGCTCGAAAGGGCCGAATTCCANGCACACTGGCCGGCTCGTTTACTAGT
GGATCCNGAGCNTCGGTTACCAAGCTTGGCGTAATCAATGGTTCATAGGCTGGTTTCCCT
GNGNGGAAAATTTGTTATNTCGCTTCACANATTTCCACAACANANCATTACCGAAGNNCG
NGAAGGCATTNTTANGTNGTAAAAAGGCCCTGGGGGGTTGCNCTTAAATTGAAGTTGNAG
GCCTAACCTTCACCA

Sequence 6337

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTACTTTNTTTT
TTTTTTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNATTTGGGAATGAAAAAATAACT
TTNTTTTNTTNNGGGGAGCGGNCCCCCCCTGGGAGGGGTNACCCGGCCC

Sequence 6338

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATGGAATTCTACTGTCTTGGAAGGAATTT
AGACTTTCTGCTCAAAAGGGCAGTGATGTAAGCTCAGGGAAGGTGTGTGGTTGCAAAGAG
CTTTCAGTTTTGCCCAAACATCTGATGGTCCAACCACTCTAGGTGAATTCAGAGAAGTGA
ACAGCTCTCAGAGTAACAAAACTGACCACCAGCTAGCTGTGATGGCGCACACCTGTAATT
CCAGCTACTTGGGAGGCCAGGGTAGAAGAATTGCTTGAGTGCAGGAGTTTGAGGCCAGCC
TGGAAAGTGAGACCCCGTCTCTAAACAAAGCAAAACAAAACAAAACCCGACCACAGTGCC
AGGAAAGTGCTACTGCTAACTGGCAGTGGCTTGTAACCATGCAAATGTGGATACCTGTCA
CTTGGAAACATTACATTTAATTCAGGCTCAACTTTTTTTTTTTTAAAGAATTAGTTTTAA
CCTACTTCCTAGGACTTGCTGNGTTCCATTATTTATTTTTTATTTTTTTAGACAGGATCT
CGCTATGTCACCTGGCTGGAGTGCAGTGGGTGTGATCATGGCTCACTGCAACCCCAACC

Sequence 6339

NCCCTTAGCGTGGTCNCGGCCGAGGTACCAACTGCAGAGCCAGGAAAACTTTTGAAGCCT
TCATGAAGGCAATCGGTCTGCCGGAAGANCTCATCCANAANGGGTTAAGGATATTCAAAG
GGGGTTGTNGGGAAAATTCNGGCCAANAATTGGTGAAGCCACTTTCNAATGTTTCACCCA
TTCCNCCCGNTTGGNGTTTCCCAAAAAGATGNAATTCCCAAAAAAACCGA

Sequence 6340

CCCTTAAGCGTGGTCGCGGCCGAGGTACTTTCCAGGGGAACCGCATGGAGATCCCTTAAG
TTGAAACTGGACAAAACCAGAAACCAAGTTGGGATGGTCTAGCTGANATCTGGGATAGTT
TCTTGAATTCAAAAGTGTTCACCANCCCATTTGGATTTTTTTAACTTGGGAAACCCCC

Sequence 6341

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGTGGCCTAGCCTCCCAGCCTACATC
TTTCTCCCATGCTGGATGCTTCCTGCCCTCAAACACTGGACTCCAGGTTCTTGTTTTGGG
ACTTGGACTGGCTCTCCTTGCTCCTCAGCTTACAGATGCCTATTGTAGGACCTTGTGATA
GTAAAGGAGATGGGTGTATGAGTTCTGCAGAAGTCCACCAAATGTGGGCCAGGGTTATTT
CCCTGGTGATGCTCTGAAGCTTTTGCCAAAGGACAAATGGAA

Sequence 6342

ACTCACTATAGGGCGAATGGGCCCTTAGATGCATGCTCGAGCCGGCCGCAATGGTGAATG
GATTTCTGCAGAATTCGCCCTTCAGCCGGCCGCCCGGCCAGGTCCCCGGAAATGGTGGAT
ATAATGGTAATATCATATTAAATAATAAGAGAAAGGGATTTTGGTTAAATGAAAAATGGT
TAACCNAGAATCTGGTCTATTNNATTGGGACTTGCCCCTTTGGTCAAAGTATTTTCTTTA
AGGCTTNGNATTGTGAACAGCTCTTACTTGGCCCAGTGACAGATCAGTGGTCTTCTTTTC
CCAGTTGAACAGTGCATACGCAGTAGCTATTATTGGGGTAATCTTTACTTCTCTTCATGG
TAGAAACCAAAGTCTTCTCTGCTGGCTGGGGCTGAAAAGAGGGCTGGGGTTATCTCCTTC
TGATCTTCAAAAACAAAGAAGAGAAGACCTTGGAATACACTGACTCTTTCCACCCTTTTT
TTTTTTC

Sequence 6343

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACTTTGGGCTACAAAGTAGAGAATTTATTT
TGACTTCTTTAGCCCCATCAAGGCTCGTGGTTCTCCCTGACACCCCTCACCACCTCATGT
CTTCATCTGCAGACTGTGCTGGGATGCTAGGCTGTTCCTCCCGTTAGGAGCAGCTCAGTG

TABLE 1A
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GGAGCAGATTCAAGTAGAAGGAGAGAGGAATCTGCATGCATTGGGCTGACGGTGATTTGT
TCATTTCTTAGAGTAATCAGTAACATCTTGATTGATGCATTCTTAGTTTAGTACCTCGGC
CGCGACCACGCTAAGGG

Sequence 6344

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGAAACTG
AGTTTTGCTCTTCTTGCCTAGGCTGGAGTGCAGTGGTGCTGTCTCGGCTCACTGCAGCCT
CCACCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGTTGGGATTACAGG
TGCCCACCACCACGCCCGGCTAATTTTTCTATTTTTAGTAAANACGGGGTTTCACCATGT
TGGCCAGGCTGGTCTTGAACTCCGGACCTCAGGTGATCCGCCCACCTTGCTCTCCCAAAG
TGCTGGGATTAGAGGCATGAGCCACCATGGCACCTGGCTATATCTAACTTCTGTTACAGC
AAATGATGCTGATTTCCTCTTTAAATGAATGATATAAACTTGCATTTTANAATGCATTCA
CAATATTCTGTATTTAACAAATAATAGATTTAAAGA

Sequence 6345

CCCTTAGCGTGGTCGCGGCCGAGGTGCTNGNGGATGATTCACGTGGCAAAGGACGCCCAT
TNNCTNCATTNTTATTGTNTACAANTTGCTACTTTTGCTACTTNAAANCATTCATTNAAA
AAATATGTATTAANAATCATCTNAATAAGCTATTAGTGCTAGATGCTAAAGATATAGCAG
TGAACAACAGTCTCTGCTGACATNAACCTTGTAGTCTACTGAANGAGACAACTAATAAAT
AAGGAAACCAAATGTAAA

Sequence 6346

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCTTTCTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGATTTNTANAAAAA
ACAANNTNTTTAAATTTTANGGCCNNTTTTGNNTATCAAAANTAAAANCNTNANNTTTGN
NTNNNNANCCNNGGNNNAATTNAAAAANCTNTTTTNNGGNNNCCGGGGGNGGNGGNNNCC
AANNTNTGNNATTAATAACCNGGCNGGNGACGGNCCCNNGTTANANTTNAGGNNAAACCC
NNNNAAAAGGGNTNTAAAATTCANNNNNNTTTTTTNGNGGACCCTCNANGGTTTTAANAA
AAANACCCANGGGNNCCCCCCNCAANGGNNTNTTTTAAAACNNANTCCNTTTTTTAACCC
NNGGGNGGGGNGNGANNCCCAAAAAACCCCATTTTTTTTTTTTTAGGGGGGGCCNNTTNAC
ACTTTTTTTTTGGGGCNTTANCNAGGGTTNCGAGGGCCNANTTNGNCCCNCAGTNNCGNG
GGCAAAAACCCCTTTTTTTNAAANGGGGGCCAATTACCTNTTTTTTTTNNNAAAAGGNCN
NNCCCTNTTANNAGGTAACCCGGATTTCNCGGGCCCTTTNTNTTTAANAAAAAAAAAAAA
NNNTTTCCCTNAAAAAAATTTTTTTNTNGANCNCNTAGGTNTTTANGGGAATTCCTTATTN
NNAAAAATAANGTTTTTTTTTTT

Sequence 6347

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGACTTAAAGCTGAGAGTGGAGCAGGCA
CTAGGGGAAAACCTGGCATGCANATCCCCACCCCCAGAGGGATATGAAGCTTGTGGTAGG
TGCCCTGATGGTAACCAGAGCAACAGTAAGGCTCAAACCCAGTCCAGCTTCTAATGAAAT
TAACTCGATTCTTGCACTAATAGCTTAGCAGGAGGGAAAAACCTTGTAGGTNTATTAGTA
GGAATTACCCATG

Sequence 6348

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTGTTTTTCTTGATTTTTTTTTTT
TTTTTTTNTTTTTTTTTTTTTTNTTTTTTTATTTNTTTTTNTTATTTTTTTTTTTTTTTT
TNTTTTTNANTNNNTAGATTTTTTTNTTTTNTTTTTTNTATGAAGTTTTTTTTTTTAANA
AAATTTTNTTTTTTNACACAAAAANATTTTAGATTNTTTTNTGGATACACACATTGCTNG
GGAGTTGNNTTATATANTAATTGAATTCATTTATNTTNAGGGGGNAACAATTGTAAAGAA
ACAAAAAAANGTCNAGATGAATGTATGCTACAAATAAAAGTTNNNANNTTNTTGNNNNAAA
AAAAAAAATNTTTATAANAAANAAAAANTATNNNAAATNTTNAAANANNGNNNTNNANAT
ATTTTTTTTTTTCTTTATTNAAAAAAAAAAANNAAANTTNCATNATNNNTTTTTAATAAA

Sequence 6349

CCCTTAGCNTGGTCGCGGCCGAGGTACCTAATGCTGCCTTTAGATGAAGTCACATTCAGT
CTGCTTTGAAATGAAATATCTTTAAGTAATCTGTTCTGCCAGGCTAGAAAAATGTCACCA
NCATTTTNCTGATGCATGGAGATNTGGNANNTNNTAAACTACTATTTAGAGAGGAANAGA

TABLE 1A
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ATTGGAGCANAANTGACTGGNCAACAGTTTCAAGAGANTCAAAATTTGNTTTNTNTNAAA
TTTAATTAAAACANNCACTNCATTCNGCNNAANAATATGNNCAATTTAGNGCAGTAGGNA
AAATNAACAGAANGAATTAATTTCATGGAGCAAAGGTANGNGCTTTTTTANTTACTATTC
ACTGGGAAAAAAACTTATTTGCCCTAACCAAATAAAATTTGGTTTCAACAGAAAGTNCCT
GCNCCGNNGCNGNCCGNCTGGGCCGGGCACCTTNAANTTTAATATTNTTATTTNTNNATT
TATACAAGGNNACNATTCCTTTGTTTTTTTTTTTTCTTCAATAAAAAACNAAC

Sequence 6350
CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTCAATACATTTTTGTTGAGCAAATTATAGC
TCAGAATAAAGAAGTGATATATTCTAAATTGTATTGAAATAAAAGCACATGACAAAATAG
CTAAGTATTTTTATTTATTTTTTCCCCCTGTGATAGAACAAGTAAGAAGTTTGCGACAGA
GCACTATTGCCAAGCGTTCAAATGCAGCACCATTAAGTAACACAAAAAAAAGCATCTGGG
AAGACTGTATCTACTGCTAAAGCAGGAGTGAAACAACCAGAAAGGAGTCAGGTTAAAGAA
GAAGTATGTATGTCACTGAAACCTGAGTNCCTGCCCGGGCGGCCGCTCNAAAGGG

Sequence 6351
CCCTTAGCGTGGTCGCGGCCGAGGTACACATTCAATAAGCTCAGCAAATCCTAAGTAGGA
TGAACTCAAAGAAACCACTCCCAGATACATAACTAACCTGTTGAAAAACTAATATAACTA
AAGAATGAAAACAGAGAAAAATGTCACATTATGTGTAGGGAGAAAACAATTTAAAGACCA
CATATTTTTCATCACAAACTATGAAGACTAGCATACAGTGGAACAATATCTTTAAATCTG
CAAAAGAAAAGAATTATAAACTTAGAATTTTATACCCTGTGAAACTGTCCTTCAGGAATG
AGGCAAAAAGAAAATATCCTCAGAGGAAGGAAAAT

Sequence 6352
CCGTGTGATGGATGTCTGCAGAATTNGCCCTTAGCGTGGTCGCGCCGAGGTACGGCCCAN
TTTGCTTGGCTCTACAAGGCCCAAAACGGTTTGGACTTTTCCACTTAAGGAAGACATTTC
TGATGGTACCCACCACCACTGTATGATGCTCATGAGCTCTGGCNTGCCATGAAGGGAGTA
GGCACTTGATGAGAATTGCCTCATTGAAATACTAGCTTNAA

Sequence 6353
GGGGNCCGGAAANTTTTGGGGGGGGCCCCCCTTTTCTTTAANGGAAAAAGGGCCCATTTG
GGGGCCCCTTTTTCCCCGGGAAAGNCCGGGGGCCCCGGCCCCAANGTTNGGGTTTGGGAA
TTGGGGAATTATTTCCTTGGCCAAGNAAAAATTTTCCCGCCCCCCTTTTTTAAAAANCCC
CGGNTTNGGGGGTTCCCCGCCCGGGGCCCGGAAGGGAACCTTNTNTTTTTTN

Sequence 6354
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGACAGAAGGGACGACAGCTGCTTGCT
GGGGAGAGGCGGAGCCCTGAGCTCCTGGCAGAACCTGAAGGGAAGAATATTTCTCAGCCC
TCCGTTCTCAAGACAGATGAGTGCTTTAGAAAGAGGACTCTGCAGCGGCGAGGAGGATGG
AATGACAGGCAAAGCACGCAGGACCAGGAGATGGCTTCGCTCCCTCAATCACTCATCCAA
AGACGTTTAATGAGCACCTATTGTGTGTCAGGCATTGTACCTCGGCCGCGACCACGCTAA
GGG

Sequence 6355
CCCTTAGCGTGGTCGCGGCCGAGGTACATATGCTCAGTGTTTAAATTACATTTCTATACA
GGTCTATTGATCTATATTTTTGGTCAATATATCTCATGCCTGTAATCCCAGCACTTTGGG
AGGCCGAGGCGAGCATATCACGAGGTCAGGAGTTCGAGATCAGCCTGGTCAACACGGTGA
AACCCCGTCTCTACTAAAAATACAGAAATTAGCTGGGTAGAGTGGCAGGCACCTGTAATC
CCAGCTACTCAGGAGGCTGAGGCAGGGGGATGGTTTGAACCCGGGAGGCAGAGGTTGCAG
TGAGCCAAGATGGCGCCACTGTACACGATAGTGGATTGGAGTGCAGGGTCCCAGTAATAA
GTGTAATGCCAGCTTGGGGTCAGTGAAGGCCAGAGACAAGCANATTGGGCCTGACCCCCA
CCA

Sequence 6356
CCCTTAGCGTGGTCGCGGCCGAGGNACACACACTNTNTCNTNNTATTCATCTCCAAGCCA
CAGAAGGATGTATCAGCCCTGTAGCTAAAAGGATGTGTGGCGGAATCGTTTGGTAATGGC
AGTTTTGAAGATGAAGTCTGAAAAATGTAAGATGATTTTGCCATCTTCTTGAAATCTTTA
AACAGGGTGGAAGACTTAGAATTATGCAGTGCAGCTCCAGTGCGTACGGGAAGGCGAAGA

TABLE 1A
593/599

AAAGAATANAGAAGATAGGGAAATTNGAAGATAAAAACATACTTTTAGAAGAAAAAAGAT
AAATTTAAACCTGAAAAGTAGGAAGCAGAAGAAAAAAGACAAGCTAGGAAACAAAAAGCT
AAGGGCAAAATGTACCTGCCCGGGCGGCCCGCCGGGCANGTACTTTNTTTTTTNTNNGTT
TTTNCCTNGCCCCATTTAAATTTTTTTACCTTAAAAGGNTCNTTTTAAAAGGAANTANAA
AATTTGCCCNNTTTTTTTGAATNCAACTTGGTNNATTAAAGGGAANCCAAANGNNTTGTT
TNAAAGGGGNGCCCCCNTTTAAATTTTAAAAAATTTTCCATCNNTAGGGAAATTTTGGGG
GGAACCNTTTTNNCCCTCNTGTTTTTANAAAAAAAAACCCNTCCNCGGGTTNNTTTTTTN
GGAAACAGCAAGNNTNTTTNNGGTTTTTTTT

Sequence 6357
CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTATTGAGCTTAATTATAATACTGTCAAATT
GCCACGATCTCACTAAAGGATTTCTATTTGCTGTCAGTTAAAAATAAAGCCCTAAATACA
TTTTTATTCTTTCTACTGAGGGCATTGTCTGTTTTCTTTGTAAATGCCGTACGCGGGGAG
ACACACTCTGCCCCAACCATCCTGAAGCTACAGGTGCTCCCTCCTGGAATCTCCAATGGA
TTTCAGTCGCAGAAGCTTCCACAGAAGCCTGAGCTCCTCCTTGCAGGCCCCTGTAGTCAG
TACTTTNTTTTTTTTTTTTTTTTT

Sequence 6358
CCCTTAGCGTGGTCGCGGCCGAGGTACGACATAGCTTTCAGTATTGTATCTTCTAATATT
TTAATATCTGATAGGCTAGTCTCCATTTTCTTCGGAGATTTTTTCTTTTTTTTCTGCGTT
TGCTTAATTGTTATTTCTTTTTTTTTTTTTTTTTTTGAGATGGAATTTTGCTCTTGTCGCC
CAGGCTGGAGTGCAATGGTGTGAGCTCAGCTCACTGCAACCTCTGCCTCCCAGGTTTAAG
TGATTCTCCTGCCTCAGTCTCTGGAGTGGGTTAGGATTACGGGCTCCCGCCACAGCTAAT
TTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTCAAACTCCT
GACCTTAGGTGATCTACCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGGTGTGGGTCA
CCACGCCTGGCCGNTTTAATTGGTATTTCTACATGAACTTTAAAATCAGCTTGTNTAATT
TAAAAAAAAAAANGGAA

Sequence 6359
CCCTTAGCGTGGTCGCGGCCGAGGTACAATCATGCACTGGGGTAAAGAAGATTCATCTGC
TCTTAGCTACCTACCATGCCAACACTCCTGAGAAAGCTCACAGAGGCCCATGATGCCCAC
CTGGATCTGAGGACCTAGAAAGCCACAACAGGCAACCATAATCTGGGTCTTCCCTCAGCC
AACTCCCCTGCATAAAGTGAATGAATGAAAAACCCATCTTATATTAATCAGAGTTCTCTA
GAGAAAAAGAACCAATCAGATGTGTATATATAGAAAGAGAGAATTATTTTAGGGAATTAG
CTCACATCATTATGCAGGCTGGTCAATCAAAAATCTGTGGAGTGGGCTAGCAGGCTGGAG
ACCCAGGGAAAGGCTAAATTGCAGTTTAGATCAGAAGGTCATCTACTGGCAGAATTCCCT
CATCTTCCAGGAAGGTGGATCTTTTTCTACCAAGGCCTTCAGTTTATTAGATTAGGCCCA
TGAACATGCTGGAGGGTAATCTGCTTTACTCAATACATACTGATTTGAATGTTAGTATCA
TCAAAAAGACCTTCCAGAAACATCTAAAATAATGTTTG

Sequence 6360
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCACTAACACTATAATAAAATAATTTTT
TTAAAGAGTCATAAACCTTTAAGGATGATAAGAGTGGTAGAAGAGACTATAGAAACAAAA
TTTTGGAAGCTGAAAAGCAGGTAGATGAGTGGTAATGACTTAGGAGGTCTGAGAAAGTCA
GATTCCAAATTAGCAGTGGTGAAAGCTGAGGACCTGTTCAGTTTACTTGGCAGAATCTTC
AGAAGTTTTAGAAATTGCTATCTTTAGGAACCTCTGGAAGTTGAGGTATGGGTAGGGCTA
AAGTACGCGGG

Sequence 6361
CCCTTAGCGTGGTCGCGGCCCGAGGACGCGGGGGAGTCAGAGCCTCTTTCTCTAAGTCAC
GGGAACTGCCCTTGCTACTTGTGACCTGCCTTTACTCANCAGTTTTTTGGTCTGGGAAGC
CCTGGGATTC

Sequence 6362
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGTGTCTCGATGGAGTAGACTCTCAGAA
CAGTGCAGTTTGCCCTCCGCTCACGCAGAGCCTCTCCGTGGCTTCCGCACCTTGAGCATT
AGGCCAGTTCTCCTCTTCTCTCTAATCCATCCGTCACCTCTCCTGTCATCCGTTTCCATG

TABLE 1A

CCGTGAGGTCCATTCACAGAACACATCCATGGCTCTCATGCTCAGTTTGGTTCTGAGTCT
CCTCAAGCTGGGATCAGGGCAGTGGCAGGTGTTTGGGCCAGACAAGCCTGTCCAGGCCTT
GGTGGGGGAGGACGCANCATTCTCCTGTTTCCTGTCTCTTAAGGCCAATGCAGAGGCCAT
GGAAGTGCGGTTCTTCAGGGGCCAGTTCTCTAGCGTGGTCCACCTCTACAGGGACGGGA

Sequence 6363

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTAATAGATATTCTAGCCTTTATTTTTT
TTCCTATTTTTCCTGGAGGCATTGCAATATTGCATTTAAAAAAAAACCTTTCTGCCATAT
TGAGCAAAAGCAGCATGATTAAAGTAACAAATGGAAACAAAACATGAGGATGGCATTTTA
GGATTACAAAATGCTTTCCTGACAAATTTTCATTTCATGTTTACCACATTTTTTTAAAGA
TTAGGTTATTATTCCTGTTTTAAAGATGGGGAAACTAAGTATCAGAAAGGTAAAGTGGGC
CGGGCACAGTAGCTCACTCTGATAATCCTAGCACTTTGGGAGGCTGTGGCGGGTGGATCG
CTTGGGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATGAG
GGTGTGGCACACAACAGTAATTTCAGCCTCTCAGGAGGCTTAGGCACAAGAATCTTCTTG
AACTTGGGAGGCAAAGGTTGCAAGTGAGCTGAAATCGCGCCTNTGCACTCGAGCCTGGGC
AACAAAGCAAGACTNTGTTTCANANNAAANNNNNNNNNNNNNNNNNGGTACCTGCCCGG
CCGGCCGCCCGGGC

Sequence 6364

CCCTTAGCGTGGTCGTNGCCGAGGTACAGGTGCATGCCATGATGCCCTGGAAATTTTTTT
GTATTTTTAGACGGGGATTCACCATATTGGTCAGGCTGGTCTCGAGCTCCTGACCTCAGG
TGATCTGCCCACCTTANCCTNCCAAAGTGCTGGGATTACGGGTGTGAGCCACCGCGCCCA
ACCTCTTTATTCTTTTAATGGAAATACTTTAGAGATCATTATTTCTGTTATTTCTNCAAN
TCTTTTTGTAATATTTACTTAATAATTTTATCANTATTATGGATCAACAACCNAGTAAAC
TGTNCAAGATCCTGGGTC

Sequence 6365

TTTTTTTTTTTTTTTNTTATTTTTTNTTTTTTGTGTTTACGTACTNCANCTTTTAGGGCG
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nnnnCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAGAAGTGGACTACACTCATGAGGCC
GTCACCATAAAGTGCACCTTCTNCGCAANCGGATGCCCTTCTGAGCAACCAACATGCCTG
NGGTTTNGCTACGGTGCTCACCAGCCTGAGAACCTGTGCTTGGACG

Sequence 6366

CCCTTAGCGTGGTCGCGGCCGAGGTACATATTTTATTTATATTACAGGTGGGAGAAAAGT
CCAATTGGTCATGGAATTTGATAGACTTTTCCCCAGCCAACTGCTACAGTGTATTATAAT
CCCGACTGCCCCCCTGTGAAAAGAAAAAAAAAATGTCCAAGAGCAAATTTAACATTTTAC
AAACAATAAAGTCCAAACTCCTCTATGCACATATTTATAGCTTATCACTTCATTTTCTGT
GCCAGTGAAGGGGTGGCCAGAAAAAAAATCCCAAGTACCTGCCCGGGCGGCCGCTCNAAA
GGG

Sequence 6367

CCCTTAGCGTGGTCGCGGCCGAGGTACATTAAAAGGGGAATGGTTAAATAAATCATGGAA
TGTGAAAATATTAAAAAGAACAAAGTAACTATATATGCTGATGTGGAAAGCTGCTCACAC
TGTTTTAGGAATGAAGAAGGTTGNGAAATATTTTACACTAAAATTCTATTTNTGAAAAAA
ANAGTCAATATATTTTGTTTGCAAATGCACTGAAACTATCAAGGAAAGATAAAAAAGGGA
GCTTT

Sequence 6368

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGCTAGCATGAGGATCAATTGATTTTATGTTA
AATCCATTTTATCAGTTGGAGAAATTCAAGATTAATGTTGGAGAAACAGTATAAAGCTCT
AGTTTTTCAGGCTGTAGAATATAAAATCATCAGACAAAACCTAAAAAGGCAAGATATTAG
ATGTAAGAAATGTCTTGAAATGAATGTGAAGTGAATTGAAAAGAGCCGTGAATAAAGCAA
AAACCACTAGGAATTCAATTTTGTTGGCTATTTCTGACATTCACAAGTAGACGTACCTTG
CCCGGGCGGNCGCTCGAAAGGGCGAATTCCANCACACTGGCGGCCCGTTNCTAGTGGATC

Sequence 6369

NCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTGAGAGGCTGAGGCAGCCGTATCAGTTG

TABLE 1A
595/599

AGGCCAGGAGTTTGAGACCAGCCTGCCAACATGGCAAAACCCCCATCTCTACTAAAAAAT
AAAAAAATTAGCCGGGTGTTGTGGCGGGCGCCTGTGATCCCAGCTATTTGGGAGGATGAG
GCATGAGAATTGATTGAATCTGGGAGGCAGAGGTTGCAGTTAGCTGAGATTGTGCCACTG
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NGTCCCGGNTAAGANATATATACAATTTTATCTTAATGCAAAAATTANAAATNTGTAACC
AAAGTAGCAATTAAATAAATCTAGCCACTTGTAAATTGAAATAAACCTTTTNTCCTAACC
AGCAGTTTTGAATCAAAGGAAAAATAAAATGTGTGATTCTAAGTTNTTCAAAAAAACCA
Sequence 6370
GGATATCTGCAGAATTCGCCCTTANCNTNGTCGCGGCCCGAGGTACCGGATGCTACTTGT
CCAATGATGGTAAAAGGGTAGCTTACTGGTTTGTCCTCCGATTCANGTTAGAATGA
Sequence 6371
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GGGAGGGCAAAGGCGAAAAAGCAATTGGACATGATAGCTAGATTTGTTTCAGGAAAACAT
CCTGCTTTCCAAGGATT
Sequence 6372
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TAATGTCTGGGCACAGTGGCTCACGCCTGTAATCCTAGCACTTTGGGAGGCTGAGGAGGA
AGGATCACTTGAGCCCAGAAGTTCGAGACTAGCCTGGGCAACATGGAGAAGCCCTGTCTC
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TGCATTGGTTACCAACCCCTTGCCAGTTAACCAGTAGCCCTTTCCTGGCNCTGNGGGCGG
TTT
Sequence 6373
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TCCACATGTAGGGGTGAGGCTATTTCACAGANATAGTGTATCATTTTACTAAAACATTAT
TTATTTTAACTATATTTAGGACTTAAATT
Sequence 6374
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AGTCATTATTACCATGCAGGTGTGTAAGTGCTTCCCATATTTCCGAGTTATTTTCCAAAA
ATTCCGCTGTAAACTTGTTTATTGGAAATTAAAATGCAGGTTTGCCCACAAGAAACCGGT
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AATGGTAAGTAN
Sequence 6375
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TCAGCCCTGGCCCTTAGGCCAGCCCAGTCCACGGGCTCTGAGTGTGGAGGCTGCNTANCA
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TTGGTTGGTCCAAGGA
Sequence 6376
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TABLE 1A
596/599

CCAGCACACTGGCCGGCCGTTACTAGTGGATCnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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TANCGAAGCCCGGAAAGCCANTAAAAGTNNTAAAGCCCTGGGGGGGGCCTAATGAGGTGA
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G
Sequence 6377
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TGAAGTTGACTTACTGAAGAATGGAGAGAGAATTGAAAAAGTGGAGCATTCAGACTTGTC
TTTCAGCAAGGACTGGTCTTTCTATCTCTTGTACATGGTCTTATTCTCCCATCGCACAGT
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GCCTTCCGG
Sequence 6378
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GAAATATATAAATTACAATGAAATAGAGGAAGATTGTGGCTCTGTCCTGGGCTGGTTCTT
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TGTCAAATTGGAACAAGGAAACAGAACCCCAGAAATAAATACATTGGTTAACATCANATT
AGTTCANGTTACTTTTTTGTAAAAAGTTAAAGTANANGGGACTTCTGTATTATGCTAACT
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Sequence 6379
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CATCAGAACCAGATCTTGCGGGAACTGTGCCTGCCCGGGCGGCCGCTCGAAAGGG
Sequence 6380
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Sequence 6381
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AGTGACTGACCACATAAACTTTTTT
Sequence 6382
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TABLE 1A
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GTTATCTTTATAGCAACACTCATCCTTAACCAACTAGGTACCTNGGCCGCGACCACGCTA
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TCAACAATTTTCCCACACAAAACAATTACCGAAGCCCCGGGAAAGCCCTTTAAAAAGGTG
TTAAAAAAGCCCTTGGGGGGGTTGGCCCCTTAAAATTGGAGGTNGAAGCCTTAAACCTTC
CAACAATTTAAAATTTN
Sequence 6383
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GGGGGCNGNGAANGGCAGCAACGACCAAGCGNGGGAAACAGNGGGGGGTNTGAGNAAANT
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Sequence 6384
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TAATNNTNNTTTNTNANNNNNNTTTNNNNGGGGNNAAAAAAAANTTTTNAAAAAAATTTT
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AAAAAAAATTTTTTTTTTTTTTTTNAAAAANNNTNAAANCCCNTTTTNAAAAAAAAAAAA
ACCNAAAAAAANNTTTTTTTNANCCCCTACCCNNNAAAAAAACCCNTTTTGGGGCAANTT
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CCCCNCNTNAAAATTNNNNAAANTTNTTTTAATNAAAACAAAANTTTTTTTTAAAAAAAA
AAAA
Sequence 6385
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ACTTGAAAGATTTCTAGAACACTTTTTTTGTTTAAGACAGGGTCTTGCTTTGTCACCCAG
GCTGAAGTGCAGTGGCACAACCACGGCTCACTGCAGCCTCATCCTCCTGGGCTCAAGTGA
TCCTCTTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCATGTGCCACCACATTTGCTA
AATTTTTTATGATTGTTTGTAGAGACAAGATCTGGCTATGCTGCCCAGGCTGGCCTCAAA
CTCCTGGGATCAAGCAAGTCTTCCCACTTTGGCCTCCCAAAGTGCTAGGTTTACAGGCAT
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Sequence 6386
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Sequence 6387
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GAAAATGTCATTTTTGCTTTCTGGTGCTCCATTTCTAGTACCTGCCCGGGCGGCCGCAAG
GG
Sequence 6388
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ANCCCAGGTTTGCCCTGTCACTGAAGCTTTTCCAACCAATCCCTCCTTNTTCCATTCACT
TCCCCCACCCTTTGAAAAATTAAATGGTCCCCANAGCCAGTTGANAACAGTCCAAATGCT

TABLE 1A
598/599

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Sequence 6389
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NANNNNGGNCCCANTTTTTTTTTTTTTTTTTAAAAANNNNNAAAATTTTTTNAAAAAANN
TTNTTTTTAAAAANTTTAAAAAAANTTAANNCNTANTTNNTTTTNNNTTTTTTTNTTTGG
NCNTAAANGNAAAATTCCCATTTTTTNNAAANGGCCNAATTNAATCNGAACCNTTTTTTT
TNGGGGGGGGGGAAAAAA
Sequence 6390
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TATTGGACAGAACCAGATGTAGACTAGTAGAGTGTCAGTTTCAAGTCATTTGAACCATAC
ATTTGAACCCATAGCTGAGAACCAGAAAATCAGTAAATAAAGCCTCTGAACAGAATAAAT
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TCTGGTAAGTCCTTAGAGTGTGTTGCTCTTTACTATACCAAGATTGGTTTCCAAACTTCA
GTGGATGAGAAGTANCAGATTGGCCTTGTTTATTGCAAGTAAGTTTTTGAGGATTTTCCC
TCACGCTTCAACACGGNGTAAGTAATTGGATCTTTAGTGAGAAGATTGGTGACCTCAAGG
GAAAGCCTAAAATTGGGATTCCAT
Sequence 6391
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ACTTTGTCCATAAGGGGCGTGGCCACTTCACATGATGGCGGGCCTTTAAGAGCACAAAGA
AGTTTAATATGGACAACAACAGGAAAAAGCAAGAAGAAAACAAGTAGGGAAAAACAGCTA
ACCTGGAGAGAAAGAATTTCTTTAACCTTTATGTTCTTCATTAAAAATCTTATCTTGGAC
TGATTTGAGGGATTTTTAGAAACATGGCCTTATTTTATATAAGCATTACCTTCCCAGGAA
TCTTTGTTGNATATTAATTTTTGATAACCATTTGATTAACTTTAAAATTAAGTATATGTG
TGTATATATACATATGTATGTTTATATACACACATGTATCTGGATAGTTTTATATATACA
TATATTCACATTGACATACAGAAGAACCCACTNCTTTTGTAATAAGTGTCCTGCCCCGGG
CCGGCCGCTCGAAAGGGG
Sequence 6392
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGTCTTGGGTGCTCCACTGGTCCATGCAGG
TGGCAGCAATGATGCCCGCAATCCCAATCAGTGAAACCACGAACCCCAAGCCCTGACAGG
CAGTCACGGCCATGGTGGCGCACAGTGTCGACACAGAGCCGCACGACAAGTGGACAGCGC
AATTCTCCCCGCGTACCTCGGCCGCGACCACGCTAAGGG
Sequence 6393
NCCCTTAGCGTGGTCGCGGCCGAGGTACTCAGGGCCAGNACGCTCCTGCNTATGCGGNAT
AAGCCNNTCANANCAGACCATGNTGGAAGGATCAGGGATCTGAGCAAAGCCAAGTTACTT
AAGCTAANCCCTTGTTCTGGGTCAAGCAGNTNGTTTTTAATAAGCATCATTCCTGATCAT
TAGANCAAAGGGATGAATGCTCCTT
Sequence 6394
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AAGACCAAATGAAGAAAACACGTAGTAAGAATTAAAGGATGTTAGTAGGTGGTAGATTGC
TCAGAGAAGGTATTATGGAACCCACGAGTCCAGAGTCAGCCCTGAATGAGTTTCGGTGAG
CAGGGCAAGAGGGGAGCAGGGATGGTATAGAAAAAAAGGCAGAAAAGTGCAAGGTGTGAA
GCCATGGCTTGCACGGTTAGTAGAGAGCAAAGAGACTAGCTGCAGTTGACTCGTCCACTG
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Sequence 6395
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AATATATGCCCAGTTGTCTCCAGGAAGTAAGAAATTTACCTTGTCTACACCCATGGTTTT

TABLE 1A

599/599

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TAAACATTCATGCTTGTTGGAATGGTCTTCCCATGGCCCAGGGAGGTTGCAGCCTGTCAG
GAGACCACATGCCATGGGGAAGGGCACAGCACTCCTGGTTCCAGAACAGGGTCCCTTAAT
CAGAGTGTTGTCCATAGAAACACTCTGATTAAGC

Sequence 6396

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GAACCGGCAACTCTTTGGCCAGAAAGCTGTATCCAAAAGACAGAGAAGATGAGAAACAGG
GAGGGCAAAGGCGAAAAAGCAATTGGACATGATAGCTAGATTTGTTTCAGGAAAACATCC
TGCTTTCCAAGGATTTAGATGAATGTTTTTGTTCACTGGTGACTCAGGTAACACGTCTTC
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TGATTTACTTCTGACTTCACGAGTCACTTTCTGCCAAAGAAATCTCTCCTTTTGCTTCTA
GCACCCGACTAGATTTCCTTCAGCTTGATGATTGACTCCCAGAATTCGAAAGAAACTGGA
GTCC

Sequence 6397

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TTCTAACTCGAGCAAAGCTGGTTGGAAAGAAGGAATAACTGCCTTTTCTAAGCTTNATNA
TGCTAGGAAGCANATAGGAATTTAATAATTC

Sequence 6398

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCCCCAGTCTTTGCAATTTATCATCGATGCGT
TTAAGGGACAGGTATTTGCCTTATCCACACATCTTATGGCTGCCGAGTGATTCANAGAAT
CCTGGAGCACTGTCTNCCTGACCAGACACTCCCTATTTTAGAGGAGCTTCACCAGCACAC
AGAGCANCTTGTACAGTGGTCCTTTTCAGAGTTGGACTTCTAGACTCACCTGTTCTCACT
CCCTGTTTTAATT

TABLE 2
1/3461

Sequence=1;DNA;Homo sapiens
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CTCCCTCTGTCTTTCTCTCTCTCTCTCTCTCTCTCTGTCCTTTCCTCCTGGACAGATCCACA
GTTATACACAGAAACAAACACACACGCACGTAGAGAAGTGATTCACAAACACTTAAAGAC
ATAAATCACAGGTGCAAAGCCATACCTGGGCTCAAAAACCTCCAAGAGAACGCAGCCTCA
GACCCACCCAGGGGCCAGGGGCCAGGCTGTTTGCGAGACCAGCCCAGGCGGGACCCAGGC
TTGCACGGGCAGGTACACGACATTCTTGGGCATACGCAGCCCGCCTGGCCGGAGCTGTGG
GAGTCCTCAGCCCCAAGACCCAGCAGGCGTCTGAGGCCTGCCCACTAAGGAGGAGGAGTC
ATTGCTGCCATCATTTATCATNCCCTCCCCAGCCACAGTCTGAGGAGCCCNTGTNCACCC
TTCCCA
Sequence=2;DNA;Homo sapiens
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TAAGGTGGTCGCTCTGGCCGAAGGCAGAGAGTGGTCTTTGGAGTCATCACCTGCCCAGAA
CTGGACCCTACCTNAGCCCANGACGCTGCCGTCCATGGTGCACCGAGTCTCTGGCCAGCC
GCAGAGTGTGACCGCCTCCTNGGACAAGGCTTTTGAAGACTGGCTGAATGATGACCTCGG
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NAAGAAAGAAGATGACTTTCTCAACAACGCCATGTCCTCCCTGTACTCGGGCTGGA
Sequence=3;DNA;Homo sapiens
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GAGGGGCTCCTCGCGGTGCTGCGCGCCGGGCCGGGGCCGGAGGCGTTACTGCAGGTCTGG
GCGGCCGAATCGGCGCTGCGTGGGGAGCCATTGTGGGCCCAGAATGGTGGTGCCCGAGGC
CGAAGGGGGAAGGACGATCCGGCCGGGTGAAGGCCCAAGCTTGGGGAGGCTACCCCTTGC
TTGCCCTGCGGCCCCGTGCCCCTACGTGAGCCCCCGCGGGCCGCCCTTCTACCGGCCTTT
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Sequence=4;DNA;Homo sapiens
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GACTGGGGCCACCTGAGCCGCCCGCCTCGTCCCCGCCTTCTGTGGGAAGGATGTGCGCGC
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TGTCTACCTGCCGGCAGCCCTGGAGCTCCTAGACGCCCCTGAACACT
Sequence=5;DNA;Homo sapiens
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TCAAGAGGAGAGGCTGCAGGGAGCCATCCTAAACCCAGAGGCCTGGAGCTTACCCGTGTC
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TGGAGTCCTCAGTGGGGAAAAGCCCTGNTTTGGGG
Sequence=6;DNA;Homo sapiens
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GGCGGCGGCGTGATGCGGCCCGTGGACGCGCCCCGCGCCGGCCCGCGAGAACCTGGCCTC
CCTGGAGCGCGAGCGCGCCCGGGCGCACTGGCGGGCCCGCAGGAAGCTGCTGGAGATCCA
GAGCCTGCTCGACGCCATCAAGAGTGAGGTGGAGGCAGAGGAGCGGGGCGCCCGGGCCCC
AGCACCCCGCCCCGCGTGCGGAGGCTGAGGAGNCGGGTGGCTCGGCTGTGCGCCCGAAGC
AGAGAGGAAGGCTGCGGAAGCGGCGCGGATGGGGCAGGCGGGATCGTGGGAGCTGCACNN
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ANCGCGCGGG

TABLE 2
2/3461

Sequence=7;DNA;Homo sapiens
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GTGGCGACCAGGCCAGACCAGGGGCGCTCGCTGCCTGCGGGCGGGCTGTAGGCGAGGGCG
CGCCCCAGTGCCGAGACCCGGGGCTTCAGGAGCCGGCCCCGGGAGAGAAGAGTGCGGCGG
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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2
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CGCTACTGGGGGCGCCCTCCGCGGTGGGCAAGCGCGCCAGGGATCGGCCTGGGCANGCCG
CGGGGCGCGCGAANGCTGCGCTTTCCCTACGCCCCCCCTCGCTTCCTCCGGCACGGCGGC
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Sequence=41;DNA;Homo sapiens
CNCGTCCGGTTCCTAACACAGACGAACTCAGCTTCCTTTGCCATGCCTCTGACTCGAGCC
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TAGATCGCTTCCCTCGCCCCAATCTTTCCTTGAACCCCTTTTCCAGTGTCCCAAAGCTGT
CCACTCTTACGCCTCTTCCAGAAACACAGGCTACCTCCCCCCAATTCCCCAGTGCCACTC
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CCCTCCCCGGGTCGTCTGTTTTCTTCTATGAAGCAAATATTACTCATCAAATATAGGAAC
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Sequence=42;DNA;Homo sapiens
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TABLE 2

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GGCAGCAGCCGCCGCCTCAACCGGCCCCCCAGGGCCAAGGGCAGGCCGCCTTCGCAGCCC
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CGTGCCCATGAGGCTCCGGAAGCTGCCCGACTCCTTCTTCAAGCCGCCGGAGCCCAAATC
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Sequence=43;DNA;Homo sapiens

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GAAGGCTGTCCCGGCGCCTCAGGCAGCTCTGCGTGGGCCGGGGTGACTTCCTCGCGATCC
CCTGCGCGAGGTGAAGGGCAGGGACCTTTGCCGCGCCTTCCACGCGCCGTGCCCCACCGG
CGAAGTGGGCTCCATCTTCCTTCAAGACTTGTCGCTTCGCGGACAGGGCGCCCGTGGGTT
CTTCCCGGCCCTTCCGTACCGTCCTCTTTCCAAGCGGGCTTCCGGAAAGCGGGTTCCTTG
TCTTTCGGACGCATTTTCACCCCGCGCCGGGGAGGAGCTTNCCGGGNAAGGGTTCCACGG
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Sequence=44;DNA;Homo sapiens

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GCGGCAGCGGTTGCGCCGCGACCAGGAGGAGCCGGTGGCGCCGGGCGGCGGGTCCGCGGC
CGGTGGGGGACNGTGAGTAGCGGCTCGCGCTGCGGTGCAGCGGCGCTGCACTCACTCGCC
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TCCCGGGTTGTGCCTTACTCTCCGGAGTGGGCAGGGGTATCGAGGGCAGGGGCCTCCCGG
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Sequence=45;DNA;Homo sapiens

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TGTGAATCTGAGTGTTGCGTTAGTGGATATGGTAGATTCAAATACAACTTTAGAAGATAA
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Sequence=47;DNA;Homo sapiens

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AACTTTGGGCGAAGTTTGCCTGCGCCTCTCCCCGCCCCCACGCGGCGCGCCGGGGCCGCG
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TABLE 2
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AGATTCTTTATCTCATAAACCAGGGGGAGCACCTGGGGACCACGGAAGCGACCGAGGCCT
TCTTTGCCATGACCAAGCTCTTTCAGTCCAATGATCCCACACTCCGTCGGATGTGCTACT
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CAAAAGACATGACTGGGAAAGAAGACAACTACCGGGGCCCGG
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CATGTTGGGATCAACAATATTCCACCTGTCACCCTAGCAACTTTGGCCCTNAACATCTGG
TTCTTNTTGAACCCTCANAAGCCACTGTATAGCTCCTGCCTTAGTGTGGAGAAGTGTTAC
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AAGTAGAT
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Sequence=54;DNA;Homo sapiens

TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2

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CATGGCAGAGGCTGGGGATGCTGCGCTATCGGTGGCCGAGTGGCTGCGGGCATTGCACCT
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CCTCAGCGACACCCGCCTGATGGACATGGGCATGCTACTCCCT
Sequence=109;DNA;Homo sapiens

TABLE 2
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TGTCGACCCCGCGTCCGCGGGANGTTCATGGAAACGCAGGACACGACAGAATTGTGTNTG
CCTTGCCTATCACGGTACAGCACGAAGCCAGGCTCCTTTCTCCACCAAAGAAGATGGAAC
CAGACTGGAATTCTGNCTCCAGAGAGAAACCCAGCTGTTTGGGTCAAAGACAGATGCTTC
AGACTTGGGTGGGAAGGTGAAAGATGGNTATTTAGAAAGCTGGTGGCACGTTTTACATAN
GGGAATGTCAGATGGGAGATGCTNGTTGCCATTTTAACAAAGCAGGTNAATCGGTNAATT
TTAAACTCTGTCCATGTTCTGTTAGAACTCATGGACAAGGATCCATGAAAAAGACCTGTG
ATGTTTCNTCTGGCGCTTTACTGGCCTGGGCACACCTACCAATCTTTTAGGATTTGACTG
GTTCCATTACATTTCCT

Sequence=110;DNA;Homo sapiens
GTCGACCCCGCGTCCGTATCACTGTAATTTAAGGAAAGAAAACTTCAGTTCTGCCTCTGG
ATACCAAGATGCCCATTGCTCAGTTCAGACAACTGATATTAAAATAAAGCTATGCTCCTT
ACTTACTTCTTTTATTATAAACAAATTCCTTTGCTTTGGCTGATACTAGCTGAGTCATTG
ATCATCATTGGTACCATGATATTGTAATCTATGCTGCTATTTGGCACAAGACTGAAGTTC
ACACTACAGTAGAGAATACTATAAGATAATTTGCAATAAATACTGATAATAATAATACCA
GATATTTTAACTAACTTTTTCTACCTTTATTAATAGCAATCAGCACACTTGAATGTGTAA
ATTTCACAGTAACTTTAGGCAGAACTTAAGCTCCAGGCCACATTTGTATAAGAACACCAA
GTATTCAAGGCATAAAGTCTGTTGTAAGCCAAAAAAA

Sequence=111;DNA;Homo sapiens
AGTTCAGTCTGCAGCAGTCCCTGCACCCACTTCCCAGTTGCTTTCATCTNTGGAAAAAGA
TGAGCCCCGTAAAAGTTTTGGCATCAAGGTCCAGAATCTTCCAGTACGCTCTACAGATAC
AAGCCTTAAAGATGGCCTTTTCCATGAATTTAAGAAATTTGGAAAAGTAACTTCAGTGCA
GATACATGGAACTTCAGAAGAGAGGTATGGTCTGGTATTCTTTCGGCAGCAAGAGGACCA
AGAAAAAGCCTTGACTGCATCAAAAGGAAAACTTTTCTTTGGCATGCAGATTGAAGTAAC
AGCATGGATAGGTCCAGAAACAGGAAAGTGAAAATGAATTTCGCCCCTTGGATGAAAGGA
TAGATGAATTTCACCCCAAAGCAACAAGAACTCTNTTTATTGGCAACCTTGAAAAAACC

Sequence=112;DNA;Homo sapiens
CCCGCGTCCGCACCAGGCCCGAGTCTTCCCTTCATGGAGGGTGACGTGAGCAGCAAGGAT
AAGATGGGCAAAGGAGTGGATGGGACATATAAAAAAGCTCTTCAGGAAGCTGCAGCAAGG
TTTGAGGAATTAAAGGCCCAAAAAGAGCTAAGACAGCTGCAGGAAGACCGAAAGAATGAC
AAGAAGCCACCACCTTATAAACATATAAAGGGTCTCCCTCTGTGACCCAGGCTAGAGTGC
ATTGCTGCAATTTTGGCTCACTGCAACCTCCGCTTCGTGGGCGCAAGTGATTCTCCTGCC
TCCTGCCTCAGTCTCCTAAGTAGCTGGGATTACAGACATGAGCCACCAACGCCTGGCTAA
TTTTGTGATTGGCAAAAAAGAGATTTTGTGACACATAAAGATGATATGAAATTCAACTTT
CAATCAAGTATCCAGAAAATTTTA

Sequence=113;DNA;Homo sapiens
CCACGCGTCCGGCCCTTGCCCCTGTCNCACANGAATGGACCCACGGCCCCACCCAGCGCC
GTCAGCGCCCGGCACTGCCACCCGGGTCCGGGCCGCTGCCTGCACGTGGGATCCGTCGGG
CAGCCGGGGACAGAAGAGACCCCGCCGTTGGGACGCAGGGCAGAGCCGGCCACCTAGTCC
CTTCCAGCCAGCAGAGGCGAGGGAAGGCGTCACTGCCCCGGCGGGGAGACGGGCAGGACG
CCCTGCCCCGCACCAGCAGCCTCCGCCGGGGCGCCCTCAGCTCCCTGCTTGGCTCTGTCT
CTCCACACCCGGCAGGGCCCGCGGGCTGCCCCAGCCTGGGGGGGTCGTGGGCAGCTGCTA
CTCAGTGCCAACCCCGTGGGGCACAGA

Sequence=114;DNA;Homo sapiens
NAGGGAGTCGACCACGCGTCCGGTGCGGAGCAAGCATCACACCATGGCGTATGAGTGTTC
CTCTGTGTAGACTCAACCTGCGCCTCGCCGTCCCCCATTCGCACACCCGATGCCCGGGGG
TCGCTACGGACTTAAAATCTCCGCACCGCACCCTCCACCTCAGAAACGTTCCTGGATCCG
AACACTGCCCCCTGACGACCTAGAGAGATCCCGGCTCCCAGCCCACTGAGTGGCTTCAGC
CTCGCTGGTAGGTCTCTCCTCCAAAGCTCTGGAAACAGACTCCTGGGAGTGANGGTAGNG
GGGGAGCNGCAGGCACCGCCCCCTTTCCCCAAGTCCNCCGCCCACTTCATCCCTCAGGCA
CCTNCCAACTCCTGGCCTTNTCTGCACGAGGCGCCTGCCCCGGGCCCCGCCTACAGGGGA
CCCAGCTCTTCTTGCAGCCATTGGAAGNTGATCACCTGGGAGGTGA

Sequence=115;DNA;Homo sapiens
CACGCGTCCGGTTTTACTGCTCTTTGCCATGTGGTAAAAAGAGGCTGAGACATATTTAAG
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CTTTTTTATTTGATTTTGGAATTCAGGTGCACTCTATTCAAGTGCAAGGATATCAGAAGT

TABLE 2
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TTTTTTTTATTTAAAAAATTTTTTTTTCGAGATGGAGTTTCACTCTGTTGCCCAGGCTGG
AGTGCAATGGCAGCTTACTGCAACCTCCACCTCCTGGTTCAAGCGATTCTCCTGCCTCAG
CCTCCCCAAGTAGCTGGGGATTACAGGCACCGCGCCAACACACCTGGGCTTATTCTAATT
TAAGTAAGAAAATGGGAAGTCTTACCCATNTTTGGTCAAGGCTTGGGTCTTCGAACCTNC
TGACCTTAANGGTGATNCCACCCCANCTTTGGCCTCCCAAGCCGTGCTNGGGATTATAGG
GCATGAAGCCCACCCANGCCCGGNCCCAGGATTTTTATATTTAAGCCCTTCTTGCTCTTN
AAAAAAAAAAAAAGGT

Sequence=116;DNA;Homo sapiens
NGTCGCCNCGCGTCCGGGAACCTACCGGTACCGGCCGCGCGCTGGTAAGTCGCCGGTGTG
GCTGCACCTCACCAATCCCGTGCGCCGCGGCTGGGCCGTCGGAGAGTGCGTGTGCTTCTC
TCCTGCACGCGGTGCTTGGGCTCGGCCAGGCGGGGTCCGCCGCCAGGGTTTGAGGATGGG
GGAGTAGCTACAGGAAGCGACCCCGCGATGGCAAGGTATATTTTTGTGGAATGAAAAGGA
AGTATTAGAAATGAGCTGAAGACCATTCACAGATTAATATTTTTGGGGACAGATTTGTGA
TGCTTGATTCACCCTTGAAGTAATGTAGACAGAAGTTCTCAAATTTGCATATTACATCAA
CTGGAACCAGCCAGTGAATCTTAAATGNTCACTTAAATCAGAACTTTGCCNTTAANAAAG
AAAATTGGGGNGTCCTGGGTTTA

Sequence=117;DNA;Homo sapiens
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TTAAATTATTTAAAAAGATCATTAGAATCAAGTAAACCAATTTTGATGGCTATGATTGAC
TCAACAAGAGCTAATTATCCAGGTAAAACAATAGATAAAATTTTTGCTAAAAAGTTTTTA
GAAAAAACATTTTTAACAACAAAATCCACTTCAAGAATAATTGTCGGAGCATACGATGAA
GAGATGCTTTCAATTCAAGAAATCCTTGATTTAGCTTACAAATCAAACGTAAAGGTTGCT
GTATATGGNAGAAATTATGACAATCTTTTAGAAATGAATCAACGATTAGCACAAAAACAA
AATCTTGAAATACATTATCCAGAATTTTTTGATTTCAGGCAAGCTAATAAAATCGATAAT
TTTGTAATCTTAATTACATCAACACCTGGAGCGAATTTACCAAAGATTTTTTAGAAT

Sequence=118;DNA;Homo sapiens
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GGCGGCGGCGCAGGTGAGCAGGGCAGGGGGCAGCCGAGGGAGCGCGGGGAGCGGGGGCCG
GGGGGCCACGTACGAGGGGCTGCAGGCCCAGCCGGGGCGGGACTCGCCAATCCTGCGTCC
CCAGCTCAGGACGCGGACGCTGATCCGAAGCCCCTGGCCCCGGCTGGGTCAGCACTGGGA
GAGCAGGCCCAGGTCCGCAGCCCGGGTGTGGGGCCCTCCCCAAATCCAGGGAAAGGATCG
TGGAGCGGGGTGGGGACTGAAAGCCATTTCCTTTCCCGTGAAGAATTTTTATCAGTGCAA
GTAACAAAATATT

Sequence=119;DNA;Homo sapiens
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GTTGCCCCGCCACTGTGGCCTCCTTAGCTTCTTCCCTGGGGCCTGCTGGACCTTTCCATA
CTCCAGAAACTAAAGGGGGTCCAGGACCCTGCTTNAACCCTAGGATCCCGCATCTTTTTT
TTTTTTTTTTTGGACGCAGGGTCTTGCTGTGTCCCTCAGGCTGGAGTGCAGTGATTCACT
GCAGCCTCAAACTCGTGGGCTNAAGTGATTTCTTTAGCCTCAGCCTTNTAAGTAGCTGGG
GACTACAGTCATACACCAACATGCCCAGCTAANTTTCCTTTTTTTAATTCTTGTAGAGNA
TGTTTGAGACGGCTTGGGCTNTGTTGCC

Sequence=120;DNA;Homo sapiens
CCNCGCGTCCGTGCTGATAAAACTCCTTTGACCTGACGATTGCTCTAAGTCCTAATTGCC
ATATTTATATTCCCATAGTAAGAGTGTTTGGAGATAGTGTTTGAGCTTTTTTGCTGGTGT
TAAAAATGCATAATGAAAGATGGCACNAGAGAGGCATATTATATCCAATTCATGAAGTTG
TTTGTGTTAACAGAAAGCTTATTTTAATCACTTAACATTGTTGATTTGTCTAATCACAGT
AGCGCTATTGATTAGGAGCCTGACCTTTANATGGTTGACTTGTGAGTGTATTCAATATGG
TGAAATAANGGTGTTTGATATATGGCTGCAGATTTTAGAAGGTGTCATTAGCAAAGGTAT
ACGGAATAAAATANGGGTTATAGTATTCCTTACTCAAATTCTGTATGTGCTAGAGCTGGC
TGGAGTCTGTTGGCATGCTCATTTGGTGTAAGGNCCGNTAAGGACTATGCT

Sequence=121;DNA;Homo sapiens
GCCCCGCGTCCGCACTTTGTATTGATAACTTAAAATGGCATCAGTTTATCTTAGACATCA
GCTTGCTTTTTTATCTCCTTTTTTTAGTGAGTGAAATAGAGCAACTAGCATGCCTGTGTTCC
CAGCTACTTGGGAGGCTAAGGTGGGAAGATCAATTGAACCTAGGAGGTTGAGGCTATAGT

TABLE 2
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GAGCTGTGATTGCACGACTGCACTCCAGCCTGGGCAATGGAGTGAGACTCCTGTCTCTAA
AACAGCAACAACAAAAATAAAGCAACCATAGTGCATAAGGGAAATTAAATGTTCCCTATA
GAAATATGTGTATGTCTGTGATAAGTGGTATGCAAATGCTAATTATTTTATAAAATAAAA
GTTCAGAACTATTCTTATCATTGCCACTTGAACAATTAAAGGGTTTGCTTTATTTCCTAA
TGTTTAATAGGAACCCTTTGCTTCAAACAGCCTTTGTTGAAATCATGTAAAAATTTGTTA
ATAG

Sequence=122;DNA;Homo sapiens
CNCCACGCGTCCGGCGGCCCAGCCGCCGCCTCCCGTTCTCCCCTCCGCAGCGGCGGCGGT
GGCGGAGAAGGAACTCGACACGCACCGACCGCCCTCCCGCCCCAGCCGAAGCGGAAGCTG
TAGCCCGCTCTGGGCCGGGGCCATGGGCGCCCCGCGCCGCCCGGGTCATGAGGACGGAGG
CGGAGGCAGCGGGGCCGCCGCTCGAGCCCGGGGACTTTGTGCAACTGCCTGTGCCCGTCA
TCCAGCAGCTCTACCACTGGGACTGTGGCCTGGCCTGCTCCAGGATGGTGCTGCGGTACC
TGGGCCAGCTGGACGACAGTGAGTTTGAGAGAGCCCTGCAGAAGCTGCAGCTGACCAGGA
GCATCTGGACCATCGACCTGGCCTACCTGATGCACCACTTTTGGCGTGAGGCACCGCTTC
TGTCCCAGACCTGGGGTGTNGACAAGGGCTACAAGAACCAGTCCTTCTACAGGAAGCACT
TT

Sequence=123;DNA;Homo sapiens
GGAGTCACCNCGCGTCCGCCCCGCGTCCGCCCCGCGTCCGGTTAATCTTAGGCCTGAGGT
TTGGGGCCGGGTGACAAGGAAGTTAAACTCGTCCTCCCTGCCAGATTCTACCCCCTTTCG
GAGCTGAGCTCCAGCCAAACCTGTGGAGTTTTCTTTGACCATTTTAGGACATGTTACTGC
TTCTGAGTTGGCTGCCCCAGCTGCTCAAACAAGACCTTTCTCCTGGGTTCCTAGTAGTGA
AAAGGAGCAGCAGAGCAACTGAGGAGGAGGGCGGGTGGGAGGCATGGGACTGGGGCTTGG
GGAGGTCAGGCGAGACCGGGGTGAGAGCTCAGAGAAGCTCCTGTGACTTCCATGCTAAGA
TCTTGCCAGAGAACTCTGGTCAGTCCTCGGGTGTCTGGATGAAGTAAAGGAGTTAGGCAT
TTCTTCCTTTGATTCTCTGGCTTACCT

Sequence=124;DNA;Homo sapiens
CGTCCGGCCCGCTCCGGGCGTGGGCGTGTTCTCGGCGGGCGTGCCTGGAGGAGGAGCTGG
GTCCTTGTGCGGCTGCAGAGTCAGATGGGGCGGGGATTTCGGGGCACCGGGTCCTCACCT
TCACGAGAAAGGCCCCACAGCACGTCCCCACTACCCGACGACTCACTCTTCGTGGCTTCT
CTCTCCTCCCCAAGAGCAGGGGTGGGCCTGTCTCGCGTTCCCCTGCGGGAGTCAGGAAGC
GTCCTTCCTACCTACCAGTCCTCCCCTCTGGTGTCTGGGGACACTTCCTGGGGGCCTTTC
AGGTGGTTGGCGCCGGTGCAGGGCCTGAGAGCCTGGG

Sequence=125;DNA;Homo sapiens
GCGTCCGGTGGCATCATGACTTCTGGGGCAGTAGACTGAGCAGCAACACCAGCCACAAGT
CCTACCGGCCTCTCACCGTCCTGACTTTCAGGATTAACTACTACCTCTCGGGAGGCTTCC
ACCCCGTGGGCTTTCACGTGGTCAACATCCTCCTGCACAGTGGCATCTCTGTCCTCATGG
TGGACGTCTTCTCGGTTCTGTTTGGCGGCCTGCAGTACACCAGTAAAGGCCGGAGGCTGC
ACCTCGCCCCCAGGGCGTCCCTGCTGGCCGCGCTGCTGTTTGCTGTCCATCCTGTGCACA
CCGAGTGTGTTGCTGGTGTTGTCGGCCGTGCAGACCTNCTGTGTGCCCTGTTCTTCTTGT
TATCTTTCCTTGGCTACTGNAAAGCATTTAGAGAAAGTAACAAGGAGGGAGCGCATTCTT
CCACCTTCTTGGGTGCTGCTGAGTATCTTTCTGGGAGCAGTGGNCATGCTTGTGCAAAAG
AGCAAGGGATCACTTGTGCTGGGTTTAAAATGCCGGAATTTGACAATCTTTGGGTGATAG
GC

Sequence=126;DNA;Homo sapiens
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GGCGGCCCCTTTAAGAGCGCGCGGCCCCGCCCGCCCCCTCCGGGCAGGATCCGAATTCCA
GGGAGGCGGGGCGGAGACGGCGGCGAGGAGGAGGCCGCGGCGCGGGACGCATAGAGCTGC
GGCTCGGGCGGCGCCTCCTGCGGCGGCCCGGCCCGGCTCCGGCCCCCGCTGGGGCAATGC
TCCCCGGG

Sequence=127;DNA;Homo sapiens
TCGCCNCGCGTCCGGGCACACACATGCCAGGCTATTTTAAGAACTACTACAACTATGATA
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CTGTCAGAGAAGACAGTGTGTTGGCTCACATTGTGGTCAGTGCTGTTGAGCAAAATAGGT
CAGAGTAAGGGGGATGGAGACTGGTGGGAGGAATGCTGCTTTATCCAGGATGGGCAGGGA

TABLE 2

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GGACTCGATGGTGTCAGCACTGAAGGATGTAAGATCTGCTGCTCTGGGGAGAGGAGCAGC
ATGGAAGGAGTAGAGTGCAGAGGCCATGAGGAAGGATCAGGCTTGACTCCTTTGAGCAAG
GGGGATGGGAAGAGTGACGGNAGAAAGAGGGACAGGCCACATGGCCTGGTGGCCTGTGCT
GAGGCCTTGGGCTTTTCTTCAAGTGAGATGAGATGCCATTGGCCAGTTTGGGCAGTGATT
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Sequence=128;DNA;Homo sapiens

CGCCNCGCGTCCGAACAGGCCGGGCACCAAGGCGCAGGATTTCTATAATTGGCCTGATGA
ATCCTTTGATGAAATGGACAGTACACTAGCTGTTCAACAGTATATTCAACAGAACATAAG
AGCAGATTGCTCCAATATTGACAAAATTCTTGAACCACCTGAAGGCCAAGATGAAGGTGT
GTGGAAGTATGAACATTTAAGGCAGTTCTGCCTTGAGCTAAATGGACTTGCTGTCAAACT
TCAGAGTGAATGCCATCCAGATACTTGCACTCAAATGACAGCAACTGAACAATGGATTTT
TCTTTGTGCAGCTCATAAAACTCCAAAAGAGTGTCCTGCTATAGACTATACTAGACACAC
ACTTGATGGTGCTGCATGTCTTCTGAATAGCAATAAATATTTTCCCAGCAGGGTTAGCAT
AAAGGAATCATCTGTAGCGAACTAGGATCAGTATGCCGTAGGATTTACAGAATATTTTTC
ACATGCTTATTTTCATCATCGGCAGATATTTGGATGAATATGAAAATGAAAC

Sequence=129;DNA;Homo sapiens

GCGTCCGCGAAAGCTGGGAAGCCAGGTCTACCTGCCCCAGACGAATTGGTGTACCAGGTG
CCACAGAGCACACAAGAAGTATCAGGAGCAGGAAGGGATGGGGAATGTGATGTTTTTAAA
GAAATCCTTTGAAGATGATGCTGCTTTTTACAAAGCATCGTTTTAAAGCACATGGCCTTT
TTTTTTTTAATTATTAGTGGTAGTAATATATAGAATGTATTACATAACTGTCACTGAAGT
GGTTGGGGAAAATGTGGTGACTGAGGTACAGGAAACTACTAATCTTGCCATCTTGCTTTA
AGGTGTTATGGTGGCACAGTTACTGCTCGCCTGTTAAATTTCAAATGTCCTGTTTGATAC
TACTGGAGAACACTATTTTTAATACAGAAAAAGCTCCCTATAATGCACTTCAGAGAAATT
AA

Sequence=130;DNA;Homo sapiens

TCGACCCACGCGTCCGGGAGTCCCCCCTGCCCCCCATCAAATGCTTCCTGCAATACTTTG
CACACCAGAGACTGGGCCTCCCCAGATCCAGGGGGACAGGGGTCCCTGGGGGAGTCCCCA
GGGCCAGCCCCTCCAGGCCAGCTGCACACACTTGACACTGATTTGCACAGTCTTGCACAA
ATAGGGGGTAAGAGCCCAGTGGCTGGGGTGGGCAATGGGGGTAGCCTCTGGCCTAGGGAG
TCCCCTGGCACTGCCAATGGGCACAGTCCCGAGCACACACCCCCTGGCCCTGGACCCCCA
GGCCCCTGCCCCACCAAGCGAAGGCTGCTTCCTGCTGGAGAAGCCCCAGATGTCAGCTCT
GAGGAAGAGGGGCCAGCCCCTCGGAGGCGCCGGGGATCCCTGGGCCACCCTACTGCTGCC
AACAGTTCTGATGCCAAAGCCACACCCTTCTGGAGCCACCTGCTGCCTGGGCCCAAAGAG
CCTGTTTTGGACCCAACAGACTGCGGTCCCATGGGGCGGAGGCTGAAAGGAGCCCGTCGC
CTGAAAGCTTGAGCCCCCTTCGAAAGCCTNCGGAAGGGGCCAGGCCTGCTGAGCCCCCCC
AGT

Sequence=131;DNA;Homo sapiens

CGACCCCGCGTCCGTGAGAATTCAGCTTTGGAGTCCCGGGTGAGGGGTTTTAGATAAACC
CATCAATATCACCCACATTCTGTGACTCTTTGCATCACTCGTGTTATTTATTTATTTATT
TATATTCTGCCTTGTTCCAGAAAAGTGTTTAAGGCAACAACGCTTGTTTTTTGGTGTTTT
CTTTTGACATTTGAAAATTTAGTACATTGTTAAAATGTACTTGTTAAACAGGTAATTTTA
AAGAGAAGGAACAATTGTTTTTAGTAAGTTTTCTTTTTCCTTTTTCAATGAATTGATTCT
TCAAATTAAAAGTTCTTGAGAGAAGGAGAGGAAGATACAGCAGACATAGGACTGAGCCAA
GGAAGAGTCTGCCTGAGAGAGACGCTTGGCCTGTGCTTTGCTGCCATCCGTGCGGCCTTG
GCCACA

Sequence=132;DNA;Homo sapiens

TCCGATTTTTAAATCTATTGGCCGTGTTGTCCTACCTGAAGTTCTTCAACTGCCAAAAGC
ACAGCCCTTTTTCTCTGAGCTGGTGGTTCTGGCTAACACTGACAGGGGTCGCTTGTTCCT
GTGCAGTGGGCATCAAGTACATGGGTGTGTTCACGTACGTGCTCGTGCTGGGTGTTGCAG
CTGTCCATGCCTGGCACCTGCTTGGAGACCAGACTTTGTCCAATGTAGGTGCTGATGTCC
AGTGCTGCATGAGGCCGGCCTGTATGGGGCAGATGCGGATGTCACAGGGGGTCTGTGTGT
TCTGTCACTTGCTCGCCCGAGCAGTGGCTTTGCTGGTCATCCCGGTCGTCCTGTACTTAC
TGTTCTTCTACGTCCACTTGATTCTAGTCTTCCGCTCTGGGCCCCACGACCAA

Sequence=133;DNA;Homo sapiens

CGACCNCGCGTCCGGAAGGACCCTCTGAGCTATTTTGCGGCATACGGGAGCAGCAGCTCA

TABLE 2

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GGCTCCTCGGACGAGGAGGATAACATCGAGCCGGAGGAGACGAGTCGCAGAACCCCGGAT
CCGGCGAAGTCGGCGGGCGGCTGTAGGAACAAGGCGGAGAAGCGGCTCCCGGGACCTGAC
GAGCTGTTTAGGAGCGTGACTCGCCCGGCCTTTCTCTACAATCCGCTCAACAAACAGATA
GACTGGGAGAGGCACGTCGTCAAGGCGCCTGAGGAGCCTCCAAAGGAATTCAAAATATGG
AAGTCAAATTATGTACCACCTCCTGAGACCTACACCACTGAGAAGAAGCCTCCGCCTCCA
GAGCTTTGACATGGCAATAAAATGGTCTAACATATATTGAGGACAATGGTGATGATGCTC
CACAGAATGCTAAAGAAAGCTAAGGCTTNTACCA

Sequence=134;DNA;Homo sapiens

CGACCACGCGTCCGGGCTGGCGAGCCCGGCTGAGGAGCCTCTTGGGTCGCACTTACCGCC
GCGTCCGCTCCCGGTCCCTGGCCCCTCAGCGGCATGGCGTGCGGGGCGACGCTGAAGCGG
CCCATGGAGTTCGAGGCGGCGCTGCTGAGCCCC

Sequence=135;DNA;Homo sapiens

CGTGTCCGGTGAATGGGAGCGGAACTCACAGGACACAATGAGCCGGGTCACTGATGGCCT
TGCTTTCTAAGAATCTCACAGTGAGCCCTAGAACTCTCTACGTGGTAACACTGTGTGCCT
TTTTCAGAGAAGAGCCTATCTTAGATCTTAGCCTAACGTTGGGTCTATTGTGTTGCTGGA
GAGACCAGCACTGACATTCATCTCAAAGCACATGGTATGTTTGACTCCTATGTTGACTCA
ACTACCCATCTTGTACTGGGACACTCGCTTTTTTTTTTTTTTTTTTGAGACGGAGTCTTGC
TCTGTCACCGGGCTGGAGTGCAGTGGCACGATCTCGGCTCGCGGCAGCCTCCGCCTCCCG
GGTTCAAGTGATTCTTCTGCCTCAGCCTCCTGAGCATGTGGAGCTCAGGCTGAAGGTGAT
GTGGCCGCCC

Sequence=136;DNA;Homo sapiens

GTCCGATTGATTCTTCTATGATGCGTGTTCATTATACAATACACATTCTCGGAAAGGCAG
AATTATTTGCTTTTATGATTGTTTTTTGTGACCTAAGAAACGGTTCTTCCCCCATTTTCC
TATCCCAGGCCAAAAAATATTCTCTCACGTTTTTCTGTAAGAGCTTTATAAGTTCAGCTT
TTATATTGAGGTCTGTGATTCATCTTGGATTATTATGTGTAGGTTGTAAAATAGGAATCT
AGGTCCAGTTTTTCCATGTGGATATTCAGTTATTGTGGGGCCAATTGTTGAAAAGTCTCC
CCAAAGAACTGCTTTCTTATCAGAAAGATAAGATATATTAAAAGTGTATATCTAAGTCTG
GGTTCTCTTTTCTGTTCTAATGGTTGATATTTTTATCCTTATGCCAGAACCACACTGTCA
TGATTGCTGTAGCTTTATAATAGTCTTGAATCAAGTTGCTTTTCAGTTTTGTATTTTTCA
AAATTGCTTTCGGTATTCTAAGTCCTTTGCATTTCTGCTAAAATTTAGAAGCAGCATGTC
TACCAAAAGGAAAAAAAAAGCC

Sequence=137;DNA;Homo sapiens

TCCGGCGGAAGAAGGTGCGTCCGCGGCTGATCGCGGAGCTGGCCCGCCGCGTGCGCGCCC
TGCGGGAGCAACTGAACAGGCCGCGCGACTCCCAGCTCTACGCGGTGGACTACGAGACCT
TGACGCGGCCGTTCTCTGGACGCCGGCTGCCGGTCCGGGCCTGGGCCGACGTGCGCCGCG
AGAGCCGCCTCTTGCAGCTGCTCGGCCGCCTCCCGCTCTTCGGCCTGGGCCGCCTGGTCA
CGCGCAAGTCCTGGCTGTGGCAGCACGACGAGCCGTGCTACTGGCGCCTCACGCGGGTGC
GGCCCGACTACACGGCGCAGGTGCGTGCACCCCGTCCGCACCCCGCCCCTGCAGCCGCCT
GGTCTCCCCGCCTCCCCTCCTCCCTGCAGGTTTGCGTGGCTGAGGCTCCCACCTCCTGAC
CTCGGGGGCCGAGAGCTTTGCGAGCTGACCCCGCTTCTTCTGGCTTTGCAGAACTTGGAC
CACGGGAAGGCCTGGGGCATCCTGACCTTCA

Sequence=138;DNA;Homo sapiens

CCCGCGTCCGAGATCCTGTAGGTGAAGTTCTCCTGTGCTCCACAGCCACCCAGAGGAATT
CCAAAACCAGCAGTGGAGGACTTGGGGAGGACAGGAGGGAAAACATGGCGAGTTCATCAG
CTCTGTTTCCTTTATTAAAATATTTCTGTAATTGGTGGTGGGAAATTGAAGAAATCAAGT
GATTGCATCAGCGCTGGAAAAAGCTGCCAGCACTTGGCAGTGGAAGAGAATATATGCTTT
ATACTGGACTTTTTGAAAAAGAGGCTGAGTTTGGCCAGATTGCCGACCAGCAATGGAAAA
ACTAATTAGGTGCCTTGCCTGTGAGCCAGACGCCCAGCAGGGCTGTGGCGCATGGCTCCC
GCCGCCTCTGAAGAGGACACTTTCTAGTGAATTCAGTTCGTGCTACCCTTGAGCAGCCTG
TGCTACAGCAGGCACATTTGTGAATCTCCCAGCCTGTGCCTGGCGTCNGAACTGTAGCTT
CCCAAAGAC

Sequence=139;DNA;Homo sapiens

CGCGTCCGAGTAAATCTGTTCTGCACTAAATTATATCAAAATAAATATAAATAATTATTT
CGTATACCATTCGTTATATACATTTCAGTGTTTTTAATAATGTCAATTTCTTATATTTTA
AGGAGAACTCTAGTTATTTTTATAAATCTAATTGACTTAATTTTGTGGGAATATAAAAGA

TABLE 2

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AGTGATTAAAAACCTTTGGTTTAAAGTAGTTAATCCTGAAATCAAGCTCTGTAAATATTG
TGTAGGGATATGGAGAAATCCTCAAAAAGAAAGAGCTAAAGAAAATGGCAGGGATGGCAT
CTTGGGAGTATAACTGAAAGTAGGAAGATGTGGATAGAAGAGTCTTATTTTTAATCACAG
GGCATATGTGCTATTTGAATTATTTTGACAAAAGTATAAAAATATGGAATTATGCATTGT
GTGTGTGTGTGGTTTCATCTGTTTAAGAAATATGTGATGGAGACTGTCCTATCATCAGGA
AATTATTCCAGT

Sequence=140;DNA;Homo sapiens

GTCGACCNCGCGTCCGCGGAGACACCGACCGCGGCGGCAGCAGCAGCAGCAGCAGCGAGA
GGCAGAGGCGGCGGCGGCGGGGAGGACAGCACGGCCGAGGCTGCCCAGAGGCGCCTCCTC
CACACCCCCCGCCGCAGCAGCACCGGCGACAGATTTTTTAAAAAATGGATTTGGCCAACC
ATGGACTTATTCTACTGCAACAGTTAAACGCTCAGCGAGAGTTTGGTTTCCTGTGTGACT
GCACGGTTGCAATCGGCGATGTATACTTCAAGGCACACAAATCAGTTCTTGCTTCATTCT
CCAATTACTTTAA

Sequence=141;DNA;Homo sapiens

CCACGCGTCCGATCCTCCCCAAGGCAGAGGTGTGCGTGCGGAACCATGTCCAGCCCTACA
TCCCATCCATCCTGGAGGCCCTGATGGTCCCCACCAGCCAGGGCTTCACTGAGGTGCGAG
ATGTCTTCTTCAAGGAGGTCACGGACATGAACCTGAACGTCATCAACGAGGGCGGCATTG
ACAAGCTGGGCGAGTACATGGAGAAGCTGTCCCGGCTGGCGTACCACCCCCTGAAGATGC
AGAGCTGCTATGAGAAGATGGAGTCGCTGCGACTGGACGGGCTGCAGCAGCGATTTGATG
TGTCCAGCACGTCCGTGTTCAAGCAGCGAGCCCAGATCCACATGCGGGAGCAAATGGACA
ATGCCGTGTATACGTTCGAGACCCTCCTGCACCAGGAGCTGGGGAAGGGGCCCACCAAGG
AGGAGCTGTGCAAGTCCATCCAGCGGGTCCTGGAGCGGGTGCTGAAGAAA

Sequence=142;DNA;Homo sapiens

NACCACGCGTCCGCCNCGCGTCCGCTTGCACCCGGTGAAGAGCGTGCGTGTGCTGAGGCC
GGAGCCGCAGACGGCTGTGGGGCCCTCGCACCCCGCCTGGGTGCCCGCGCCTGCCCCGGC
CCCCGCCCNCGNCCNCGCCCCCGNCCNNGCTGCGGAGGGCTTGGACGCCAAGGAGGANCA
TGCCCTGGCGCTGGNCGGCACAGGCGCCTTCCCGNTGGACGTGGAGTAC

Sequence=143;DNA;Homo sapiens

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GAAGGCGAGCAAGAGATATNCTCTGAGAGCCAAGCAAAAGAACATTAANGGAAAGGGAAG
GAGGAAANGAAGGCTGGATACCGGNGCAGTGAAAAAAGGCACTTCCAAGAGNTGGGGGCA
CTCAACTACGCCACNAGACTCTGACCGGGTGGCCCAATCAAGCCAATGAAGAAACCTATA
ACCCGGNTTAACCTNTNATTGGCCTGCCTTCTNNNTNGGGGGGTGGGGGCCCAAGCCCNC
TTAACCCCCCAACCTTCNNTTTCAAACCTATCCCAACCTTATTCNAAAANGAAGGGGANC
CTNAAGGATGGGGNTTTCCCCCAAGGCNAAAAAGGAAAAAAAGGGGGCCCCCNNGGGAAG
CCTTCNTTCTTGGGGAAAAACAAGGCAAAAAAAATTGGAAGCCTGAAAACCCGGCTTCAA
AAAAAAGGGG

Sequence=144;DNA;Homo sapiens

CACGCGTCCGGCCTGCTGTTNACCTGCGGGACCCCAGGAACCTGGACTTGTTTCTCAAAG
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CCCAGGAGCTGGCCCGCTGGCGGGACCAGGAGGAGAAAAGGGGCCTGAATATCATTGAGC
AGCAACAGAAGGAGCCGTGCAGACTTCCAGCCTNCAAAATGACCCACAAGGGCGAAGTGG
AGATTCAGCGGGACATGGACCAGACACTGACCCTGGAGGATCTGGTGGGACCGCAGATGT
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Sequence=145;DNA;Homo sapiens

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GATTGTAAACATCCTCTGACGTTCCGGCTGCTGCGCAACGGCCAGGAGGTTGCAGTATTG
GAGGCATCTTCTTCTGAAGACATGGGCAGGTGGATTGGGGATTTTACTCGCAGAGACGGG
GATCGTCCACAGACCCGGAGGCTCTGCACTATGACTACATTGATGTGGAAGATGTCTGCA
ANGTGTCATTCAGACAGGCCAAACAGACCTTTCTGTTTTTATGAACAGGGCGTGTTATAT
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TABLE 2
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Sequence=146;DNA;Homo sapiens
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CTTACTACGTGTAGGTCTCAATACAAAGTGGGANATANTCATATCCGTCCGCGAAAAGTA
ATTCTTGGAAAAATTTACCCTTGTCTCCCGCNTTATGAAACGTGAACTAAGTAACTCACT
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CTGAAAACAATGTGGTCAACAAACTGACTATGGAGGTCTTAGGCTCNGTCTCTAAGATCT
TTAACCTTGTTTATCGGCGCGTGCGGCGTNGTCCGAACGAAGAGACTATAACCCGCACTA
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Sequence=147;DNA;Homo sapiens
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TTACAAGGTGTGAGGCATTGCACCTGGCTTAGCCGTCTTGATTTGACATTGTAATGAAAA
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GGAAGGGGGAA
Sequence=148;DNA;Homo sapiens
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GGGGGTCGCCCTTCTGAGGAGGCTGCGGCTAACAGGGCCCAGAACTGCCATTGGATGTCC
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AGTTGTTAAAAACAAATAGGA
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TCCACCCGCCTCGGCCTTCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGTGCCCAGCC
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GGAGAGCCGCCAGCATTACCCCTGCCTTAGGAGGTAGTCGTCTCCTCATCACTACAAGGT
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TABLE 2

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Sequence=152;DNA;Homo sapiens
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GGGGCGGCGGACCGGACTGGGGCCGGGGTAGGCTCTGGAAAGGGCCCGGGAGAGAGGTGG
CGTTGGTCAGAACCTGAGAAACAGCCGAGAGGTTTTCCACCCGAGGCCCGCGCTTGAGGG
ATCTGAAAGAGGTTTCCTAGAAAAAGGGGTGTTTCCTCTTTTCGGGGGGTCCCTCACCAA
GAAGAAGGTTCTTTGGGGGGTCGCCCTTNTTGAGGGAGGCTTGCGGNTTAACAGGGCCAA
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Sequence=153;DNA;Homo sapiens
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ACCACATGGCACAGAACACTAAATTTTGGTCCCATGGCTGAAACTTGAGGGTGACTAAAA
GTAATGCCTGTGAAACATGATATCTATCTGGGATGGCCATTTGATCTCTAAAAGGAATTT
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Sequence=154;DNA;Homo sapiens
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CTATTAATCCTCTTACAGATTTGAGAAAGTTGATTCTCAAATATTTATGCACCTTCTCCT
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TGACTTAACTAGGAGAAAAAGGCATGATAATACAGGCAAGATGGCATTGTTAGCAATTCT
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Sequence=155;DNA;Homo sapiens
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TAGGAGAACTAATTTAGGGCATGTCTTTTGCTGAATCCCGTCAGCATATTTAACAAATTC
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AGTGATTAGTATGTTCCAGGCATTGCGTGAGCTATTTACTGTGAGTGATTTAATGTTATC
TTCCCAGCAGACCTCTGAGGTAGGGTACTAGTATGATCCCCATTTCGTACATGAGGAAAC
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GGTTTTAATTGGAAGCCCATA
Sequence=156;DNA;Homo sapiens
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GCCGGCCCGGGCCCGGGGCGAGATTGGGGGCCTGTCGCTGTCGCCATCGCCCGAGCGCAG
GAAACCGCCGCCACCTGACCCCGCCACCAAGCCTAAGGTGTCCTGGATCCACGGCAAGCA
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TABLE 2

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Sequence=158;DNA;Homo sapiens
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GGTTAGGACACAGGCCTTGGAAGGTTTTTTGAGTGTGAAATATTACTCAGCGTTTTCTGC
AGACCTCGCGGGCAATGCCGCTTCTAATTTTATCCAGGCCTTCTTCTGTAGGGAGGGCCT
GTTAAGAGTTGAGCAGCCCGATTTCTGAACCCCTCTAAAAAGCTGTGGCTGATTGGTGGC
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CTCGCTTTA
Sequence=159;DNA;Homo sapiens
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CAAACTATTTAAATCAGTAGAAGACATTTTTACTATTAAGAATAAAAAGTTATAATATAA
AATGGATTAAATGCCAGATTATATGCTAAACAAGTCCTTTAAATTTTTAACTTAATATTT
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Sequence=160;DNA;Homo sapiens
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Sequence=161;DNA;Homo sapiens
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Sequence=162;DNA;Homo sapiens
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TACATTGTATTTAACTTGAAAAATTCCTGGAAATATACCTGATAATTACCACCTGAGGAA
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CTGCCAAGTGATACAGAACCTTCGTTCTGCTGCTTTGGGGACAGGTGATCCTAGCCCCAG
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ATTATTATTT
Sequence=164;DNA;Homo sapiens
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TGAAGCGGAGGTCAGATGAGGCCCTGGAGCGCTGCCAGATCCTAGAGCTGCTCAATGCAG
AGCTGGAGGAGAAGATGATGCAGGAGGCTGAGAAGCTCAAGGCCCAGGGTGAGTACAGTC
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TABLE 2

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AGAATAGCAGCCTCT
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TTGCAGAACCTCCTGGTCCCTGCAGATTCCTGGAAATCAGAATATGGTGGTTGNAAAGAA
TCTTGTGGCTGGGCGTGGTGGCTCACGCCTGTAATCCCAGCACTCTGGGAGGCCGAGGCG
GGCAGATCGCCTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGCGAAATCCCGTC
TCTACTGAAGATAACAAAAATTAGCCGGTCATGGTGGCGCCCGTGCCTGTAATCCCAGCT
CGGCAGGGCCGAGGCAGGAGAATCGCTTGAACCCGGGAGGCAAGAGGTTTGCAAGTGAGC
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AAGG
Sequence=166;DNA;Homo sapiens
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Sequence=167;DNA;Homo sapiens
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GCAAAAAGAAGGTGGCAGACTAATGTAGAATGGTGCAACCAGATGAAGACATGGGTGGCT
TTAGGAATTCCAAAGTGGCCGTGAAGGCCAGGCACGGTGGCCCACGCCTGTAATNCTAGC
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ACCAGGTGAAACACCATCCCTACAAAACAT
Sequence=168;DNA;Homo sapiens
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Sequence=169;DNA;Homo sapiens
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Sequence=170;DNA;Homo sapiens
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Sequence=171;DNA;Homo sapiens
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TABLE 2

29/3461

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TT

Sequence=172;DNA;Homo sapiens

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GCCATCAAGAAAGATCACGGAGTATATTCTAGATGGGGAGGCTACTAAGTGAATAGGAAT
CACCACGCTGGGCTGTTTATTAGGTACAGTAATAAACATAAGTACTGGTTGCAAAANAAA
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Sequence=173;DNA;Homo sapiens

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ACATCTACAAATTGATATGAAAAATTATTTTGAAATGCACACTGCAAAATGGTGAGAATA
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CATAACTTTCTTAATAGCAATGGTTATATATGTGGCCAGATAGTATTCAGTTTCACAGTA
ATGTCTCGGTCACATAAAGATAGCANAGCATAGACATAGTACAACAATTTATTATTTCTG
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Sequence=174;DNA;Homo sapiens

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CCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCCGGC
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Sequence=175;DNA;Homo sapiens

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GGCTGGTTGTCAGGACAGCAGGTGAGCCACTTTAGGGAAGAAAGTGCAGGGGTGGGTGGA
TGCCCAGATTACCAAGGCCAGCCACCCTGATGGGGTAGGGTCTGGTTATCTGTGTTCAAG
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Sequence=176;DNA;Homo sapiens

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TABLE 2
30/3461

Sequence=177;DNA;Homo sapiens
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Sequence=178;DNA;Homo sapiens
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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=215;DNA;Homo sapiens

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Sequence=216;DNA;Homo sapiens

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Sequence=217;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2
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TABLE 2
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TABLE 2
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TGCTGATAGCAGAAAGTCTTCCAGAAAGAAATTAGGCGACCCACACCAAGCATGTATGGC
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GTTCCGGTCAGAGAGTCTAAAAATTCACATTTTACCTAATAAATGATAATGAGGCTATTT
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Sequence=245;DNA;Homo sapiens
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Sequence=246;DNA;Homo sapiens
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CACACCGTGGCCGGGTCCTCCTGGGCGGAGCGCTTTCCGTGTGTGGGAAAGTCAAGGGCA
GCCCCGAGCCTCGAAGCCCAGGCTCCCAGCCCCGCGCCATGTTGCATTCCCGCCTCTACT
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GNGTCTCTTGTGTGTGTGGTGCCGTCAAAGCTGTGCAAAGAAATGCTTCTGCCTAGGTTT
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Sequence=247;DNA;Homo sapiens

TABLE 2

42/3461

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Sequence=248;DNA;Homo sapiens

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TTTGTTTTTGTTTTTGATTTCCAGGTGGCATTAAAGACAAGAGGGAATAATATTCATTCT
TACTTCTACTCCCAAGTCACTAGTTTGCTGAATTTAATTGAGTTAAAGAATTGTATCAGT
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CCAGAATTGAAGGATGGATAAAATGAGAAAGAGAAGTAGTTCTTCATATTATTAAAATAA
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Sequence=249;DNA;Homo sapiens

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AATTAAGCTGTAGTATGTACCCTAAGACGCTGCTAATTGACTGCCACTTCGCAACTCAGG
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Sequence=250;DNA;Homo sapiens

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Sequence=251;DNA;Homo sapiens

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GGCGGGGCTGACCAGGGTTAATTAGAGGGAACTGGCTAGGAGGAGCTGGGGAGGGGGCTG
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Sequence=252;DNA;Homo sapiens

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Sequence=253;DNA;Homo sapiens

TABLE 2

43/3461

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Sequence=257;DNA;Homo sapiens
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TABLE 2
44/3461

Sequence=259;DNA;Homo sapiens
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Sequence=260;DNA;Homo sapiens
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Sequence=265;DNA;Homo sapiens
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TABLE 2

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ACCCAAAAACTGTAAAACCAGCAAAAGATTCTA

Sequence=266;DNA;Homo sapiens

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Sequence=267;DNA;Homo sapiens

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Sequence=268;DNA;Homo sapiens

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Sequence=270;DNA;Homo sapiens

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Sequence=271;DNA;Homo sapiens

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TABLE 2

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Sequence=272;DNA;Homo sapiens

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Sequence=273;DNA;Homo sapiens

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Sequence=274;DNA;Homo sapiens

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Sequence=276;DNA;Homo sapiens

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Sequence=278;DNA;Homo sapiens

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TABLE 2
47/3461

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TABLE 2
48/3461

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TABLE 2
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TABLE 2

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TABLE 2
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TABLE 2
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Sequence=317;DNA;Homo sapiens
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GAAGCTATGTTCCCAAAGAGGGCCAGCTCCATTTAGTGTTTGTTTATAGCCTTACTATGC
CTCTACCTCTGGGGGTTGTAAATCTGTTNTACCCAATGGGNGGGTTTGTTNCCCTTCCTG
AANCAAATTTTTCTGCTTNNACACTTGGGCAAACCNTTTCCTAAATTTCATCCTCCCANA
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TABLE 2
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AGCAGTTCTCAAAGAAAGAAGTTCAGGGAAGTTGAAATACGCATACTCGGCATCCTTGAA
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Sequence=325;DNA;Homo sapiens

TABLE 2

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Sequence=326;DNA;Homo sapiens

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Sequence=332;DNA;Homo sapiens

TABLE 2
55/3461

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TABLE 2
56/3461

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TABLE 2
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TABLE 2
58/3461

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TABLE 2

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TABLE 2
60/3461

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TABLE 2
61/3461

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TABLE 2
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TABLE 2
63/3461

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TABLE 2
64/3461

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Sequence=396;DNA;Homo sapiens
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Sequence=397;DNA;Homo sapiens
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Sequence=398;DNA;Homo sapiens
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TGCCCG

Sequence=399;DNA;Homo sapiens
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TTAATGATATGGTAAAGAGATCTAGCTTGGTCATGACACCCTTGTGTTATACGGTGACAG
GCAAATCATTTAAAAATATCTAAACTATAATTTCCTGTAGTTCACATGAATTGGATATTC
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Sequence=400;DNA;Homo sapiens
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Sequence=401;DNA;Homo sapiens
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Sequence=402;DNA;Homo sapiens
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TTTCTTTTACTGTTAATATCCTTATTCTCTATTTTACCAGTGGAGAATGNTTAGTATTAA
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CCTACTGTCTTCTGNTTTGGAAGTCCCACAACAGCTCTTTAATTTCCTTAAGCCCCACTT
TCCTCATCAGCAAGTTGGTGTGGCAATGGATCATAATAGGTTGCTGGGAGGATGAAGTGA
GCGGACCGCGTGGGTCGAAGCTTGTACCTN

Sequence=403;DNA;Homo sapiens
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Sequence=404;DNA;Homo sapiens
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AGGTGATGTAAGATGCGTGGAGCAGATGCCAAGCCACAGGGAGTGGTGGAGACTGGGGTG
AACTGGAAAGCACCT

Sequence=405;DNA;Homo sapiens
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TABLE 2

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TGAAGATTTACTTTGTATACTTCAAAAGATCTGGTCATGAAATTTTTAGCTAATACATAA
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GTCCACAAAAAAACACCTNATGGTCACACTTAAAATAGTTTGCATCCCACACTACAGGCT
TCTCTGGAGGGATTTAATACTTTGG

Sequence=406;DNA;Homo sapiens

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GCCAAGCCACAGGGAGTGGTGGAGACTGGGGTGAACTGGAAAGCACCT

Sequence=407;DNA;Homo sapiens

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AGAATGCTTGTATGTGACTAAAATTATGTTGGTATCAGTTTAAAATATATTATTATAACT
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GACTGAAAGAGATGTANCCTTTACTGATTTACGAAGAATGACCACAGAACGAGATAGTCT
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Sequence=413;DNA;Homo sapiens

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TABLE 2
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TABLE 2
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TABLE 2

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TABLE 2
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GGGTCGAAGCTTGACCT
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CTCTTCTGGACAAAGATGACAGCCCTTCACTGGTATCCTCGTCTNCAACCTAATTTATNC
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Sequence=451;DNA;Homo sapiens
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TABLE 2
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TABLE 2

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Sequence=460;DNA;Homo sapiens
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Sequence=461;DNA;Homo sapiens
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GTAAAAAGACACCTTGTGGTACCTAAAATAGGTTTATGGTACCTATGGAATTGCTTCTAT
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TABLE 2

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CTN
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TABLE 2

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TABLE 2
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TATGCTTTAGCAAATCTCAGTTTGGACCATTTCAGGTGGTCAGCAATTACACATGGCTAG
AACTAAGAGCAATCAGTTTTNTTCCACAGTTTTTCTAAAATTTTCTTGTCAAAAATCTTG
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GGGTATGGGTTTTAAAGCTGGTACCTNGGCCCGNTCTAGAACTAGGTG
Sequence=492;DNA;Homo sapiens
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ATGATATGGTAAAGAGATCTAGCTTGGTCATGACACCCTTGTGTTATACGGTGACAGGCA

TABLE 2
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Sequence=493;DNA;Homo sapiens
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TCTAGGATGAAAAAAAAAAAAAAAAAAAAGT
Sequence=494;DNA;Homo sapiens
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ACTTGGGAATCTATTTTCACTGCTCTCCAAAGTTTTGAGAAGGCAATAGTCCTGGAAAAT
GGGTCCTGAGCTCCTCTCAGCAGTCCTGCTTTCTTTCCACCTGCACTGTAAGGNGACCCT
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Sequence=495;DNA;Homo sapiens
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TCCAATATCTAAATTATTGTTGGAAATACTCNTCCTGAAGNGNTCATTTGAACNCTAAAG
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TABLE 2
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TCACGTGTGCGGTCATATCAGGTAGAGATGATGAGTAGAGATCTGCCCTAGAAGACACTG
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TABLE 2
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TCTAAATATTGTTGATTTAGATAACCACCCTAGATTTCTCACCACCCTAGAACATTTAGT
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TGGTATTTCTCAGCTAAAATCTCCCTTATGAACCCTTCTCGAAATCC
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TABLE 2
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AATAAAAAATGAACCTTAAA
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AAAATGCATGTTGATATCTCCTAACTATCACACAACTTCCACTATTACAATGAAAAATCT
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TABLE 2
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TABLE 2
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ATTTATTAAGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGGCGTGTATAATT
GATCTTAACCACAAGGCTGAGAAGTTATGTGCAGGGCTTATGATGCTACTTCCAAAGTAT
TAAATCCTCCAGAGAAGCCTGTAGTGTGGGATGCAAACTATTTTAAGTGTGACCATGAGG
TGTTTTTTTTGTGGACCATTTTAAANCCAATGATAGGTTCTAAAGCAATCTCAACCTGAGT
TAGG
Sequence=539;DNA;Homo sapiens
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGGCTTCGACCCACGCGT
CCGCTCCAGGAGACTTCTGCTTACCTCTCAGTGATCAAAAACCGTTTCACCACAGTTACT
TACCACGTCCTACCGATCCGCATTCTCGCAAGTGTCCTTCACTCCATTTACTCTACTGCA
TTTTTCACTGTATTTCTCATGCCAAAACTTGGGCTTCTCCACCAGTCTGCACACGTTCAT
GCTCTCAATTCTCACAGCCATCTATTTCATTCTCCACTAAACTGTTAGAGGGATTTCTGN
AGAAATTAAAGAAATTCCTATCACTCCTAAAAAAAAAAAAAAAAAGTGCGGCCGCTCTAG
AACTAG
Sequence=540;DNA;Homo sapiens
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCACG
CGTCCGCAAGTTTTCAAAATGTAAATACTTCCTCTGTTTAACAGTCCTTGGACCATTCTG
ATCCAGTTCACCAGTAGGTTGGACAGCATATAATTTGCATCATTTTGTCCCTTGTAAATC
AAGATGTTCTGCAGATTATTCCTTTAA
Sequence=541;DNA;Homo sapiens

TABLE 2
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CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCTTTATTTATTTCTT
TTAGGAATTGCAGGTTCCTAACAAAGTAGGGGTGAGGGGGGTGTTACAAACCAGTCACTA
GGCAGGAACATTAGACTCCAAAAGCAGAGAAATGCTTAATTTTTCTTCTACCTGTTTCAC
CACATTCATGTANAACTGTAGTAAAAAAGATGGNGAATCAGGCTGAATCAATCTAAATAA
CAACTTAAGGCTCCCAAATCACATGAACCTAGGACCACTAAATCCAATGTCAGACGTGTT
TAAATGGNGCACTGCTCTACATTTTTCTATTATGCAAAGAGCTAGAAAATAATGGTAGTG
TCATTATGACATTCCATGAAAATGAAGAAAATCTTTCANGAAAAATTTAGAAAATAAAAA
TGTTTACT

Sequence=542;DNA;Homo sapiens
TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGCCAAAGCCTTAACT
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TTTACTGNTAATATCCTTATTCTCTATTTTACCAGTGGAGAATGTTTAGTATTAATTTCC
ATTTAGCTCAAGATTCAAGAAATGCAAAGTGCTATTTTTATCAAATTTCTGAAAGCCTAC
TGTCTTCTGCTTTGGAAGTCCCACAACAGCTCTTTAATTTCCTTAAGCCCCACTTTCCTC
ATCAGCAAGTTGGTGTGGCAATGGATCATAATAGGTTGCTGGGAGGATGAAGTGAGCGGA
CGCGTGGGTCGAAGCTTGTACCT

Sequence=543;DNA;Homo sapiens
CTACTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCAGTAATCACATA
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TGTTGTTATTNCAGTCTTTTTCTTATTGGGTTGACCAGACTTGGTAAAATCTGTAAGAAA
GTTCCATAAT

Sequence=544;DNA;Homo sapiens
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTTCTTCAGATTCAAAT
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GAGCTAATCTGTGATTTCTTAACTTGAGAAAATAATAATNATAACCACCACTGGAACCTA
CATAGGTTTGTNGNTTATTTAACATGACTTAACCTTTTGTTTGTATTTTTTTGAAAAAAA
AAAAAAAAAAGTGACCTGCCCGGGGCGGCCGGACGGCCGGGCAGGTCGCNCTCAAATTNT
TNAATTTNTTTTGGAAAGACANGNATTTTTTATTTTTGCCAANGCTAAAACTTNACNCTG
GGCCTTTAAAGGGGATTCCNTNCTGGCCTTTGGGCCNCCAAAAAGTGCTTGGGATTNTTN
GGGTNNAAACCCCGGNGGGGCCCTAGCCTACCAGTTTTTTTAAA

Sequence=545;DNA;Homo sapiens
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TGTGGTTGTATCTTTAGTTTTGTAAAGAATTGCCAAACTGTTTTATAATGTGGGTATATC
TTTCCACACTTCCAGCACAATGTATGAGTGATCCAGTTTCTTAGCACCATAGTCAGAATT
TACTGTTGCTACTATTTTTTAGCTATCCTGATAGATGTGTAGTGATATTTTATTCTGGTT
TTGAAGCAGTGTCATTGTCTGGGGTAAATCCTTGAGGTTTGTTGTCTCAGTCAAGGGGAA
TCAAGGGACATGGACACACAAGTAGTGAATTTAAGAGTGGAAGTTTAATAGGTGA

Sequence=546;DNA;Homo sapiens
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGAC
CCACGCGTCCGTCTTATTTTTTACTCTTAGGCAATGCGGAATATCAATCCCAGCACAGCA
AATTCTCCAAAATGTCAGGTAGGCTCTTATCTGATGTTTTAGCACTGGAAAAAAAAAAAA
AAAAAAAGT

Sequence=547;DNA;Homo sapiens
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGGCAGGTCAAGCTTCGAC
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TCACTAAAATAGAAGCAATTCCATAGGTACCATAAACCTATTTTAGGTACCACAAGGTGT
CTTTTTACACAGCTCATTTGAATACAGGTGTTCTGAGAAGGGGTTTCTATTTTAAAATTA
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ACTGTTTGGGGAAGG

Sequence=548;DNA;Homo sapiens
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ACACCAGGAAAACTTAGAACTTTGTGTGAAATAGACTGGCCAGCATTAGAGGTGGGTTGG
CCATCAGAAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATGACACAAGGTAACCCGT

TABLE 2

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AAGCCAAGGCACCCAGACCAGTTTCCATACATAGAAAGTTACAGCTGCTTTTATACCCCC
TTGCCCCGCCAACGTAGTTAAGAGAACAGCAGCATAAGCGGCTGGCAGAGGCAAGGAAAG
ACCAGTNNAGAGAAAAAAAGGCCATCTATACCAATTCTAAG

Sequence=549;DNA;Homo sapiens

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGAGCGGCCGNC
CGGGCAGGTACACAAACCAGATGTATGCANTGATGCCAAAAGTCATCTNAAAATTCCAAG
CTGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCTTGAAGATTTACTTTGTA
TACTTCAAAAGATCTGGTCATGAAATTTTTAGCTAATACATAAAGNGCCGAATTGAAATC
CAGAATACAATAGCTNTGAAGGGCCGCTAGAGTGCAGATAACCAACCCATTCTACCTAAC
TCAGGTTGAGATTGCTTTAGAACCTATCATTGGGCTTTAAAATGGTCCACAAAAAAACAC
CTCATGGGCACACTTAAAATAGTTTGCATCCCACACTACAGGCTTCTCTGGAGGGATTTA
ATACTTTGGG

Sequence=550;DNA;Homo sapiens

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AAACCAAAGCCAGTTACAAGGAGTAATCTCTCCTGTTGGTTTACCTTCACCTCANAACTA
CAAGAATATTACAATACATAGTGAATAGTTGTCTGTAACATTTCTACCAGTTGTTTCANT
AGCATATTGGTCTTGGCATTTCTTGGCACTGTGGTTCTGCTGTATTATTTGTGATGTCTT
ATTGTTTGTGAGCTTTTGTTTTTTTTTAAAGAAAAAACAAAAACTAAGTG

Sequence=551;DNA;Homo sapiens

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AATTCTGCAATCATCTGTTTATTTAGCTTAACTGNTTTTTTTTTATTTGNTGAAGTTGTTG
TGTGTTATTTCAGNCTTTTTCTTATTGGGTTGACCAGACTTGGTAAAATCTGTAAGAAAG
NTCCATAATTATGGGGAAGATTTCCTCTGAATTGGCTAAATTCCTGTAGCTGAAAAAAAA
AAAAAAAAAAAAGT

Sequence=552;DNA;Homo sapiens

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CCGCAAGTTTTCAAAATGTAAATACTTCCTCTGTTTAACAGTCCTTGGACCATTCTGATC
CAGTTCACCAGTAGGTTGGACAGCATATAATTTGCATCATTTTGTCCCTTGTAAATCAAG
ATGTTCTGCAGATTATTCCTTTAA

Sequence=553;DNA;Homo sapiens

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TTCTGACAGGCCTCAGAAGAACATTCCCTACCCCAAAATTATAAAAATAATCTTGTATAT
ATTCTTCTCAAAACTTTATACTTTTTTTAAGGCTTGGATTTTTAATCTATCTGGAATGTA
TTTTTAAATACTGAGTGAGTCACTTTTCTCCCGGACGCGTGGGTCGAAGACCT

Sequence=554;DNA;Homo sapiens

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AAACCTTTACCAGGCTNTATAACANGGGGACCAAACTTGNTTTTGCTCATCATTGCCGGA
CG

Sequence=555;DNA;Homo sapiens

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TTTTTGGAGTTTCAGCTTGCTTCCAACAGGGACGGTGAGTGTGAGGTTTATTCCCATTTC
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TTTGTCTTGGAAATTCTCCTTAATGACTAAAAGTTAAAGAATTAAACAACCTAGCTGGGC
TTAAATTTCTTNCTTACCCATTAGAAGTACCCTTGCCC

Sequence=556;DNA;Homo sapiens

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GTGTTGGGATTGCAGGTGTGCGCCACTAGGCCCAGCTTGAAAAATTTTTAATGCATGTGG
TAATCCACAGGAGATCACATTTAGTATATGACCAAGTTAATTAAGAAGNCAAAAAACACG
TTAAATTTAAGCAGAATAAGGCTGGGTTCGGTGGCTCATGTTAGTTTTTATCCTTAAAAT
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TTTATATGTCCCATTATG

TABLE 2

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Sequence=557;DNA;Homo sapiens
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CTGGGTTATCTGTAGCTTGAGTTGTAAAAAAAAAAAAAAAAAAAGTGCGGCCGACCT
Sequence=558;DNA;Homo sapiens
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TGCTAGTATAATCTCCACAACTTGAATGGCATTGGTTGTTCTGTAATTCCTGCCAAAAGC
ATCACAAGTTGTACCTGCCCG
Sequence=559;DNA;Homo sapiens
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CAGGAAATTATAGTTTAGATATTTTTAAATGATTTGCCTGTCACCGTATAACACAAGGGT
GTCATGACCAAGCTAGATCTCTTTACCATATCATTAATAAAAGTCAAATTTTAAATTTGT
GCCCAATTTGGCTGGGTGTGGTGGCTCATTCCTGTGATTCCAGCACTTTGGGAGACCT
Sequence=560;DNA;Homo sapiens
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CAGCCTCCCAAAGTGCTGGGGTTACAGCCGTGTGCCACTGTGTCTGGCCCTTTTCTTTTT
CATAGGAGAAGGGTTGTTGACTCCCAGGAAACGTCACCTGGAACCAAGAATGTGAACTCA
AGGACCCCCGCCTGTTGGCAGCTGCATTTACTTGACTCCTGTTCACTGTTTCTTAGCCTT
GTCCTTTCTCTCCTGCCAGTTCTAGGGGACACTGCTTCTCCTGGTTGACCTC
Sequence=561;DNA;Homo sapiens
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TTAAAAATAATTGGCATAAAAATTCAATCAATTCATAAAAGTCCAAAGCAAAAAAAACAA
ATCTACTGACATCTCTTGAGGAAGAAATGATCAGGATTGACATTAATGAACCCTCTCACA
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Sequence=562;DNA;Homo sapiens
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TAGAGCGATTTAGTATTTTGACAAAAATCTTATGAGACATGAAGTCATTCAATTTGCCGG
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Sequence=563;DNA;Homo sapiens
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GTGCTGGGATTAAAGGCGTGAGCCACCACGCCTGGCCAGGAGATTCTTAATTATTTCTGA
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TGCCCG
Sequence=564;DNA;Homo sapiens
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TCCCTGTATTCAAAGCCCCCAAACCCTGCATTCAGATACTATGCATTTAGACTTCCTTAG
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Sequence=566;DNA;Homo sapiens
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TABLE 2

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ATAGAGTTCAGAAATAATTAAGAATCTCCTGGCCAGGCGTGGTGGCTCACGCCTTTAATC
CCAGCACTTTGGAAGGCTGAGGTGGGCGGATCACGAGATCAGGAGATTGAGACCATCCTG
GCTAGCATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAAAATTAGCCGGGTGTGATG
GCGACCT

Sequence=567;DNA;Homo sapiens
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ATTATAGTAGAGCACCAAGGTGATCTGTTCTTCTGTTCTTCAGAAGTTCACTATTTCTTG
TTGCAACAGGGCTACATGATTTTAAGATTCCTCAAAGTCAATACGAATTAACATTATTTT
CCATTTCCATTCTGTATATCTTCACATTCCATAAATATAATACTCATGTATACGTTAAAT
TTCCTTATAAGTTCAACACATTGAAAGCTAAAATAAAGACTTCCTACTAG

Sequence=568;DNA;Homo sapiens
CCGGGCAGGTACACAAACCAGATGTATGCAATGATGCCAAAAGTCATCTCAAAATTCCAA
GCTGACCTAGTGCAACACATTTACACTTGGATAAACTATCACCTTGAAGATTTACTTTGT
ATACTTCAAAAGATCTGGTCATGAAATTTTTAGCTAATACATAAAGTGCCGAATTGAAAT
CCAGAATACAATAGCTATGAAGGGCCGCTAGAGTGCAGATAACCAACCCATTCTACCTAA
CTCAGGTTGAGATTGCTTTAGAACCTATCATTGGCTTTAAAATGGTCCACAAAAAAACAC
CTCATGGTCACACTTAAAATAGTTTGCATCCCACACTA

Sequence=569;DNA;Homo sapiens
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CAGGGTCTCAGGGACCAGGTTTTGAGGCAGTATTTCTGCCTCTTGAGGACAGGGCAGAGC
AGGTGGGTAAAAAGCAAAGAGACCAGGGAAGGGGGACTAAAAGTAAGGGAAACAGCATCT
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Sequence=570;DNA;Homo sapiens
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GTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTG
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Sequence=571;DNA;Homo sapiens
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TACTTTAGAGGAAATCCTGGTAACTGTTGTTTGTTTGTAAGTTATAGCTGTAATTAATTT
TCCCTGTATTCAAAGCCCCCAAACCCTGCATTCAGATACTATGCATTTAGACTTCCTTAG
GCAAAGTCAAGGCAACAAGCTGATGATTCTAAGCTATTATTCAAGGAGTATCTACCATCA
TAAAGGTGGTTTAG

Sequence=572;DNA;Homo sapiens
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GATTACAAAATAGAAGAGGAGTAAGTGAGAACTAAACGGGGAATACAGATAGCAGAGATT
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Sequence=573;DNA;Homo sapiens
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AAATGTTCTTTTCATTGNGGTGCTTCAGATTCCTGATTCTAGAACTTGTGTGTGTGGAAC
CTGTGTGCTAACTATTCTGTTGGAATTTACCAGCAAAGAATTATCTAAGAATTTTCAAAC
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Sequence=574;DNA;Homo sapiens
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TABLE 2

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CGCTGCCTTCTGACGGTAAATGTATTGTAGAATTCATGTTGTTATCAGGCTTCAGTTTCC
TCATCTCTAAAATGAGAGGATTGGATAAGTTAGTAGTTTCTAATTTTTACTTTTAATCAG
TGGCATCTCCCATTTATTTTTCATTTGAAATAAAACTTTTGAATTTTATCTTCTACCTAA
ATAACATATTTTGTTTTATGTTTCAAGATGAAGCTCACACTGAGTTGGAAAAAAGGAAAA
AGCAAAGGATCAAAGCTG

Sequence=575;DNA;Homo sapiens
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TTCTTTTACTGTTAATATCCTTATTCTCTATTTTACCAGTGGAGAATGTTTAGTATTAAT
TTCCATTTAGCTCAAGATTCAAGAAATGCANAGTGCTATTTTTATCAAATTTCTGAAAGC
CTACTGTCTTCTGCTTTGGAAGTCCCACAACAGCTCTTTAATTTCCTTAAGCCCCACTTT
CCTCATCAGCAAGTTGGTGTGGCANTGGATCATANTAGGTTGCTGGGAGGATGAAGTGA

Sequence=576;DNA;Homo sapiens
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TCCAAAAAAAAAAAAAAAAAAGT

Sequence=577;DNA;Homo sapiens
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AGTTAACCATTACATAACCTGCAGGTGGCTTCTCCCCATACCTGCCGTGGGATAATATGG
CTCACTTTTTACTTCATTTACAATATTTAATAAGTGCGATTTTAGACTTGAGAAGAGAAT
ATTTTCTGCTAAAATTATCCCCACTAGAGATAATCACCAGTGAATTAATACACTGCAGCA
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Sequence=578;DNA;Homo sapiens
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ATATTTTCTNCTNAAATTTATCCCCNCTAGAGATAATNNACCAGTGAATTNATACACTGC
ACCNNACGGAAACCAGTCA

Sequence=579;DNA;Homo sapiens
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AAGGCTTGCCTTTTTTCCGTCGCTCTG

Sequence=580;DNA;Homo sapiens
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GAAGTCCNCACAGGAGGGGGTGCTTGGGACCACACACTGATGCTCTTGNCATTCAGACTC
TGAGAAACATGCCGCGTGATGAANAAACCATCCCAATTANANGAAGCTAGCTGNNTTNCA
TTGNAGCAGCTTTACCCCAATTT

Sequence=581;DNA;Homo sapiens
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TGATTGAGAGAAAAAGAACCCTCCAGGAGCCCTCAGCGTAGTAGGGGGTTGGTGTTGGAG
GGTGGAGGAATGGAAAAGGNCCTGAAATGCANGCAGAGAAATGATGAAACAATTCCNGGG
GCTGCGGNGAGGTTANATGAATATCTTTACAGCAGCCTNGAAGACTGATCANGTTACTAT
ACCCTCTCTTCTGTCCACGTGCATTTNA

Sequence=582;DNA;Homo sapiens
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ATCCGTTTCAGAAACGTGAGTCTCTAGCTCAGGAGATTTCCACAACTGTCCTTAGTAACC
TGATCTTATTCTCATGTTTAACCTTGGCAGTGGGAAGTTCTTCCTGGTATCCTGCCTAAT
TTACTGGAGTTGGCATTAATGCCATTTCCCCCTAAGGCGTGGCTCTTGGACCAGTATCAC
CTGAGAATTTGATAGACATAGACCCAGAGTTACTGAGGGCAGGTGCTCTGTTTTGGGGAC
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TABLE 2
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AAGCATNATCTGTTTTTGAC
Sequence=583;DNA;Homo sapiens
GGTACCCAAAAGATATCACTGTGAAGGTTTGGATACACTGACTGAGGAAAAAAGAAGGTC
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ACTTCTCAGCTTTCCTCATTAGAAGTTTAAGATCTGAAGCAATCTTTAAACTCGTGAGGA
AAATTAAGTCTAATAAATANTTTTCTTCTTAGCCCAAACAATCAAATGTGAAGCTAGAAT
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CTGAAATCAGAATCCTAGTAGTTTGTAGTTTGCCTCTTCCTAGAAGTTCAAGAGACTCAA
GTCATAGGCTACAGATGTACCTN
Sequence=585;DNA;Homo sapiens
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GTCTCCCACAGCCTTCCCTATTTCTCTACCTGGTACCTGCCCGGGCGGCCGCTCGACCTG
CCCG
Sequence=586;DNA;Homo sapiens
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TAAGGTGTCAGTGAACTCAAAAATCAATCAATAGAAACTACTCAAACTAAAACTCAAAGA
GAAAAAAAAAGATGGGAGATAATTATTTTTTAAGAATTGGTCATCAAAATGTAGCAACAA
GTTTGCCTTATCCTATATCATTTGAATTTTCAAAAAATAAGCTCATTATACAATCTTTAA
AATATTTTGAATAGAACTGTTTCATGTGTTATTTGT
Sequence=587;DNA;Homo sapiens
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TABLE 2

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Sequence=663;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTAGTAGAACTCTA
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TCTTTCATAAGTATGAATAAGCAGCATGCATAAACCAATTACCTTCCCCTATTCCTCACA
ACCACCACCACCACACCCACCACCTCTTGTGGCAGTGGGGATAGCAGCCCATGTTCCTGG
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TABLE 2
99/3461

ACCT
Sequence=664;DNA;Homo sapiens
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TCGAGCTCAGAGGAAGAAGAGGATCTTCATCACGGGGAGACATCAGCCTTCTGAGTATCT
GGGACTGCAGGTTATGTGCCACCACACTCGGCTAATTAAAAAAAATTTTCTTAGAGACAG
GGTCTCTCTACGTTGCCCAGGCTGGTCTCAAACTCCTGGGCTCAAGTGATCCTCCTGCCT
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Sequence=665;DNA;Homo sapiens
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Sequence=666;DNA;Homo sapiens
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GCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGG
Sequence=667;DNA;Homo sapiens
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Sequence=668;DNA;Homo sapiens
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TABLE 2
100/3461

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Sequence=671;DNA;Homo sapiens
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Sequence=677;DNA;Homo sapiens

TABLE 2

101/3461

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ACTTTGGGAGGCCAAGGTGGGAGGATCACTTGAGCCAACGAGTTCGAGACCAGCCTGGGC
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Sequence=678;DNA;Homo sapiens

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Sequence=679;DNA;Homo sapiens

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Sequence=681;DNA;Homo sapiens

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TABLE 2
102/3461

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Sequence=683;DNA;Homo sapiens
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Sequence=684;DNA;Homo sapiens
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Sequence=685;DNA;Homo sapiens
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Sequence=686;DNA;Homo sapiens
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Sequence=689;DNA;Homo sapiens

TABLE 2
103/3461

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Sequence=690;DNA;Homo sapiens

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Sequence=691;DNA;Homo sapiens

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TABLE 2
104/3461

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Sequence=699;DNA;Homo sapiens
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CTTGCAGTGCACAGCCTGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAA
CATGTCCTTGCTCTCCAATGGCCCTGGCAGGCCAACCTTTAGTTTCAGGGCTACCACCTG
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TGTACCTTCGGCCGTT
Sequence=700;DNA;Homo sapiens
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Sequence=701;DNA;Homo sapiens
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Sequence=702;DNA;Homo sapiens
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TABLE 2

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CCTANCTGGGGGGGGA

Sequence=703;DNA;Homo sapiens

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GGGAGGTGCAGAGTGAATGGACCATACTACCTGTCATCTTGGCAACGTGTGATTGAATAA
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CTTTTTA

Sequence=704;DNA;Homo sapiens

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GAGACTTGTCCAAGGCCACACACCGGCTGGTGCTCAAGCCGGGACTTGAACCCACGCAGT
CTGACTCTAGAGCCCAAGCTCCTAACTATGACATCCTATTTGATACACTGTTTTACTGGA
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GTCTGTACCTGCCCG

Sequence=705;DNA;Homo sapiens

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AAGCTTATTTTGATTCAAGCTTGTGTCAANAGCATTCTTGTGTTCAAGGAAGGATACCAA
AAAATACAGGGAGGAAAAGGGAAAGGAAAGCCGCTTATAATAATACCAGTCAGCTTGCAA
GGAGGGACCACCCTTGTCAGGGAAAACAANAAGAAAAGGAAAATTTGGTTTGGACCATTG
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CCCA

Sequence=706;DNA;Homo sapiens

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TCTAGCACCCTAACCTCTGTCTAACCTTCGAGAGCTTTGCACTAGCNATTCCTGGGGACC
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TTATTTTAAAA

Sequence=707;DNA;Homo sapiens

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Sequence=708;DNA;Homo sapiens

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TABLE 2
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Sequence=709;DNA;Homo sapiens
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Sequence=710;DNA;Homo sapiens
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Sequence=711;DNA;Homo sapiens
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Sequence=714;DNA;Homo sapiens
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TABLE 2
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Sequence=716;DNA;Homo sapiens
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Sequence=717;DNA;Homo sapiens
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CGTTGTGTAGTATTGTCTGTTACACTGCAGGTGTCTAGAATTGCTGATAGTGTTCTCCCT
CTAAAGTAATGTCACCCAACCACTTGTAAATTGACGATAATAAGACAGGAAATCAAGAAC
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TCTTGGCTCTGTCACCCAGGCTGGAGTGCAGTGGTGCAATCCCGGCTCACTGGAACCTCC
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TGCCCACCGTGCCTGGCTATT
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GAAA
Sequence=721;DNA;Homo sapiens
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GTCTGTGGGAGGATTTAAAAATAATAAAACCAACTAAAGGCAGTCTGCTTTTTATGGTCA
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TTTNGANGGGGGGG
Sequence=722;DNA;Homo sapiens
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GACCGCTCAAAGTCANGAAGGTGGCGGAAACNCCGACAGGGACCTATNAAAGGATACCAA
GGCCGTTTTCCCCCTTGGGAAGGCTCCCCTNNTTGCCGCTCTCCTGTTCCNGACCCTTGC
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Sequence=723;DNA;Homo sapiens
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TABLE 2
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GTTTAAGGGAAAATCTCTTTTAAGCCACTGATTGTTCTGACTTGCTGAGTTTACTCAGCA
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AAGGGGGAACATGTTTTGCATTT

Sequence=724;DNA;Homo sapiens
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AACCGAAGAGCATCAGAGGGGACGACTGGGTTACTTAACTGTTGGGGAGCAATCTGAGGA
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GTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTT
CTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGAC
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Sequence=729;DNA;Homo sapiens
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TABLE 2

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Sequence=731;DNA;Homo sapiens

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CAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTGACTGCA
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Sequence=732;DNA;Homo sapiens

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CTCTGTCGTCAGGCTGGAGTGCAGTGGCGCGATCTCAGCTCACTGCAACTTCTGCCCCCG
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TGACC

Sequence=733;DNA;Homo sapiens

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Sequence=734;DNA;Homo sapiens

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Sequence=735;DNA;Homo sapiens

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Sequence=736;DNA;Homo sapiens

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TABLE 2
110/3461

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TGNANAATNNCTNTTTTTTCAACTTTCTTTACCAAAA
Sequence=738;DNA;Homo sapiens
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TABLE 2
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TABLE 2
112/3461

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TABLE 2
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TABLE 2
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TABLE 2
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GCCTTTTTCCCCTTTTTTAAAAAA
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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GGACAACGTCCANNGGGACACCCTTTTATA
Sequence=822;DNA;Homo sapiens
CCGCGGTGGCGGCTGTGGACTGAAGGGTGACTGGTTCCACTGTGGTCTCCATGGGAACAA
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CTGGGTTCCTTGGAGCTCATGATTTTGAGAGTGGTAGACATTTCTGGGCTTCCTGGGGAT
GTGCCTGCTGGACTGCTCCCCGTCTCCTCTGCTGGGGCAGGCCACGTGGAATTTCCTTGT
GCTGCCTGGCTTGACATCTTTA
Sequence=823;DNA;Homo sapiens
CCGCGGTGGCGGCCGAGGTACCTGAAGAATCTCTCTTCAGCTCTCTTCTCCTGGAAACTT
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CTCCATTTATCTGGCCCTCCCTGATGGCACTCCAGAATTCCAATCCCACACGATTAACAA
CATAGTTTCCCTTTTCTGCTTGAAGGTCCATTCTCCTCTCAATTTCAAATCACCTGAGAT
ACAAAGCTGCATTTCCCCACAAGAACCAGTTCCCTCTCCTTTCCTTCAGTGCTACTGTCC
TTCTCTCAGACCACCAAGCTTAAAAACTCCAGAGGCTCAAACAGCAAAGATGGCAGCCCG
CTCCTCCCTCTGGGGAGTTCTGGCCCAGGGAGTTTTCAAATTTCTGTAGGCGGAAGAATA
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CAAGCTTTTTN

TABLE 2
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Sequence=824;DNA;Homo sapiens
CCGGGCAGGTACATGAAAGTAAGATCACAACCACAGGAACCACACAAAATTCAAGGCACC
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CAATGGGAATACCGGAATATGAAAACACTATGAGGCCGGGCACAGTGGCTCACGCCTGTA
ATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCATGAGGTCAGGAGTTCGAGACTAGC
CTGGCCAACATAGTGAAACCCCATCTTTAATAAAAATACAAAAAATTAGCCGGGCGTGGT
GGGGGGTGCCTGTAATCCCAGCTACTCCGGCGGCTGAGGCAGGAGAATTGCTTGTACCTC
GGC
Sequence=825;DNA;Homo sapiens
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TGTTGGCCAGGCTGGTCTTGAATCTCGGGTGATCTGCCCGCCTCGGCCTCCCAGGGTGCT
GGGATTGCAGGCGTGAGCCACCACGCCCGGCCTCGATATATTCTTACAGTGGAATACTGC
TCAGAAATACTGATGAATCTTAAAAAACATGATGTTTAGCAAAAGAACCTTGGTATAAGG
TTCTTGGTATAAGGGATACATACTCTATGATTCCATTATATGAAATTCTAGAACAGGAAA
AACTATAGTGAAAAACAATCAGATTAGTGGTATCTGGGGTAGAAAGTAGGAGGAGATTGA
TT
Sequence=826;DNA;Homo sapiens
CNANAGGGCTTTTTGGGGGCAAAACCGCGGNGGCGGCCGCNCNAGAACNAGNGGANCCCT
NTTGGGGGGGGGAAAAAAACCCCAAGCCCACCGANACCGNCGACCNCGAGGGGGGTNCCGG
NACCCAGNGNNNGNCCCCTAAANAGAGGGNNAANNGCGCGCNNGGCGNAANCANGGNCAN
AGCNNGNNNCCNGNGNGAAANNGNANCCGCNCACAATTTNTCTTTTNTAGNCGAGCCGGG
AGCAGAAAGCCCNAAGAAAAAAGN
Sequence=827;DNA;Homo sapiens
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GCGACCTCTTGATCCATTCTGTGAAAGCCCCAAGCCTGTCATGCAATAAAGACGTCCAGT
TTCACCGCAGCAGGGAGGCCGCATGAAATATTCCACTTGAACAAAACCACTTAGCAGTTT
ACATCAATGCTTACCCTGTCGCATTGAAAGTGATGTGAACCCACACCCAAGAGCCCCCAA
ACCAGCACGTTGATACCAAGTTTCCCCAGCTGCATCCAAATCAATTCCTTCTT
Sequence=828;DNA;Homo sapiens
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NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTTTTTTTGGGGTTTTNAGNGAGGGGAANCG
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Sequence=829;DNA;Homo sapiens
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GAAGTGCTGGTGGTCTCACTCCCCTGGTGACCCTTAGCCGTGGGATGGGGTGGTTACACT
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CATCCTGGGGTTGGCTAAGTCAACTCCACCCCTTCCCAAAAAAAAAAAAAAAAAGTACCT
Sequence=830;DNA;Homo sapiens
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ACATTGCACTTGGTGGCTCAGGACCTTAGCTTCGTCTTAAAGGTCCCTGTTATGCTTTTT
CTTTTTGCCCCAGTGTGGAGTGGTCTTCGTGTTTGTGAGTGCAGGGGTCAGGGGTTGTGT
CTTTTCTTCTTGTNCCCTTCCAAGAGGTGACATGTATCCTTGATACTGGAAGGGCCCTT
Sequence=831;DNA;Homo sapiens
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ATGTAGGTATGTGTCAAGTATACAGAGTGTCAGGCATACGGTGTTCAGTCATAAGCAGTT
CTGGCCTTTGGCCCTGCACTGTTTGTTGGCTTTTTAGGTAGGAACCTTCTTAGAGTAAGA
CTGTCATGCTAAAATTGTAGCAATCAAATGTGCCCCCCATACAACTCATTTGAGGTTGAG
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TABLE 2

123/3461

Sequence=832;DNA;Homo sapiens
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GGCAAGNGCGCNCAGGGCGGAAANAGGGCNACAGCCGGGGCCGGAGCNAAACAGGCACCC
GCCCACANTTNNTTACAACANACNANCCGGGAGCATAAAGCCGCAAANCCAGNGGAGCCA
AAGGAGGGAGCGAACCCACAG
Sequence=833;DNA;Homo sapiens
GGCAGGTACAACCTCCATCCCCTGGGCTCAAGCGATCCTCCCATTTCAGCTCCCCCTGTA
GCTGGGACTACAGACACACACCACCGTGGCTGGCTAATTTTTGTATTTTTTGTAGAGGCA
GGGTTTTGCCATGTTGCCCAGGCTGGTCTTGAACTCCTGAGCTCAAGTGATCTGCCTGCC
TCGGCCTCCCAAAGTGCTGGCATTACAGGCATGAGCCACCATGCCTGGCTGGGACATTAT
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TACAGATGTAAGACTTGACTTGATCAAATGCCCAGCTCTGTAATTTCACCTAAATTG
Sequence=834;DNA;Homo sapiens
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TGTCTGCTGAGATATAGCAGGGAACAATTTAACCCTTTGTTTTGCACCCACAAGATGAGC
ATTACCAAATTCCCAACAGAGACATGCTGGGGCTGTGCTGTGCCTCCACCCTGCCCCCTC
CACAGCCAGCTCCGCGTGTCTCAGTCTGTAACTGATAGCATTCCACTTCCTGCCTGTACC
TCCCCGGC
Sequence=835;DNA;Homo sapiens
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CGNCCNACCNCAGNGACNNGANGNATNTACNGGAAACAGGGCGCAGCCCNAGGAAGGACA
GNNGAAGNCCNNACNGNGCAAGNCNAAANNNNAAGGAAAANNAGNCCCGCGANGAGNNNC
CNCANGCTTTNNNTNTGCGGGGACCAGNCAGGGGNCGNCCCCGACANAANCAGGGCNCGC
CGNCGGNGGNAGAGNCACNNNGCAGGGGNNGGNGAAGCNGCNCCCANCCANGGACCNNGG
CCGCNCNAGAACNAGNGGANCCCCCGGGCNGCAGGAANNCGANANCAAGCNGANCGANAC
CGNCGACCNNGAGGGGGGGC
Sequence=836;DNA;Homo sapiens
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ATTACAGGCGTGAGCCACCGCACCCGGCCCAGTCTTCATATTTATAAATAAAGTCTTGTG
GGAACACAGTCACATTTATTCATTTACATTTTGTAAATAGCTGCCTTCAAGAGGTAGAGT
TGAAAGTCTTTAAGACAAAGATCAGGTGGCTTGCAAAACCTAAAACGTCTGGTCTTTTAC
CTAAAAAGTTTGCCAACCCCAAAACAAGAATATATTCGATTGTAATCTTTACAAAGGTGT
TGGCTATATTTCAGTGTGT
Sequence=837;DNA;Homo sapiens
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TCAATACGTATTATAGATGACTATGAGTGCAAACCTTAGGATGNGATTNTCTGAATAATN
GNTCTTTGTAGGATTTGGTTACATTATTTAAAATGAAAAAGATCTAGTTTTAGTGTGAGC
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TTTTCAATATCACTTCTGTTTTTAGTGATATTATATCAAGAAACAACGTATTCAAGAACC
ATGGCTGACAGTGCCAGATATACTTAGGGATAAACATCAAAATGCAATTATAGTTGCTAT
AACGTTAGATACTCGGAATCAAAATTTATTTGCANGCTGACTTGATAAACTAAATGAA
Sequence=838;DNA;Homo sapiens
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ATATCCCTGCCTGGGATGATGATGGCTCTAATTGAAGCTCTGGCATCATCTGGGGCTTTA
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ACCAAGGCAGCATTTGCTAGAATATTTGTGATTATGTGTTCAACCTACAACCT
Sequence=839;DNA;Homo sapiens
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ACCTTTTTATTGTTGTTATAATTATTATGGGGTATTTCTAATTAATATGATGTTGAAACC
TGTTTGGCACCTTCTGGAAGCTACCAAAAAAATGACACTCCATTGAAGTGCTTAAAAGCT
GTTCTCATAAGAATTCTACTGGCCTATTGTAAAAAAAGAAAAAAAAAAAAGAAAAAGAAG
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TABLE 2
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GTACCT
Sequence=840;DNA;Homo sapiens
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TGAAACCTTTTAAGGATGCCAAGAATGCATTATTCCACAAAAAAACAGCAGACCAACATA
TAGAGTGTTTAAAATAGCATTTCTGGGCAAATTCAAACTCTTGTGGTTCTAGGACTCACA
TCTGTTTCAGTTTTTCCTCAGTTGTATATTGACCAGTGTTCTTTATTGCAAAAACATATA
CCCGATTTAGCAGTGTCAGCGTATTTTTTCTTCTCATCCTGGAGCGTATTCAAGATCTTC
CCAATACAAGAAAATTAATAAAAAATTTATATATAGGCAGCAGCAAAAGAGCCATGTTCA
AAATAAGTCATTATGGGCTCAAATAGAAAGAAGACTTTTAAGTT
Sequence=841;DNA;Homo sapiens
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GTGTGTAGGGGGAAAGAGGGAAAGCACTTGCAGTGTGACTTTATGTGGTCTTTCCCCAAG
TATTGCTACGTTTTGACCTTTGGCCCAACTGAACAGGTGAAATGCCCTTCACATAAGTTT
CAATCCCCAAGAAACTAGCTGGAATGCAGGGGACTGTAGACACACTCCTGGACCAAATGG
CATCGACTCTCAGAATCCAAAATGGGCCCTGCCCTCATTCTGAGCTTACGGCCCCAAGCA
TATTCTAAACAAAGCTTTTTTAA
Sequence=842;DNA;Homo sapiens
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TTTCAAAGNGCACACACACCGCGTNCACATACACTGCATTCGTTGCTCCAGTATAAATTA
CATGCATGAGCACCTTTCTGGCTTTTAAGCCAATATAATGGGCTGCAAAATGAAGACACC
ANAGTGTATGCATACAAATCTCACTGTATTAAAGATGCAGGTTTTCTAATTGTACCT
Sequence=843;DNA;Homo sapiens
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AGGAACTGAGAACTTAATCTTCCAAAATGTCAAAAAGACCATCTTATGCCCCACCTNCCA
CCCCAGCTCCTGCANCACAAATGCCCAGCACACCANGGTTTGTGGGATACAATCCATACA
GTCATNTNGCCTACAACAACTACAGGCTGGGAGGGAACCCGGGCACCAACAGCCGGGTCA
CGGCATCCTCTGGTATCACGATTCCAAAACCCCCAAAGCCACCAGATAAGCCGCTGATGC
CCTACATGAGGTACCT
Sequence=844;DNA;Homo sapiens
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TCATTTTNAAAAACAGCAGCTTCTTGAAGCCCCANAACGCATTCCTGTGCTACGG
Sequence=845;DNA;Homo sapiens
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATTCCGGGTCATCCGCA
GAAATTCCTCATAGATGGTAACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTACACA
GGGAGTCCACCCCGGTGTGGTGCCTGCTTGNGGACAGACCTGAATGTTGAAACTTGACAG
TCAGAAAAATAACTCTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGCGCATCCTCAATA
TTCCTTTTGTTCCTCTGGNAATTGGTGGTGCCTGGCTGGGCTTTGTCCTGGGAATATGGT
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GATGAACTGATGACTCC
Sequence=846;DNA;Homo sapiens
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GAAAACTTCAGAAAGGTATTGGTGGGGGATGTTGCGGGGGGACAGGGGACAGCGAGGATG
TGGGATCCCGAGATCGTCCAAATCCCTATGTGTAGACATATGTGTATAAAGGCCTTTAAG
AGACTCAGGCTGATGGGGTATCTGTAATAAATCAAACATAATATAACAGCACGTCAAGTG
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Sequence=847;DNA;Homo sapiens

TABLE 2

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CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTT
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GCACAATCTTGGCTCACTGTAACCTACACCTCCCGGGTTAAAGAGATTCTTCTGCCTCAN
CCTNCTGAGAAGCTGGGACTACCAGGGGATCCCGCCCCACCCCGGGTAGGTTTTTTGTAT
TTTTTTAGNNAGAAGACAGGGTTTTCCNCCCATATTGGGCCCAGGGCTTAGGTCTCGGAA
CCTCCTGGACCCTTGNGGATCCTGCCCACCCTTGGGCCTNCCAAAAATGCTGGGGATTAT
AAGGNGGGGAGCCACTGTGCCCGGGCCAACAATAAATTTTTTTAAGGGTTAGTCAAACCT
AACAACAAAANTTTAAAAGGTCAATCAGTAGTTCTAACTTTTTTTTTTT

Sequence=848;DNA;Homo sapiens

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAGACTTTGTAA
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CCGGCCGGTGCCAACCTGTGAACTTCCCACCATATCCCAGAATCTGCTATTCCCCAAACC
ACTTCCCAGTTTCCTTTCAGTAATCTTTCTGAAGGAGCCAGGACAATAGGGCCTGTTGTT
TAGTGAATTTCTTTATTATTTTCAGCCTTTAAAATGTAATTTCCATCTCTTGCAATGAAT
TTGTTTCCCTTTTTTTTTGCTTCATTTTGTTTAAATTTTCAGGTATTTAGCTCCCCTTTCA
TATTATTTTTAAATTTTTTAATTACCTGTTGTAGGGGTGTTCCTCCAGAAGCAAAGAGCA
AAATTTTACTGTTGTGATGTACCT

Sequence=849;DNA;Homo sapiens

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TTTGTCCCTCTCATGGGAATTGGGCTGTATGTATATTGTTCTTCCTCCTTAGAATTTAGA
GATACAAGAGTTCTACTTAGAACTTTTCATGGACACAATTTCCACAACCTTTCAGATGCT
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AGAGATAACTCGGGA

Sequence=850;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGTCTTA
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TGTGTGTGCATATAAAAATATGACACTCCTTAGTAAAATATTCCTCTAGACCTGGGGTTC
ACACATCCCTCCTCCTGATCCGTGCTGGTGCCTACTCAGGCACTACTTTGCAGATTTCTC
TTCTATGAGCTAAGGTTTTTCTGAGCTAAGGTCAAGCGGTGACTTAGCAAGTTGAACGTG
TAATGAACCAAACCTGTTTTTCCATGGAACCAATAATAATTAATCTAGAGTGAGCCATTT
GGCCTCCAGAAACAAAGAGATTTCCATCACAGAGTGTTGGTGAGGGGTCATGAGTAAGGC
GGGGGGGCAGTGAGAGCAAGCTGTTTTATTGTGAGAGTAGCAGGCAGGCTGAATGAGAAG
GGGTAGCTGTT

Sequence=851;DNA;Homo sapiens

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AGAAGTTACACAGGGAGTCCACCCCGGTGTGGGTGCCTGTTGGGGACAGACCTGAATGTT
GAAACTTGACAGTCAGAAAAATAACTCTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGC
GCATCCTCAATATTCCTTTTGTTCCTCTGGTAATTGGTGGTGCCTGGCTGGGCTTTGTCC
TGGGAATATGGTAGGTTGGTGATGGTGAAATTCAGGTAGGAAGTGCCTGGGTGCCCCGCG
TACCTCGGCCGCTCTAGAACTAGTG

Sequence=852;DNA;Homo sapiens

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTTTTGGGGAAATAACAGGGGAGAGCAAATTTCTAAAAACTTGGGGTTTTATAGTAATTT
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ATAGGATACACTATAATATTATTGTAGTCCAGAAAATCTGTATACTATAATTCCTAGGGA
AAAAGAGAAAATTATTAGTGTCAAAATACCTATAATTCCCACAGTTACCATATACATTTT
TAAAAATTGTTTAAATACACAAACAATGATGATGCTGTCCTACTAGAAATGACAGGAGCN
AGAGCTTTTACCTTTCTTTCAAAATGCCTTTAACCCCTTTCATTATTNCCAAGGTTCAAA
ATTTAAANATTCTTTTTTTT

Sequence=853;DNA;Homo sapiens

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TABLE 2

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ACGGGGTTTCGCCATGTTGGCCAGCTGGTCTCCAACTCCTAACCTCAGGTGATCCACCCG
CCTCGGCCTCCCAAAATGCATCTCTGGTCTTTAAATGCCCTTTGCTGTATATTCTATAAC
ATCAAGTCTCAGATCTGGTTTGACCTCAGTTGGCCTCTTAATAGTTTTCCCCTATGAACA
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CATCGTCCCATG

Sequence=854;DNA;Homo sapiens
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AGTCAAATGCTAAGGCTCTTCAAGCTACACTTGGTTCCTCCACCCTCTAAAAGGTGAGAA
CTCAAGAGAGCTGGGTTCTTTGGGACCTTATCATATTTTTCCCCTCCCTAGGCCTTGATT
TCCCATTTGGAAAATAAATCAGTGAGGGCTTTCTAGTTAAAAATGCCAGTTGAAGCCAGG
CTTGGTGGCATATACATGTAGTTCCAGTTACTCAGGAGGCTGAAGTGGGGAGGATCGCTT
GAGCCCAGGAGTCCAGTCCAGGCAACATTGCAAGATCTCATCTCTAAAAACTAAAAAATG
GACCAG

Sequence=855;DNA;Homo sapiens
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AAGTCAAAAATTATTTCCTATATTGCCTCAAGCCCTGCAGATAGCTTTGCTATGTTTGTG
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ACAATCACAACAGAAACATTCCCTTATTCACTGAACATTTCAAACCCTGAAAATGTGTAA
TGAGAAATGACAAATTTTTAAAAGTTTAATTACTAAAGAAGACAAAAAATGTCTATTATG
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TCCTGTCTACCCCTGTTATTACAGATTAGAACCCGAAAGTCCAG

Sequence=856;DNA;Homo sapiens
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CAGGGGGAAACATCAGTAAACTACCATTAATGTCAATGCCCAGTTTTGACTTTTGTTAGC
CTGACACTCCCAAACAGTTGTAGAATCCGATAGATGACTGATGGCAAAAGATTGTGAACA
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GTGGTTATGGGAACTACCAATGGGTTCCTACAAT

Sequence=857;DNA;Homo sapiens
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AAATGTATTAAACTTATCAGTAACATAAAAACTTATTTTGTTTCACCTAACGAATACTGC
GTTTGTAAAAATAAATTTAATATAGAATATATTTTTAAATTAAATATTTGAATATAAAAT
AGCTCTAAGAAAGAAGCAAATTATCACTGAACATATTTCTTATTATTTCTGGCTTTGAAT
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ATG

Sequence=858;DNA;Homo sapiens
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TTT

Sequence=859;DNA;Homo sapiens
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TABLE 2

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ATGCCCTCGTTGCAGGCCGGGGACACAGCTACCGCATTCAGAGACCAGGAAACAGAGCAA
AAGCTGTTCTCANAGTGCGGCTGAGCGAGGAGCTACAGGGGAATGGNGGGGGCCAAGCTG
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Sequence=860;DNA;Homo sapiens

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CTGTAAGCCCTTCTNTTGGCCAAGGAAGAAAGGAAGAAAGAAAAAAGAAACCCAGGGGCC
TGTATCCCCTGATTAAACACAGCACAGCACTCCAGGCAGACATGCCCGGNGGCGGCTCCT
TTGCACCATTGACCTCAGGCCAGACACCTCAGCGCCAACAATGGGACCTCGGCCTTCCGG
CTAGGTTTGCCCCAGGCTGGGCAGGAAACCAGCTCGGCCGCTNTAGAACTAGGTG

Sequence=861;DNA;Homo sapiens

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CTATGTTGGGGTATATCTTTGCATCCAAAGCCAGAGGGGAACCACAATGGCCTAGTAAAA
CCGGTGGGTCCTCAAATGCCCACTTAAGCCTCTGGCCTNTTGGAANTTTGACCCATAGTG
GGCCGTTCAGCTTGATTAGAGCCGGGGAAAGAAAGAAAATATTGNCATTTTTTTTNTTGA
AAAAAAATTT

Sequence=862;DNA;Homo sapiens

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Sequence=863;DNA;Homo sapiens

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Sequence=864;DNA;Homo sapiens

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Sequence=865;DNA;Homo sapiens

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Sequence=866;DNA;Homo sapiens

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TABLE 2

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Sequence=867;DNA;Homo sapiens

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Sequence=868;DNA;Homo sapiens

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TABLE 2

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Sequence=878;DNA;Homo sapiens
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TABLE 2
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TABLE 2
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Sequence=895;DNA;Homo sapiens
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TABLE 2

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Sequence=896;DNA;Homo sapiens

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Sequence=897;DNA;Homo sapiens

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Sequence=900;DNA;Homo sapiens

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Sequence=901;DNA;Homo sapiens

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TABLE 2

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NTGTGCCGCGCCTTCAACCTAAGACGTGGACAGTCCTGCCCGAGTACTCTGGCCCCGAGG
GGAAGTTA

Sequence=902;DNA;Homo sapiens

CGACGGCCANGGCGCCTCCGAGTTCCCCGCCAGGACTCGGAGGGCCAGGAGGGCGCGACC
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GAGCGAGAGAACCAGGAGGCGCTGCGCAGAAGGAGGCCCGGGGGCTCCGAGGCGTTGAGG
GGCTCGATCTGCGTTCTGGGGTTGGCAGCCGAGAGGCCGCGGTCCCTGAGTGCCAGAGGT
GGTGGTGTTGCTTATCTTCTGGAACCCCATGCAGCCAGATCCCAGGCCTAGCGGGGCTGG
GGCCTGCTGCCGATTCCTGCCCCTGCAGTCACAGTGCCCTGAGGGGGCAGGGGACGCGGT
GATGTACGCCTCCACTGAGTGCAAGGCGGAGGTGACGCCCTCCCAGCATGGCAACCGCAC
CTTCAGCTACACCCTGNAGGGATCATACCAAGCAGGCCTTTGG

Sequence=903;DNA;Homo sapiens

CGTCCGCTTTNAGACCGGAAGACATTTAAAAGCCAGTTTACGTACANGAAGCATGGTTTT
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ATGTTGCTCTGCTTTGCTATGAAAAATATCGTTTTATGATAAAACTTGTTGAATTTTGAT
ATGTATTCGGTTATACTCTTAGGGAAAATAATAGAAATTAGAGTGAGAGAAAGTGCTATG
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AAGTTGAATGACTACTTAAATTTGTTGATGTGAATTTAAGTTTTAAAGATTATTATTAAT
TAACTCTTCTCTTTGTCTTTGCATTTACCTTCCCAGATGTTCCAGCCTATCATTTTACTT
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CTTTTTACACTGGTTTTTGGTAC

Sequence=904;DNA;Homo sapiens

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GCTGTGATTGGAAGCACCTACATGCTGACCCAGGACGAAGTCCTGTGGGAGAAAGAGCTG
CCTCCCGGGGTGGAGGAGCTGCTGAACAAGGGGCAGGACCCTCTGGCAGACAGGGGTGAG
AAGGACACAGCTAAGAGCCTCCAGCCCTTGGCGCCCCGGAACAAGACCCGTGTGGTCAAG
CTACCCGCGTGCCCCAC

Sequence=905;DNA;Homo sapiens

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GGAGGGTTAAAAGGAATAATTTCAACAGGGTGAAGGCCTGGCACGGTGGCTCACAACTGT
AATCCAAGGACTTTGGGAGGCTGAGGTGGGTGGATCACCTGAGGTCAGGAATTTGAGACC
AGCCTGGCCAACTTGGTGAAACCCTGTCTCTACTAAAAACAAAAATTAGCCAGGTGAGGT
GGCACACACCTATAGCCCCAGCTACTGGGGGAGGCTGAGGCAGGAGAATTGCTTGAACCT
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Sequence=906;DNA;Homo sapiens

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ATTGTGTCTGTTCTGACCAACGTGCTCGTGGGTGGAAACACCCCAAGGAAGAACCCCATG
CATCCCAGCTCAAGGTGGTCAGAGCTAGACCTTCTTATTCTGTTGGGGACGGCGGGCCAC
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Sequence=907;DNA;Homo sapiens

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TABLE 2
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GTCTCAAATGCAATGTCAAAGAGCTTGCAGTTTATTTTCCAGGCAATGAGTAGGCAGCCA
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Sequence=908;DNA;Homo sapiens
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GNTACCCAGCTTCCNTCTTTTGTACC

Sequence=909;DNA;Homo sapiens
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CGGGGCCGGGGGTCGCGCCGCTAGCCGCCAGCAGCGCAGTCCGGGCCGCCACCCTGCACC
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CTCAGGGTGGTGAGCTGCGGAGACCCGTGATAATTCGTTAACTAATTCAACAAACGGGAC
CCTTCTGTGTGCCAGAAACCGCAAGCAGTTGCTAACCCAGTGGGACAANGCGGATTGGAA
GAGCGGGAAGGTCCTGGCCCAGAGCAAGTGTGACACTTCCCTCTTTGACCATGAAACTCT
NGGGTGTCTGCATTGCTGATGGC

Sequence=910;DNA;Homo sapiens
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GAGAATGTTGTACTTCGATCCGAGGCCAGCCAGCTGAAGACAGAGACCATCACCTATGAG
GAGAAGGAGCAGCAGCTGGTCAATGACTGCGTGAAGGAGCTGAGGGATGCCAATGTCCAG
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GGAGATCACACA

Sequence=911;DNA;Homo sapiens
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CCAACTCCCGTTCCCTAAACTGTCTCTGAGCCATAGACTAGTAATGGACTCTTCAAGCTC
TACCATTAGGTATCTTTTAAAGAAAGCTGGTTATTACTATTTATTCATTTTTTTCTCTTC
TGTGCAGTGCAAAAGATATGAAACATCGGCTAGGTTTCCTGCTGCAAAAATCTGATTCCT
GTGAACACAATTCTTCCCACAACAAGAAGGACAAAGTGGTTATTTGCCAGAGAGTGAGCC
AAGAGGAAGTCAAGAAATGGGCTGAATCACTGGAAAACCTGATTAGTCATGGAATGTGGG
CTGGCAGCTTTCAAAGCTTTCTTGAAGTCTGAATATAGTGAGGAGGAATATTGACTTCTG
GATCAAGCTGTGNAAGAGTACAAGAAAATC

Sequence=912;DNA;Homo sapiens
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CCCCGCGACAGGGGCAGCGGCGGCGGCTCGTGAGCCCCGGGATGGAGGAGAAATACGGCG
GGGACGTGCTGGCCGGCCCCGGCGGCGGCGGCGGCCTTGGGCCGGTGGACGTACCCAGCG
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AAACTTGGGACTGCATTTTTTATGGTTTTGTTTCAAAAGCCATTTTCTTCTGGGAAAACT
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AAA

Sequence=913;DNA;Homo sapiens
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TABLE 2
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Sequence=914;DNA;Homo sapiens
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CGCCAGCCCTTGGCACNCCCTNGGAGCAGAAAGGGCTCCGGGAGGAAACTCCTTGGGAGC
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Sequence=915;DNA;Homo sapiens
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TAAGATGGCCGTGTTGACTGCTTCTTTGGGAAATGCCCTGAATAGGAGCATGTAGGGGAT
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CCGAGCCCAAGCCCGAGCCGGAGCCCGAGCGAGACCCCGAGCCCGAGCCCGAGCGCGACC
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GGGGATGCGCCGCCGCCTCGACCATGGGCGCCGCCGCCTCCAGGAGGAGGGCGCTGAGGA
GCGAGGCCATGTCCTCGGTGGCGGCCAAAGTGCGAGCAGCCCGAGCGTTTGGAGAGNACC
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AAGCCCGCAGGC
Sequence=917;DNA;Homo sapiens
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GAAAGGCCAACCTGATCCTGAGGGGACCCAGACATATCCTTTGCACTGTCCCTAGAGGGG
CGATGAGCTTTGCAGCATTAAAAAATGGTGAAGGGGGGAAATATTTTGAACCAAAGACCA
AATGTTAGGCCGCCGTTATATTTGCAGAAGCTTTGAGAACCATGCGTATAGCCTCCTGCA
TTCTCCCCTCTCCTAGGAGCTCTTTTGTCTCTGTCCTTACGAGGCGTCATACAGAGGCAG
TGGGGTGGGCACAGATGAGCAGAGTGGATGGTTCGGTGGGTCCCCACGAGGGCGAGTGGT
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AAGTCCCCACACGCTGGCTCTCCACACCCCTCCTGTTCCAGAAAGCATGTCCCG
Sequence=918;DNA;Homo sapiens
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CCTGCCTGGCCCCGGGTCCCGCGCCCCGAGACCGCCGTCGCTCGGACGCTCCTGCTCGGC
TGGGTCTTCGCCCAGGTGGCCGGCGCTTCAGGCACTACAAATACTGTGGCAGCATATAAT
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CAC
Sequence=919;DNA;Homo sapiens
ACCCCGCGTCCGCTTTTGCATCTGGATCATTTTTCTCTTGCCCCACCATGTAAGAAGTGC
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CCCCACCCCAGAGGGCTACGTCCTGGCAGAGCTGGGTTTGGTTAGTTCTGAGGGCTGAGC
TGGCCCAGCAGCTCCAGACCTCCAGACCTTGCACTCACCTGTGAACTTGACTCTGCAAAC

TABLE 2
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TCCTCCAAGATGCGCCCACCACACTCCCAGTGAACAACACCTACAGGAGCTTGGAGTTCT
ATTCTCAGATACATCAGCTTCCACATTCCTGTGTGTCCCAGCTGGAGAAGCAAGAAGTCC
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CCATGCTGGATTCATGAAGCTGAGGCCCAGAGGAGGAAGCTTTCTTAATCAACTTCTTAA
CATG

Sequence=920;DNA;Homo sapiens

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GCGGCGGCGGCGGAACGCCAGGCAGTGTATGTTTTAACTGGAAAAAGTCTTCCATGAAAA
CCGTCACTTTTAAAAAAATAAGGTAATGCCCATTCTGTTTTTTCCTAAAAAAGACCTGAA
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AAGTTTTTCATTAAATGCNCTCCTGGCTTATTGGGCAGGACCATTCCCTTTGAACAATCC
TGGGGGCCGGGCTGGGATTTCAACAAGAATTAGGCAATTCTTGGAATGGGCCTTCCAATA
ACCCTGNTGGGGAATTTTTCCCNTTTTNGCCCCCAACCTTGGGGGAATTTNATTATTTNC
AAGNTTTGGGGAAGGGTTACCCTTCNGGGGGAAANGCTTAACCCAATTTTTC

Sequence=921;DNA;Homo sapiens

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GGCGAGACATGAGGAGACCCCGCGACAGGGGCAGCGGCGGCGGCTCGTGAGCCCCGGGAT
GGAGGAGAAATACGGCGGGGACGTGCTGGCCGGCCCCGGCGGCGGCGGCGGCCTTGGGCC
GGTGGACGTACCCAGCGCTCGATTAACAAAATATATTGTGTTACTATGTTTCACTAAATT
TTTGAAGGCTGTGGGACTTTTCGAATCATATGATCTCCTAAAAGCTGTTCACATTGTTCA
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Sequence=922;DNA;Homo sapiens

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TGCTTTTCCATTGATCATCTGGAGCATAAGAACAGTAATTATTTTCTTCTTTTCCAAGAG
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Sequence=923;DNA;Homo sapiens

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ACTTCATCCTTTATGTTTTAAACTTACACACACCATTCTTACACGTCACTAAAGGAAAAT
ACCAGTATATATTGGCTAAAATTTTTTTTTTGTTGTTCAAAACTGAAACTCAAATGCCTA
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Sequence=924;DNA;Homo sapiens

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GGTGGGAAACAAAAGAGCAAGTTACAGCCCGGGATCCCAAGTTATGCCTTCCATTACAAT
TGCAATCCACACCAAATCAATCTTTGAAAACATTCCTCCATTCGGTTCATACATACAGTA
GAAACCACTGTGGCTGCCCTTAATCCAGTGTGCTTATAGGAAATCAGTTAGCAGCTGACT
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Sequence=925;DNA;Homo sapiens

TABLE 2

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CGTCCGGACCCTTATTAAGAATATCCCAGGAAGATGGTGATGAACAGCCTCAGTTTACTT
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AACCATTGGCACTGGTGTGAACAATTAACCAGCAAATGTCCTTTTCTAATACCATTTGAA
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GACCCTGGAGAGTTTCGAGTTGGTCGTCTCAAGCATGAAAGAGTAAAAGTTCCACGTGGC
GAGTCACTGATGGAATGGGCTGAGAATGTCATGCAAATACATGCAGATCGGAAATCAGTT
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GCTCTGGTG

Sequence=926;DNA;Homo sapiens

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CGCAGGGGCCAAGGCCGGNAAGAGAGCAGGGAGCCCGCGCCCGCCTCCCCCGCCCCCGCC
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GGAGGAGTGAAGACCATTGAAGCC

Sequence=927;DNA;Homo sapiens

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TACAATATAACTCAATTTTCTGTGAAAAACTATTAATCATCCTATTTTTTCCTTGTCTTT
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TAAAGGAGCAATCCCAA

Sequence=928;DNA;Homo sapiens

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GCGTGCCTGTGGTTAGGAATGCAGCACTGTTTTGGTGGAACCTGCACAGGAGTGGTGAAG
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Sequence=929;DNA;Homo sapiens

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ACCTGCGGCTCCTCTAAGCTACGACCGTCGTCTCCGCGGCAGCAGCGCGGGCCCCAGCAG
CCTCGGCAGCCACAGCCGCTGCAGCCGGGGCAGCCTCCGCTGCTGTCGCCTCCTCTGATG
CGCTTGCCCTCTCCCGGCCCCGGGACTCCGGGAGAATGTGGGTCCTAGGCATCGCGGCAA
CTTTTTGCGGATTGTTCTTGCTTCCAGGCTTTGCGCTGCAAATCCAGTGCTACCAGTGTG
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ACGTTCAAGAC

Sequence=930;DNA;Homo sapiens

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GCGAAGCTCCTCCCAGCCGGTCTCTCTGTGCTCGGTTGTCTTGGGGTGGGGCCCATCCGC
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Sequence=931;DNA;Homo sapiens

TABLE 2
138/3461

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CATCCAAAAGCGGAACCTTCGCCTCAGAAAAAGGGTGCGGGACCCCTCCTCACCGTGCGG
TCACGCGTGGACCCTGCCAGCAGCCAGGCCATGGAGCTCTCTGATGTCACCCTCATTGAG
GGTGTGGGTAATGAGGTGATGGTGGTGGCAGGTGTNGGTTGGTNGCTGATTCTAGCCTTG
GTCCTAGCTTGGCTCTCTACCTACTTAGCAGACAGCGGTAGCAACCAGCTCCTGGGCGCT
NTTGTGTCAAGCAGGCGACACATCCGTCCTNCACCTGGGGCATGTGGACCACCTGNTGGG
CAGGCCAAGGCNNCCCCGAAGCCAACTGA
Sequence=932;DNA;Homo sapiens
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Sequence=933;DNA;Homo sapiens
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Sequence=934;DNA;Homo sapiens
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Sequence=935;DNA;Homo sapiens
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GCCACCCGCCTCAAGAGATGAGAGGACCTCACCCTCCAGGTGGACTACTGGGACACGGCC
CTCAGGAAATGAGAGGTCCTCAGGAGATCCGAGGCATGCAGGGGCCTCCACCCCAAGGAT
CAATGCTGGGACCTCCCCAGGAATTGCGAGGGCCTCCAGGCTCACAAAGTCAGCAGGGGC
CGCCCCAGGGCTCTTTAGGACCTCCACCCCAGGGTGGCATGCAAGGACCCCCCGGACCTC
AGGGACAGCAGAACCCAGCAAGAGGGCCACATCCATCTCAAGGGCCAATACCATTCCAGC
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GCACAGGCCCCCCACC
Sequence=936;DNA;Homo sapiens
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CAAGCCGGCGCCAACGAGTCCGGGGGCATCGCCCGCAGCGGCCAAGCTCATGGCCGGCTG
AGCGGGACGCCGCCTNCGCCTCAGCCACCGCCGCCGCCGCCGNCTTCTTCTCCTCAGCCG
GCGGCGGCCCGGGCCCAGCAACCATGGCTGAAGACTACTGGGACGGGCGCCTGCGGCGAA
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Sequence=937;DNA;Homo sapiens
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NAAANCCCCCCCCTTTTTTTTTNGGGGGNGAAANTTCCCCGGGTNNNNGCCNTTTTTTTT
TTTTTAAA
Sequence=938;DNA;Homo sapiens
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ACGGTTCCCAAGGACCTATATGTGGTAGAGTATGGTAGCAATATGACAATTGAATGCAAA
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AGACAGAGGGCCCGGCTGTTGAAGGACCAGCTCTCCCTGGGAAATGCTGCACTTCAGATC
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CATCTCTGACAACGCAGTTGACAATGACAGCTTCTACGTGGAGATGATCCAGGACAGTAC
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CAGCATCCCCACCTTTGAGCTGCTGCAACCGCCCTGGACCTTCTGGTAGAAGAGTTTGTC
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Sequence=940;DNA;Homo sapiens
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CCGCCTGGAGGGGGCCAAACCCCCA
Sequence=943;DNA;Homo sapiens
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CGGNCGGNCTTCCGCTGGGCAGAGCTCAGCAGTACTTGGCAGCATGGGACCCAGCTTCCT
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Sequence=950;DNA;Homo sapiens

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TGCACTTGGGGGAGCCCCCTACCAGGTGACGGGCTGTGCCCTGGGTTTCTTCCTTCANAT
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Sequence=951;DNA;Homo sapiens

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Sequence=952;DNA;Homo sapiens

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TABLE 2

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AACTGGGACTACAGGTGTGCACTCCTCGCCTGGCTAATTTTTTATTTTTTGTACAGGCAG
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AATTTTTGGTTTTTTTACCT

Sequence=956;DNA;Homo sapiens

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CGGGCGGGATGGGCCGGCGCCGGGCGCCAGAGCTGTACCGGGCTCCGTTCCCGTTGTACG
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AGACAGGCATAAAGAATGGCGTGCACTTTCTGCAGCTAGAGCTGATTAATGGGCGCTTGA
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Sequence=957;DNA;Homo sapiens

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Sequence=959;DNA;Homo sapiens

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Sequence=960;DNA;Homo sapiens

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Sequence=961;DNA;Homo sapiens

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Sequence=962;DNA;Homo sapiens
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TABLE 2
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Sequence=968;DNA;Homo sapiens
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Sequence=969;DNA;Homo sapiens
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TABLE 2

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TABLE 2

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Sequence=1004;DNA;Homo sapiens

CGTTTTNNTTCTTCCCTTGGATNAATATTTTCTACTGAAAAGAAATGAAATCTCAGTTCC

TABLE 2
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CCAGCATTGACACTGGTAGCTGAGGAAGGGGACTGCTCAATTTCTAATGTGATCTATTCA
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Sequence=1005;DNA;Homo sapiens
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CACTGCGAGTCCGACTCTAGTGGGGGCAGCGCCTAGCGGACTCCCAAACCCGCTCAGGTC
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Sequence=1006;DNA;Homo sapiens
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GAAATAGNGGACAGGGGGATCTTTTATTTATAATNCTCATCAAGATGAGTGAGGTTGTTC
ACCAGGATATTTTTTATGGTTTTTTTTTTAATTTTTCTCCAAAGNAATTATTTTTAATAGG
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AAAGGAAGGTNGTTTGTAAAATTAAATCCATTATTTTACCACCTTAAAAAATTTGGGGGG
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Sequence=1007;DNA;Homo sapiens
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TABLE 2
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Sequence=1015;DNA;Homo sapiens
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TABLE 2

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Sequence=1016;DNA;Homo sapiens

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ACCCTGGGTAAGACCCTTCCTTGTTTGACCCTCAGCTTTCCCATCTGTTTAATGGTGGCT
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TCTGGCAAGCGGG

Sequence=1017;DNA;Homo sapiens

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CGCCAGGCGCTGNCGCCGTGTGCCNTCCGCCGNTCGCCCGCGCGCCCGCGCTNCCCGCCT
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Sequence=1018;DNA;Homo sapiens

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TAATGCCTATGCATTTACTCTTTCCTGATTTAGGCAGAGGTGGCATTTTCTTTATTGCAT
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TCTGTGGCCTTGAATATTTTATTATCACATGTGGCATAACAGTATCCACACTTTTTAGTT
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Sequence=1019;DNA;Homo sapiens

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TABLE 2

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AGGCTGCCGAGGGTGCCGTCAGCCCAGCCACCTCCCCTGCCTCGGTGGACAGCCACGTGA
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Sequence=1021;DNA;Homo sapiens

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Sequence=1023;DNA;Homo sapiens

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Sequence=1024;DNA;Homo sapiens

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TABLE 2
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TABLE 2

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Sequence=1033;DNA;Homo sapiens

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CAGCTGACTCCAAGCCTTGTGGAAACTCTAGAAGGTAGAACCAGCCATCTGGGGAAGCTG
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Sequence=1036;DNA;Homo sapiens

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CGCGCGGCCGGCGATGCANGGGGGCAACTCCGGGGTCCGCAAGCGCGAAGAGGAGGGCGA
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Sequence=1037;DNA;Homo sapiens

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GGCGATATGTGGCCAAGAAGCTGAAAGAACAAGCAAAGGCACTGGACATCAGCCTCAGCT
CTGGAGAGGAAGATGAAGGTGATGAGGAGGACTCAACAGCTGGAACCACAAAGCAGCCCT
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Sequence=1038;DNA;Homo sapiens

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TABLE 2

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Sequence=1039;DNA;Homo sapiens
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TGCTGCTGTGCCTGCTGTGCAGTTCGTGCTTGGGGTCTCCGTCCCCTTCCACGGGCCCTG
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CA
Sequence=1044;DNA;Homo sapiens
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TABLE 2

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GAGACAGCTAAGAAGAAAACAAAGAAATAAAGCAGTTACAAATTGTGATAAAGTGCTTTT
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ATTACCTGTAATTGGGTTAAATGCTGGTAGGGTTTAAAATCTGATTGCTAAAGTGAATTC
TCTATAAAGTGAGTTTTGATACATAGAAACTTTNCATATAATTCTTAAACTCATGTGTCA
TGTATTTTCATTTATAGTTTTTCATATTCATTAACATATGTTGTTCCTTACCATTTACAG
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TCGAGTAATTTTGGAGGTTT

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CGGCTGCGCTCGGGCCGTGCGCGGNGGCCGTGCGGGCACGCCATGGACTTCAACATGAAG
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GAAATTTGGCCAGGCTGAGAAGACTTGAGCTTGATGCCCACTTTGAAAACCCTTCTGGCC
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TGCTGCAGCCCCAACCCCAGTGCCCCGAGTGGAGGGAATTANCTGTATGAAGAAGCTTG

Sequence=1047;DNA;Homo sapiens

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AGGAACCTGCCCCGAAGGACAGGGAGGCCAAGGTGGAAAGGCCCAGCACCCTCCGTCAGG
AGCAGCGTCCTCTTCCCAACGTGAGCACCGAACGTGAGAGACCCCAGCCTGTCCAGGCCT
TCAGCAGTGCACTGCACGAGGCTGCCCCCTCCCAGCTCGAGGGGAAGCTGCCATCTCCTG
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AGCTCAAGTAATGTCGTCTTGAAGACGGGATTTGATTTTCTGGACAATTGGTAAAATGTA
TTAGAAAAATACAATGAAAGAACCCTAAAATGTTTTCCAAAATGGTGTGGTGGAGGAGGA
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Sequence=1048;DNA;Homo sapiens

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CCCCAGAATCCCAGGATCTCAGCTGAGCTGTTTGTGGATTATTAGATCTGACTTAAAAGA
ATATTATCCAGCAATGCAAATGAACAAACTATAACTACACACAGCTGCATGGATAAATGT
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CTGTGCATGTACAGTGGCCAGGAGAAGGGAGCACTGGCTTTTGCTTTCATCAGGCCAAAG
ATGCCTTTCTTTGGGAATACGTTCAAGTCCCAAGAAAGACACCTCCTCGGAAGGTCGGCA
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Sequence=1049;DNA;Homo sapiens

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ATGTAAAGTCTTAGAACTATATTGAGCATCCCATCAAGGCATTGTATTATATTGAAACAA
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ATTNCTAA

Sequence=1050;DNA;Homo sapiens

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TABLE 2

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Sequence=1051;DNA;Homo sapiens
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GAACAGAGTGCTGTTTTAGAGCTGGCAGCAGCATCTCAGCCCAAGAGAAGGTTATATTCC
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Sequence=1055;DNA;Homo sapiens
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Sequence=1056;DNA;Homo sapiens
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Sequence=1058;DNA;Homo sapiens
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TABLE 2
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Sequence=1067;DNA;Homo sapiens
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TABLE 2
161/3461

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Sequence=1068;DNA;Homo sapiens
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TABLE 2
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TABLE 2
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TABLE 2
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Sequence=1101;DNA;Homo sapiens
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TABLE 2
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CGGC
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TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2
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Sequence=1134;DNA;Homo sapiens
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Sequence=1135;DNA;Homo sapiens
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Sequence=1136;DNA;Homo sapiens
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CCAGGTGTTCACAAAAAATCAGAGAATCTTTTTNAGGGGGTGGNCGCNTTAACCCTTTTN
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Sequence=1137;DNA;Homo sapiens
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Sequence=1138;DNA;Homo sapiens
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Sequence=1139;DNA;Homo sapiens

TABLE 2

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GNGGCGGCCCGAGGTACCAAATGAAGTGTGAAGACAAGGCCATCCACCACTTTATAGAGG
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TCCTTCAGGAGCTGAATGAAAAAATGCAACA

Sequence=1140;DNA;Homo sapiens

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Sequence=1141;DNA;Homo sapiens

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TGCACAGCCTGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAACATGTCC
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CTGCCCG

Sequence=1142;DNA;Homo sapiens

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Sequence=1143;DNA;Homo sapiens

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TGCACAGCCTGTGGTCATAGAAGGGGCTACAGCTCACGCATCGTGGGTGGAAACATGTCC
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CTGCCCG

Sequence=1144;DNA;Homo sapiens

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TABLE 2

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Sequence=1145;DNA;Homo sapiens
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TABLE 2

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Sequence=1151;DNA;Homo sapiens

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TGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATTGGGGGGTAGGTCCCGGGCTTGG
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TCACCTT

Sequence=1152;DNA;Homo sapiens

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CTCAAGGGGCA

Sequence=1153;DNA;Homo sapiens

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Sequence=1154;DNA;Homo sapiens

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Sequence=1156;DNA;Homo sapiens

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TABLE 2
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TABLE 2
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TACCAGGCTTTTG
Sequence=1163;DNA;Homo sapiens
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Sequence=1164;DNA;Homo sapiens
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Sequence=1169;DNA;Homo sapiens
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AGAACGGCTGCCTAATTTACAGCAACCATGAGGCCACTTAAGGATGCAGCAAGAAGGAGC
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GGACTTCTAGCCTCGAGAACTTACAAATGGTGATGATCAT
Sequence=1170;DNA;Homo sapiens
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AAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCANAT
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Sequence=1171;DNA;Homo sapiens

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GAAAAAGATCCAAACTTTTAAACTTTGTATGTTTTGTGGAGGGTGCACAATTTCTTCTAA
TATATCTTCAGGTGTTTTAAAATTTAATTTGTTTTTAATCATAAGATATCATCATGGCCA
AGAGACTGGGAAAATAACAATTTTATTCTTTCTCCTAAGATTGNGATTTTATTATTCCAA
GATCTTATGCTTGAATTACTTAGCAAGAAGGCATGATTATGCANAAGACAGGGAAATGAA
GAGAAAAGAGCGGGAATATACGAAAATGAAGCTTCCTTAACAGAGTTCATGGTGGAGATG
GTAGACACTGGTGGAGTTTTTTTCCAGACTTAA

Sequence=1172;DNA;Homo sapiens

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AAAATATTTTTTTTTGTAGAAGCACAAATGTGAAGNGTCACTCGTTCTGAGACTTCCTCCT
CTGTGAAATTCCACAATCTCTTTCTATTTATAGACTTTTCCACAGCAAACATTAGTCTAC
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Sequence=1173;DNA;Homo sapiens

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ACAAACTGTAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTT
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Sequence=1174;DNA;Homo sapiens

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Sequence=1175;DNA;Homo sapiens

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TTTCTTATCATTGTTTCAAAAAAGCAAAATCATGGAAAATTTTTGTTGTCCAGGCAAATA
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Sequence=1177;DNA;Homo sapiens

TABLE 2
179/3461

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Sequence=1178;DNA;Homo sapiens
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GGNGTTTTNAAGGGNGGGGGGGGGGCCCCCCCGGGCCCCCCAAAAGGGGTNAACCCCCC
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Sequence=1180;DNA;Homo sapiens
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TABLE 2

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Sequence=1184;DNA;Homo sapiens
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TABLE 2
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Sequence=1190;DNA;Homo sapiens
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Sequence=1191;DNA;Homo sapiens
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Sequence=1196;DNA;Homo sapiens

TABLE 2

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Sequence=1197;DNA;Homo sapiens

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Sequence=1200;DNA;Homo sapiens

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TABLE 2

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Sequence=1203;DNA;Homo sapiens
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TABLE 2
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TABLE 2
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TABLE 2
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Sequence=1243;DNA;Homo sapiens
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TABLE 2

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CTTGGAGAAAACTATAGTTGGCAAATTCCCATTAACCACAATGACTTCAAAATTTTAAAA
AATAATGAGCGTCAGCTGTGTGAAGTCCTCCAGAATAAGTTTGGCTGTATCTCTACCCTG
GTCTCTCCAGTTCAGGAAGGCAACAAGCAAATCTCTGCAAGTGTTCAAAAAAATGCTGAC
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Sequence=1253;DNA;Homo sapiens

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TABLE 2
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Sequence=1255;DNA;Homo sapiens
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TABLE 2
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TABLE 2
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Sequence=1272;DNA;Homo sapiens

TABLE 2

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CTGTCTATGCATAGAAAACTGCTTTATGCCTAAGATAATTACTGGGATTTAAGAAAGTGA
GAAAAAAGAATAGGTGGGATTGAGAAATTAGGTAAAAACAGAAGAGGCCAACTAAACCCA
AGTGCTGCCCTTCAAGGGCTCTAGTAACCGGACGCGTGGGTCGAAGCTTGACCT

Sequence=1277;DNA;Homo sapiens

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAATCCCGTCTT
ACAGAAGAGAAAACTGAGATTTAGCAACATAAAAGTATTTCCCGTAAGTAAACAGTAGAG
CCAAGATCTTGACCTACGCCATCTGATACCTGAGCCCATGCTATAAAAGAGGAGCATTAG
AAATATTTGAAAGATAGAAATGAGAACTAGTCAATATTTATTTTGCTTAGCACTGTATTC
AGTATTATGGCATCTTAAAGTAGTTAAGACTCAATATTTCATCAAAAAAGTTTAAAATCT
AATCAGAGAAT

Sequence=1278;DNA;Homo sapiens

TACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCG
TCCGGCCACATTTTCAATTTAGCCATTTTTCTCTTATTCACCTTTTTCTGCTAATTACTC
TGTAATTCCACTAAGAAAAGTCAATAGATAATTCCAATAATGACTTCACTCCTGAGAATT

TABLE 2

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TTATTAGCTGCTAACGCTTGTCTCATCATAAGCACTCATATGTTCATTGAGTAAATATTT
ATTGAGTATTTGCTATGGTCCAGGCACTGTGCTAAGTATTGAGGATAAAATGGTGATTGA
AACATTTTCCCTTCTTGATTTTAACATCTACAAAATAAAAAGTATGTTAATATCAAAAAA
AAAAAAAAAAAAAAAAAAAAGGN

Sequence=1279;DNA;Homo sapiens

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAAAGCCTCACTCACAATTATT
TTTGAGATAGCTCCCAATGAGTTTAATCACTGCTATGCCAGGTGTGTGAGGCTGCTGTGG
GACAACAATCTTGATTCCTAGAAGAGTCATAAATTTCTAGGGACTACAGGCTCCTGCCAC
CATGCCTGGCTAATTTTTGTAGAGATGGGGTTTCACCATGTTGCCCAAGCTGGTCTTGAA
CTTCTGAGCTCAAGCGATCCACCTGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGTGTG
GGCCATCACGCTTGCCCTAGAGTAATATTCTCTATTATCAAGGTAGAAAGTTCAACATAT
ATTCATTAGATCTACTTTATAGATACTGTTACTCAGATCACTTATATCGTTATATGTATT
TTTTGTCTTCTTAACTTCAAGTCTTGGATGAGAGAAGAGGTGTTTTAAATTTCTCTGTTA
TTTCTAGGGTTCTATTCATTTT

Sequence=1280;DNA;Homo sapiens

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AAAACATACTCTGATCACCCCGAGAAAGTAAACAAAGATGATGAGGAATTCATAGAAAGC
AATAAAATGCATGCTATTAATGGAAGAATGTTTGGAAACCTACAAGGCCTCACAATGCAC
GTGGGAGATGAAGTCAACTGGTATCTGATGGGAATGGGCAATGAAATAGACTTACACACT
GTACCTGCCCGGGCGGCCGGCCGCCCGGGCAGGTCCGGGCAGGTGCTGTGAGTGCTCTGG
CGAAGTTTGGAGCCCAGAATGAAGAGATGTTACCCAGTATCTTGGTGTTGCTGAAGAGGT
GTGTGATGGATGATGACAATGAAGTAAGGGACCGAGCCACCTTCTACCTAAATGTCCTGG
AGCAGAAGCAGAAGGCCCTTAATGCAGGCTATATCCTAAATGGTCTGACTGTGTCCATCC
CTGGTCTGGAGAGGGCTCTGCAGCAAGTACCT

Sequence=1281;DNA;Homo sapiens

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TCCGACCAGTGTAGGTGATTACATTAGCCTTTGAAGTCAACACAAAGTTTAAAACACCTG
CCCGGGCGGCCGGCCGCCCGGGCAGGTGTACAAGCTTCGACCCACGCGTCCGGCTGAAGA
CATCCCTAGGGCAGGTAGCAGAATACCTAATTCAACCTAGAGAGGCACAGGCTGCACGAG
AGTCTCTCAGATAAAGCCCCATTGAAAATAAATTTACAATCTAAAATTTAAAAACCCGTT
AAAAAAGCAGCACAGCATGAGGAGTCAGTAGATACACTGAAAGCAAGATTAGATCTTCAA
GACTTTCAAACTATAAAATTTAGAAAATTATAATAAATTATGAAATAGAGGCCCTTTCAT
GTCAAAAAGTCATGAAAG

Sequence=1282;DNA;Homo sapiens

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AAAAGATGAGGCAACAAGTAAGAGAAAACAGCATTGAGCTTAGAGAATTGGAGAAGAAAT
TAAAAGCAGCTTACATGAATAAAGAAAGGGCAGCTCAGATTGCTGAAAAGGATGCCATTA
AATATGAACAAATGAAACGTGATGCTGAAATAGCCAAAACCATGATGGAAGAACACAAGA
GAATAATAAAGGAAGAGAATGCTGCAGAAGACAAACGAAACAAAGCGAAAGCACAGTACC
TGCCCG

Sequence=1283;DNA;Homo sapiens

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GGACTCTTGCCTTAAGGAGTGTAAACTTGATCTGCATTTGCTGATTTGTTTTTAAAAAAA
CAAGAAATGCATGTTTCAAATAAAATTCTCTATTGTAAATAAAATTTTTTCTTTGGATCT
TGGCAAAAAAAAAAAAAAAAAAAAGTGCGGCCGGCCGCCCGGGCAGGTACACTTGTTGAT
AAGAGTTTTCTGAAAACAGTCTATCAAATATAAAGAATGGTTTCTATCCAAGAATCAGCA
GTGAGGGAAGAAATACTAAACACCTGTCAAGAAATCAGTTATTCATTTTAAAAAATAACA
GAACCAGTGCTGCTCTCTGTCATAAAAAAGAACATGTAAAATTTATTTTTATAGGCTTTG
GTAACATTATATTCCCCACAGAGGCCTTCAATCCTACTTAAAGATA

Sequence=1284;DNA;Homo sapiens

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TAGTTGGCCTCTTCTGTTTTTACCTAATTTCTCAATCCCACCTATTCTTTTTTCTCACTT
TCTTAAATCCCAGTAATTATCTTAGGCATAAAGCAGTTTTCTATGCATAGACAGTTCATT
TAGATTGGTAACATGGGCTAGGTAAAAAAAAAAAAAAAAAAAAAGTGCGACCTGCCCGG

TABLE 2
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GCGGCCGGCCGCTCGTGATCTAGATCCCCGACCT
Sequence=1285;DNA;Homo sapiens
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GGAATGCGAATGATGATAAGGCTTTTAGAGTTAGATAAGAGAGAGGGCTAGCACCCTGAT
ATTCTGTAATTGAAACAGAGTTTCAAGTCCTTTGGTCAAGTATTACCCTTATTCCTTCAG
GAATAGTAGATATTTTAAGATTACAGATAGGTTATCTTATCTAATTTACCTACCTATTGT
TGAAATTATTTAATTTGCATTTAACTGTGTTTTCACACCTGCCCGGGCGGCCCTCTTACC
TGCTTCTGACCTTATGCTCAAGAACTCCCCTAACTCTGGCCAGAGCTCAGCTTTGGCAAC
TCTGACCGTTGAGCAGCTCTCATCCCGGGTTTCCTTTACGT
Sequence=1286;DNA;Homo sapiens
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AAGCTGCTCCTTGAGGATAAGGGCTAACTCACAGGCAGTGCACCAAGAGCCACTATAAAA
AGATCCTTAATGAGCAAAATATATCCCCTATTATTTTCCTACAAGTTGCTTTTTACTTGA
GTAGGAACCCTTGATTGATTTTTGCGGACNCGTGGGTCGAANCTTGACCT
Sequence=1287;DNA;Homo sapiens
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TTACTCTCATCGCTTAGCGCCCCAGGTGGGATGTGTTTCCAAAACACATTTTTGTATTTA
TAAGGAAATGTAGTTAGGATTAATTTTATTGTCCTAATTAGAACTCACATTTTGGTTAAA
TCCTCAATTTCATTAAAAAAAAAAAAAAAAAAAGTGCGGCCGGCCGCCCGGGCAGGTACA
ATTTAATTTTTCTGCTTGCCCAAGAAACAAAGCTTNTGTGGAACCATGGAAGAAGATGAA
AATGAGACTGGCAAAGAACAAATGCTGAATCTGAAGAAGATTTGGGCAAATAATCTGCAT
ACTTTTAATTGGGAATAAGATGGAAAATATGAATGCTAAATCAAATTTTTTA
Sequence=1288;DNA;Homo sapiens
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ATTAAAGAGCTGTTGTGGGACTTCCAAAGCAGAAGACAGTAGGCTTTCAGAAATTTGATA
AAAATAGCACTTTGCATTTCTTGAATCTTGAGCTAAATGGAAATTAATACTAAACATTCT
CCACTGGTAAAATAGAGAATAAGGATATTAACAGTAAAAGAAAAGAAGAAGAAAAGGAAA
TGTGCTTCCACAGATTTAGAAACATAAGTAACAATCTAAGTTAAGGCTTTGGCACCTGCC
CGGGCGGCCGGCCGCCCGGGCAGGTTCAAAGACTACCAAAGTATGTATTTGATTTTCACA
TGCAAACAACTTAAA
Sequence=1289;DNA;Homo sapiens
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CGCAGAAACCTTGCCATCATTCTTACTGCTGGTTTGCATCTCATTTATGGTGNNTCTGGG
ATTTCTTCTCATGAACAGAAAGATTCAGTGGCTGTTATATGCCTTGTCAATTTAATGTAT
TGCCCTATCCTCTTTTTGATCAAAGATAGAGACTAAGACTGGGAATTATGACAGAAAAAG
TCATATTTTTCTTTAAATGATTTTGAAATGTTAAAATAGGCCAATATGAGTCAAAGTGCA
AATTTTTTGGTGACCTGCCCGGGGCGGCCGGCCGCCCGGGCAGGTACTAAGCATTTCAGT
TCCAGGAGAATAAAAGAAATTCCTATTTGAAATGAATTCCTCATTTGGAGGAAAAAAAGC
ATGCATTCTAGCACAACAAGATGAAATTATGGAATCAAAAGTGGCTCCTTCCCATGTGCA
GTCCCTGTCCCCCGCCGCCAGTCCTCCACACCCAAACTGTTTCTGATTGGCTTTTAGCTT
TTTGGTGGTTTTTTTTTTTTT
Sequence=1290;DNA;Homo sapiens
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ACAAGACTATGTAGTCAGTAAAGCACAAACAAAATTGGGGCTTTCCCTAGCAAGGTTGGA
AAGGCGGAGAAGAAATGGATTTGGATAGGTAGTCAACAATGTCTGTTTTATGTTACCACA
CATTTTCTCGAGAAATTTCAATCAGCTCTCTGAGAACAGATTCATCTTTAAATGAATGTT
CATAGGTAACAGCAACTCATGCATCAATGTTGCAAAGTGAGCTCATTTTCACATTGCTTC
AGGTTAGGCAGAAGGTTTGGTAAAGGGATTAACGTAATTGTTTCCTTGNTGTTTACAAAA
AGAAGTCCCAGTTGGCATGCCACATAAAATCTTCTGNATCTCACTCTTGGTTACATTTC
Sequence=1291;DNA;Homo sapiens
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TABLE 2

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AGGCTCCCAAACCGACAAAGTGAAAAGAGACCAGAGAGGCCAAGCATATTGACTGGTGCT
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TTCCTGTATGTGGCTGCTCTCAGATCTTTCCAAGCAAGCCAGTCATTTGAAGAGGTTTTC
TTTTCATGCTGGAGGGCAGGCTAAGATCAATGAGTGGAAGAGAGAAAGGCTGTTTTAGCT
CAAGTTAAAGGAACACCTTCTAGCCATCAAAGCCGCCCAACAGAGGCAAGGGCCACCACA
CATGAGAGAGCGCTCTNTCCTTAA

Sequence=1292;DNA;Homo sapiens

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NTACATTATGTACACCATTTACAGGAGGGTAACACAAACCTTGACAGGTAGTAACTTTTC
ACCCCACATNACTGAACGCTTAACACTCCTGGCTGTTAATTGTCAGTTCAGTGTTTTAAT
CTGACGCAGGCTTATGCGGAGGAGAATGTTTTCATGTTACTTATACTAACATTAGTTCTT
CTATAGGGTGATAGCGGACGCGTGGGTCGAAGCTTGACCT

Sequence=1293;DNA;Homo sapiens

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AGTCTCTTGAACTTCTAGGAAGAGGCAAACTACAAACTACTAGGATTCTGATTTCAGATA
TAGGCATTCCAGAATCTTCTCTTTACGAGTTCACCTGCTAGTATAATCTCCACAACTTGA
ATGGCCTTGGTTGTTCTGTAATTGCTGCCAAAATCATCACAAGCTGTACCTGCCCGGGCG
GCCGGCCGCCCGGGCAGGTCAAGCTTCGACCCACGCGTCCGGATGGGAATTCAGGTATGA
AAGAAAACAGGCAAGGAGGCACTGAGGGAGAAAGACACAGACTTTATCGCTCTGTGGCTC
ATTGTTACTGGAATATTCTAAAACTCTTGTTCACATGCTATTATGACTTATAAAGCAGCA
ACAGCTGAGGCGCACCAGGACACAGCTTCCATTTCTTTAACGT

Sequence=1294;DNA;Homo sapiens

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AAAATGGGAGACAATTTCACATGGACTTTGGAAAATATTTTTTTCCTTTGCATTCATCTC
TCAAACTTAGTTTTTATCTTTGACCAACCGAACATGACCAAAAACCAAAAGTGCATTCAA
CCTTACCAAAAAAAAAAAAAAAAAAAGACCTGCCCGGGCGGCCGGCCGCCCGGGCAGGTA
CAAGCTCGACCCACGCGTCCGAAATAATAAAGCTAGAAGTAATATTTTTCCTTTTGTCTA
TTTTCCAAATTGACTCGATATTGATGGCTACTTTTGTAAGTTTTTATTTAAGTTTAAAGG
GAATATTTATTGATCACCTNTATGTGCTCAGTACCT

Sequence=1295;DNA;Homo sapiens

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GTCAATCACTTCTGACCAAGTTATCAGAAAAAGGAGAAAAGAATGTCTCCCCACTAAATG
TTCTAGGGTGGTGAGAAATCTAGGGTGGTTATCTAAATCAACAATATTTAGATATTCCAA
TATCTAAATATTGTTGGAAATACTCTCCTGAAGTGTTCATTGAACTCTAAGAGAGACAGC
TTGTGTATCAGTGGCAGGGTTTAAGGTTCATTTTTTATTCCCATATTAATCCTTTAATAT
TTAGACAAATTTCCTTCTGAGTTTAAGGATAAAATGGGATGGGTTCTGCCTGGGCCTGGC
CCTCATGGGGACATCAAAGGGCAATGTTGCAAAAAAAAAAACC

Sequence=1296;DNA;Homo sapiens

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AAATTATCAAAATAAATTATGTTGTAGTGAATCTGTGTTTTGAAAGTCATTGATAGGACT
TATATGAGTCAAAATTTTATGGATTATAAACTAGGCTTTATCTGGTTGGAAATAATTGCA
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Sequence=1297;DNA;Homo sapiens

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CTTCTGGGATCTGTGTTTTGGTGTCTATCATTAACTTTGGAATATTCTCAGTCATTACTG
CTTCAAACATTCATTCTGTTGCTTTTTCTCTTCTGGTATTATCATTACACATATATCACA
CCTTTTGTAATTCTCCCACAGTTCATAGATATTCTGTNGTATTTATTTATTTTTTCTCTT
TGCCTTTTAGTTTTAGAGATTTCTATTGACATCACTTAAAGATGATTGATGAGTTGATGA
GAATTGAGAGAATTGATGAGAATTGTTGATGAGAATTATT

TABLE 2

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Sequence=1298;DNA;Homo sapiens
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AACATTCGTTTGTCAAGAGCAAAAAAACCCCCTTGGGTTCTCTGGATCTCACACAGCCCA
CAAACCTTCAGAATGTGGTTCCTTCCCGCAGGCTTTGTCACACTTAAGATCCAAGAACAA
ATCAGCCTGGCTTTAACATGGGGTAGATGGCAAGAAGGATAATGCGGACGCGTGGGTCGA
AACTTGACCT
Sequence=1299;DNA;Homo sapiens
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CTACCAAAGTGCTGGGATTTACAGGCATGAGCCACCTCTCCCAGTCTCAGTTATTATTTT
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CTGTTTAAGTATCTCTTTAAATTCTTCAGTTAAGCGGACGCGTGGGTCGAAGACCTGCCC
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AAAATCAAGTTGTAAACTTTTATTACAAATTAAAAATGAAGTTCTTAAAAATCTCAACTT
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AAA
Sequence=1300;DNA;Homo sapiens
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TATATAAACTTCTGCTTTGGTCTAAAACTGATATATCTTCACGTTGAGGTTTCATCTGAA
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GGCCGCTCTAGAACTAGTGGGATCCCC
Sequence=1301;DNA;Homo sapiens
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ACTTTTTTTAACCTTTCCTTATGAGCATGCCTGTGTTGGGTTGACAGTGAGGGTAATAAT
GACTTGTTGGTTGATTGTAGATATTGGCGGACGCGTGGGTCGAATCTTGTACCTGCCCGG
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TTGAACTGATCATTGAAAACTTATAAACCTAACAGAAAAGCCACATAATATTTAGTGTCA
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Sequence=1302;DNA;Homo sapiens
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TTTGCCCAGCTGCCTCCCAGCCTCGAGGCCACATCCTTTATGACCCACATCTAACTCAGC
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ACTCCTGACCTGCCCGGGCGGC
Sequence=1303;DNA;Homo sapiens
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TABLE 2
199/3461

TAAAATCTCCCTTATGAACCCTTCCTCGAAATCCCAAGGT
Sequence=1304;DNA;Homo sapiens
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CTAGGGTGGTGAGAAATCTAGGGTGGTTATCTAAATCAACAATATTTAGATATTCCAATA
TCTAAATATTGTTGGAAATACTCTCCTGAAGTGTTCATTGAACTCTAAGAGAGACAGCTT
GTGTATCAGTGGCAGGGTTTAAGGTTCATTTTTTATTCCCATATTAATCCTTTAATATTT
AGACAAATTTCCTTCTGAGTTTAAGGATAAAATGGGATGGGTTCTGCCTGGGCCTGGCCC
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Sequence=1305;DNA;Homo sapiens
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AGTACCT
Sequence=1306;DNA;Homo sapiens
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CCTTAAGTAGGAACCAACTACAAT
Sequence=1307;DNA;Homo sapiens
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CCTGGTCTTAAATGACCCTTTTCCCATCAG
Sequence=1308;DNA;Homo sapiens
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GAAATATTTCCTGGTTAAGTGGAAAATTGTGCGGATGTGGCTTCTGGAAGACCTTCATTC
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AGAGCACAAAGATTCTAGGATACTGCGAGCAAATGGGGTGGAGGGGTGCTCTCCTGAGCT
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CAGTCAGCAATGGNGATCTTTTTGCTNGTCTTGCCCATTCCTGGA
Sequence=1309;DNA;Homo sapiens
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CATCAAGATTTTTGACAAGAAAATTTTAGAAAAACTGTGGAAGAAAACTGATTGCTCTTA
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GGACGCGTGGGTCGAAGCTTGACCTGCCCGGGCGGCCGAGGTGGATGGACCCATCCATTC
AGGCAGGGGGTGTGGGGTGTCCCCTGTGCTTAGAAACCACCTAGCATCATAAGCTGCAAC
AGCACTTTATTGGGATCTGAGTCTACAGTTCACATAGGGAGGTGAAGCCGTGGGAGAAGC
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AAACCTAACAAAAAC

TABLE 2

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Sequence=1310;DNA;Homo sapiens
CCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGTAATTTGTTGCACACTAT
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TAATTATGGAACTTTNTTACAGATTTTACCAAGTCTGGTCAACCCAATAAGAAAAAGACT
GAAATAACAATAACAACTTCAACAAATAAAAAAACAGTTAAGCTAAATAAACAGATGATT
GCAGAATTTATGTGATTACTGGGTACCTCGGCCGCTNTAGAACTAGTG
Sequence=1311;DNA;Homo sapiens
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AACTCCACAGATCACTCCTCCTGTAATCCCTCTAAGTGCTCCAAGGCAGCAGAAAGGCCC
AGTGCATTGAGGCTGGAAGCAGGAGCAGAGACTCTGGGATATAGTGCGAAAGTCTCTTTC
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ACACATAGTTCTCAGTCTTGACCACACATTAAGAATCATCTGGTAGACTTCTGTAAACTA
CCAATGCCTGGCCA
Sequence=1312;DNA;Homo sapiens
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Sequence=1313;DNA;Homo sapiens
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GAATTCTNTGTAGAGTGGGAGGCGAACACGNCTGGNNCTTCCAACTCAGGAATTCTCGTG
GCTGGGCTGGGTCAGCGATGGCTTTGTCTCTTTATGTCTAAAGTGCCCTATGGCATGCTG
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AACTGTGCAATTGAAGAAGACCCGATGGATCAACCCCATGTCTTCCTTGGGGAGAAAGTG
CATAAACCAGGGGTCCCTTTTTTTTTT
Sequence=1314;DNA;Homo sapiens
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AAAAAAAAGT
Sequence=1315;DNA;Homo sapiens
GCGCGTATACGACTCCTATAGGGCGAATTGGGAGCTCCCCGCGGTGGGCGGCCCGAGGTA
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GAACAAAAGAGATTGCAGATTACTTCGCAGATACAGAATAAAGCAATTGATGAAGTGCTT
AAGCAAAAGAAACAACAAAAAAAGAAAACACACTGCTTTTCTTTTTAAAAATAAAATCAC
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TAGCAGTGCTTTTATTTGCACTTCACTTAATTTTATAAGACTCATTTTCATGTATATAGC
TCTTTACCCCCATTGTTAACGAATAAAGTCTCTCATAATTTTTACACTTTTAAATTTTTT
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Sequence=1316;DNA;Homo sapiens
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GGCTCATACCTGTAATCCCAGCGCTTTGGGAGGCNGGTGGGTGGATCACCTGAGGCTAGA
TAGTTTTATTCACTTGGCTGTTTCACCAAAAAAAAAAAAAAAAAAAAAGTGCGGCCACCT
Sequence=1317;DNA;Homo sapiens
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TATGCACAAGAATTTCTGCATTACATCATTTGACATAAAATGTTCTGAATGACAGAAGTA
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TAGGAACATGAAAGAAACTTGGAGAGAGAAGACATTCAATACTCTAAAATACTTCAGCAA
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AATCCTTCCTTTAAAATAAAANAAAGCNTGGNTTNTTTTTCTGGNGTCAAGAGTAAAANG
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CACCTNCTTCTGGGAAGTTCTCTTGAACTCAAGAACTCTTTATTTTCTATCATTCTTTCT
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CTTGGGCCCNTTTCTAGGTTTGAATTATTTCTAAGCCTTTTGGGNATGATTAGAGNGAAA
ATGGCNCCNGCAAACTTGNAGGGGCTTTTGGNNCCANAATGATTTTTAATAAAAAAAAGG
GGATTGAATAGNTAAANTCAAGGGAANGGTTTATGNAAAGGAAAAAAAAAAGCCTCCTTC
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AACTGGATGAAAGCTATAAACAATAGTTCAGAAGATTGGCGTAGAGGATTTACCTACAGA
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TTAAGCATGGGCTCAGGTATCAGATGGCGTAGGTCAAGATCTTGGCTCTACTGTTTACTT
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TACCT

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TGGAGAGAATGTAAAAATATCTAACTTCAAACAGAAAAAAGAAACAACTGGAATGAAAAG
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CCTAAGAAGGCCTTCAGTGATCTTTTCATCAATATCATCAGGCCTTATCATTGTTTCACA
TTTGCTTCTCTTTACCATAGGGAATATAATAATTATTTACTGGTTAACTTCCTAGGGAGA
TTGCCTGCGGCTTATTTAAGATCCAAATTTTAAAGTAATAATTTCTGTTGAAGCTGCTTG
TGAGGTGGTTGGGTGGGCAGATAGAGTGAAGCCAGGGACACACACTAAATGAGCCCGGGA
TGTAGGCAGGTTTTGATGGTTTGCTTGC

Sequence=1322;DNA;Homo sapiens
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TABLE 2
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ATTTCAGCATTATCTTTAAAAAGTAAGGACATTGGCCGGGTGCGGTGGCTCATACCTGTA
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Sequence=1323;DNA;Homo sapiens
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GAAGGAACCACATTCTGAAGGTTTGTGGGCTGTGTGAGATCCAGAGAACCCAAGGGGGTT
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Sequence=1325;DNA;Homo sapiens
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GTTTCATGTGTTATTNGTGAAAAT
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TCAGGCCAGCCAGTTACATACTTTTGAAAAGCCAAGAGTGAAGCAGGGTTGTTTTTCATC
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CA
Sequence=1329;DNA;Homo sapiens
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Sequence=1330;DNA;Homo sapiens

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AGGCCAACCTGGAACATGATCCTCAACTTCTCTAAGTTCACCTTTCCCAGGTGTGAAATG
GGTTGTTCTGGGAATTGAGTGAGCTAATGATACACTCCCTGGCACACAGCGAGCCTCAAA
ACGCTTGTGTCCCCTCCCTACCTCACAGCCCATTTTAGAAGTTTGCTGTCACTTACTTTG
GAGTCAGCAAAAACATATTCCTTCCGCAGGATCTTCCGGACGCGTGGGTCGAAGCTTGAC
CT

Sequence=1331;DNA;Homo sapiens

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GCCGCTTNACCATGATGATGGACAACAGGCAACTTTTTTTTTTGGAGTTTCAGCTTGCTTC
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TAAGCCGTATTCCTAGGTAAGCAGCTGGATTGCAGTTTTTGTCTTGGAAATTNTCCTTAA
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Sequence=1332;DNA;Homo sapiens

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Sequence=1333;DNA;Homo sapiens

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GATTAAAGTACCT

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CAGTCAGCCAGCTGGAAAAGCCGAAGGGATCAGGGAGCCAAAGGTGACTGGGAAGCTAAA
GCAACAATCACCTAAATTACAGTCCTCCAAGAAAGTTGCTTTCCTCAGGCAGAATGCCCC
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Sequence=1335;DNA;Homo sapiens

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Sequence=1336;DNA;Homo sapiens

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Sequence=1337;DNA;Homo sapiens

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NNNNNNNNNNNTGATCTAGATCACGAGCAGCCGCACTTTNTTTTTTTTTTTTTTTTTGA
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Sequence=1341;DNA;Homo sapiens
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TABLE 2
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Sequence=1345;DNA;Homo sapiens
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Sequence=1349;DNA;Homo sapiens
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Sequence=1352;DNA;Homo sapiens
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TABLE 2
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Sequence=1353;DNA;Homo sapiens
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Sequence=1354;DNA;Homo sapiens
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Sequence=1355;DNA;Homo sapiens
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Sequence=1369;DNA;Homo sapiens

TABLE 2

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Sequence=1370;DNA;Homo sapiens

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ACATACCTCCTTGCACAAATGGAGGGGAATTCATTTTCATCACTGGGAGTGTCCTTAGTG
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Sequence=1371;DNA;Homo sapiens

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CTCCACCTCCAAGGGGTCTGTCTAGATCAGTGCGGACGCGTGGGTCGAAGACCTGCCCGG
GCGGCCGGCCGCCCGGGCAGGTACTGAGGACAAATCAGTTCTCTGTGACCAGACATGAGA
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Sequence=1373;DNA;Homo sapiens

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Sequence=1375;DNA;Homo sapiens

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Sequence=1377;DNA;Homo sapiens

TABLE 2

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TABLE 2
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Sequence=1385;DNA;Homo sapiens
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Sequence=1386;DNA;Homo sapiens
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Sequence=1387;DNA;Homo sapiens
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Sequence=1390;DNA;Homo sapiens
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TABLE 2
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ACTCCCCCGCAGTCTCCCGTGCCCCAGATGTAAGTTCCATGAGGGCAAGCCCTGTGCTTT
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Sequence=1396;DNA;Homo sapiens
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GTCCCAGCTACTCAGGAGGCTGAGGCAGGATAATTGCTTGAACCCGGGAGGTGGAGGTTG
CAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTTTGTCTT
CGGAAAAAAAAAAAAAAAAGATTTGGCGGATGAAAATAACCAGAATGAAAATAGCTNGAA
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Sequence=1397;DNA;Homo sapiens
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CGCTTTCTCAAGCCTAGCCGATTAGAAGGGGCTGCCGGGCTTCCACCACACCTCATCGAG
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Sequence=1398;DNA;Homo sapiens
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CTCAGGAATAACACTTGCAAGGGAGTTCCTGATGAAGTGGATTCTTGTTATTCTAGGAAT
AGGCCTACATGGTGCACTGGCAATGTGAGATTATACCTCAGCATTTTCAAAGAGCATAAA
AATCTAGAGCTGGGGGGTTTAAAACATGACAAACCTAATTTTAAGTAGGCAGACAAATAT
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TGGGCAGGTGCTACTGTGGAAGATCTTCGTTTTCGACTACCATTTGGTGATTCTTGCTTT
AAAGTCTCAATATCAGTAAACTGAACAGATTNCCACCACCCCTTGTTTTATAAATATCAC
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TACCTGCCCNGGCNGGCCGTCTANAACTAAGTGGATCCCC
Sequence=1399;DNA;Homo sapiens
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TTTTTTTTTTTTTTTTTTGGAGCCAAAATTGTGTGCATTCCTACTGGGAAACACAGTGGCC
AAATCCTTTTGAATTGTTTCCTTCTAGAGACTTTAACTCTTCTGACTGCAAATCTTAGTG
TCCTGTGAGTATTAGTTGATTAATTATACTTGCTGCTTAGTGAAATACAGCCAGCTATAG
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ACCCAAAGATGCGCACATATACCCACAGGAGCTGGAGGTCCCTCGCATGCTCCTCTCGTG
CCAGCCTTTGCCTTACCCTTCACTCTCTCCCTCCAGGAGCCGTCGGTACCTCGG
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Sequence=1401;DNA;Homo sapiens
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CTGTAAATGGGAAGGACAGGCAGAGCTAAACAAGGTAGGAGAATCGCCCCCCTTTTTTGA
ATGTTTAAAGAGTTTGCTGCAGTATGCTGCATTCCATGTGTGCTGCTTACGGGAGCCAGG
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Sequence=1403;DNA;Homo sapiens
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TABLE 2

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AGACCATTTGCCAAGCTTGTGAGGCCTCCTGTTCAGGTATACGGTATTGAAGGTCGCTAT
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CC

Sequence=1404;DNA;Homo sapiens

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GAGCAGAGCACCAAGGAAGAGAGCTCGGCTAGCCGGGAAGGTCCGAATGGATTTATTTGG
TGAGGCCAAGGAACCCACTGCCTCCACGGTGTTCCTCCAGGAGGCTCCTCCCTTCACTAA
GGCAGCAAGGAGTGCACTGGTGAGGGGAAGAATTGTTGTCATCCTTTCTCTACGACTCCA
AGAGAAACTTTATACTGGAGGAAGAATATTCTACCACTTTGGGATGCTTCCAAAGAAATG
GGATACCAAAGGAGTGAACTTCAGGTCATTGGAAGTGGCCAAGCTGGAGGCGACCTATGG
AGACATGACCTTCAGTTCTTCCTGAGATCGATAAAGCAAAAAAAAAAAAAAAAAAAAGT
ACCT

Sequence=1405;DNA;Homo sapiens

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TGATTTTTATTAGTTTCTGGAGGCAAATTTAATTTTTATTTTAAAATCAAAATCTATTTT
AAAAGAAATAGTTCTCAAAAAGACAACGATGACTGGGTGTGGTGGTGTGTGCCTGTAGTT
CAGGCTGCTCGGGAGACAGAGGCAGGAGAACCACTTGAGGCCAGTTCAGTCTAGCCTGGG
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Sequence=1406;DNA;Homo sapiens

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CTAAAATTTCCCGCCTTCCCTAGTCCCAAAGAGCCCCAGCAATTCATTTTTATGGCTTGG
TATAAAGCCTACTTATTTAAAAACCTAGCTATTGTGATAGAGCAGCAGGAAACAAATGCT
GTGTGTTTAAAATTACTTTTCCCTTCCTATAGATTTGCCAGCTATCTGATCTATACTCTA
ATCCCTAGCATTTGTTTTAAAGTCTCTCCATGTTGCGCATTAACAATATCCTAATGCACT
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GAGGGAAGAGTCTGAGGAGGAAGAGATCCATGGGATTCATAATTGAAATAGAGATTGGAG
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AGGAANTTGCTGGTTCTCTTGGACAAGCTGTNATTTTAGGAAA

Sequence=1408;DNA;Homo sapiens

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GCACCTTGGGCTGTGGAAGGCTCTGGAAAGTGTAAGTTGGAGTCACTCTGGTCTAATCTG
GGCTGCAGGGTCAGAGGTGGGGTCTCCTTGTGGTGTGGGTGTGTCCCCTTCTGTAGGCTC
TGATCCCTCAGCTTAGTTTCGGGAGACCTCCCTGAGGGTGGAATACATGTCTGGCTGGGC
TCCAAGGTTTGTGTGGCAGTTTGAGCTTCTGGAAATGCTTCCTCTATGCAGCCATGCTGT
CAGCCCAGGTCCCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCATACTNTGCCT
TCTTTCTTTCACCTGTCTGCGACTCTTCAAAAAAAAAAAAAAAAAA

Sequence=1409;DNA;Homo sapiens

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TCTTAAGAGGCACTGTTCCACTCCTTTTCAAGGNGTGTGGCATATTTGAAATATGTGACT
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TABLE 2

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Sequence=1410;DNA;Homo sapiens
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CCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCAT
TCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCAT
CAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCA
CCAACCTACCATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACA
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TTTCTGAC
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CAGCAAGCAAAGTGCTTTGACTTCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACAAAAC
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TATAGCAAGATATTGATCAAATATAGAAAGTTGATATTCAACCTCACAAGGGCTCTCAAA
GTATAATCTTTCTATAGCCAACTGCTAATGCAAATTAAAACATATTTCATTTTAACATGA
TTTCAAAATCAGTTTTTCATACTACCCTTTGCTGGAAGAAACTAAAAATATAGCAAATGC
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ACCTGCCCGGCCG
Sequence=1412;DNA;Homo sapiens
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AGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGC
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AATATAGAAAGTTGATATTCAACCTCACAAGGGCTCTCAAAGTATAATCTTTCTATAGCC
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TGACTNCTTGCTTCAGTCATCAGCCAGCAAGAGGGAACAAAACTGGTCTTTNNCATTTTG
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TABLE 2

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TGACTTCTTGCTTCANTCATCAGCCAGCAAGAGGGAACAAAACTGTTCTTTTGCATTTTG
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CCAACTGCTAATGCAAATTAAAACATATTTCATTTTAACATGATTTCAAAATCAGTTTTT
CATACTACCCTTTGCTGGAAGAAA
Sequence=1416;DNA;Homo sapiens
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TABLE 2
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Sequence=1421;DNA;Homo sapiens
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CCTTTTTNCTT

TABLE 2

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Sequence=1426;DNA;Homo sapiens
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AAAAGNAATTGGAATTGGAACCTTCCAAGTTTTTTAAAAAAGGGGGAAGGGGAAGNAACC
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CNAATTTAACCCNAATTTAAAGGGGGGAAATTACCAAGGAAAAGGGGGGNCCAAGGAAGG
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CCCCGGGCGGGTTNACCCCCTTTCGGGGGGGCCCCNGGCCTTTCCTTAAGGNAAAACCTT
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Sequence=1427;DNA;Homo sapiens
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AAGNGGNCCCCTTTNTTTGGNCATTACATTAGCAGCGGAAAACANCCTTTTANTTNCTTT
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AAANANCTNCCCAAATNTNNCCTTNNACCACNGNGGGNCNNTANNCCACNNTNCTANCTT
NAGGNGNNGCCATTTGGGTTNCNCCCTTTGNNCCNGGAANTTCTNCCCTTTTCCNTTNGN
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CNCNAANAAAAANGTTNAANCCNAAAAAAAAGNGCCCAAGAGTTTTTTTTTTTTTTCCCC
CCCCCC
Sequence=1428;DNA;Homo sapiens
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AAAAACAGCAAGTTTACATGATCCCTGTAACAGGCCATGGNNCTNCAANNCTTCAGGAAT
GCCTTNCCNTCNCATTCTGGCCCAAAGNTGGTTGTTTNCNTGGGAATNACCAGGNAGGCC
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TTGNGGNTGGGGTTGGGNTTGGGACCTTCCTTAACCTTCCAAAAGTAAGNCAANAAGCNT
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Sequence=1429;DNA;Homo sapiens
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GCNCAGAGGGTTCCCTTGGGCAATNTGGTATNTACTGGGGTATCCTTCTTNTGCGGTTNC
TTTCGGGNCAATTTTTCCGATNNCCACCTTTNNCCTTACAAAGGGNCCCCAANNNTTGNC
CTTTCTCCANCNCCCCAAAAGGTTNNGTGCCCCTTTTNNNCCCCGNAANNNGGAATTGTT
NAAGNCCTTNGNAAGNGGTTATTGGGGAGGACCATTTTCCTTTCCTTTNCCCCCCCCCCA
AGGAAAAAAAAAATTTTCCNGTGTTNAAGGNGGTAATGNNAAGTAACCTCCCCCCAACCA
AATTGGAAAGGGGNTTAAAGAANTGGNTTTTTTNACCTTTTTTCCTTACCNCCTTTCCNC
CAAANNNCCTTTTTTTCCAAAGGGGGGGGCCCTTTTTCCTTTCCTTTAANCCCAAACCTTT
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Sequence=1430;DNA;Homo sapiens
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TABLE 2

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GGGNGGACCTTTTNCATTANCTTACCCCCCCCAANGTAAAAAAATTTCCGGTNNTAAGGG
GNAAGAAAAGGAACCCNCCCAACAATTGAAGGNGGTTAAGGTTGGGTATTTTCCTTTTCC
TTTCCCCCTTTCCCCAAAGGCCNTTTTTCNAAGGGGGGGGCCTTTTTNCTTTCATTAACC
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CCTTGGTTCNTTCCGNGGGTAGGAAGGAAAAAATTCCAACCAAAGGCCCCGNTCCCCGGA
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CTNGCCTGNCCCACCCAACCAGGCNTGGCTTCCCTGCCTTGGCCTTGGCCTTGGCAAGGC
TCCCCCAGGCCTTAAAGGGGTTTTGGNAAAGGNCNCCAAAGGGGAAAAGGAAGGTTCCGG
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ANCCTTTTTTAAGNCCCCAAGGTTTTTTTTAATTTTTTGGCCAAAAAAAAACCAAAAGGG
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AGTCCCAAGTANCGACCAGTNTTGNGNAGTAAGTAGGGTGNTGGGNAAATAGGTTGNANC
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CCTNCCCCAATGGTTTAAAAAATTAGGCCACCCCTTTTTTAAGGAAAAAAAAAATTTTTC
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AAAGGGGAAAAGGTTACCCCTT
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GNCCCAATTCCTTTTNGGTTAAGGTTTTGGNAATNTTTGGAACCTNTNTTTNTTTTNTNT
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TTTGGGGGTTNCAATGGAATGGGGTTTAAGGCCAAGAAAGGCCCTTGGANCCCCTTCCCC
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TABLE 2
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Sequence=1436;DNA;Homo sapiens
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TTTTTTTTCCCCCCCCTTAAAAGNGGGNNTGGGGGGGAAGGGGGAAAAGNCCAAAAAAAA
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GGGGAAATNCCCCCCCCCCG
Sequence=1437;DNA;Homo sapiens
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TATTCGGTTACCTNGTNCGGAAATGGCCTAGGAAAGNAAAGGGCCTTCTTTTTCNCGGAG
GGGTTNCGGGGAACCAAGNCNAGGAACCTTTTTGGTNAATTTTTTAATTGGTTTCCCCTT
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TAATTTTTTCCCCCCAAAATTCCAAAANCCCCTGGGGTGGGGAAATTAAAGGGAAAATTT
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TGGGAATAACCAACCC
Sequence=1438;DNA;Homo sapiens
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TGGGCCTTCCCAACNCCCTTTANTTGTTTCTTGNAAGAAATGGGNGGGGNTTTGNTTGGG
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CGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGATGAAATGCCAGGGTGA
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TTCGGGG
Sequence=1440;DNA;Homo sapiens
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Sequence=1442;DNA;Homo sapiens

TABLE 2

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TTTGAGAAGACACTATGAATTAAATTCTACAGCTTTTTTTTGATATATGGAAATTTGTAG
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Sequence=1443;DNA;Homo sapiens

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Sequence=1444;DNA;Homo sapiens

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TTGGAGCAGNGATTTTTAAAAGTCTTTTCATTTGTAAAGAGTNGTTCTCCATGCTCCAAA
TGACTGNGACGACTGAGAAAATGCATGTATGTAAAGTCTGCANCTGGTGACATTGTACAC
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Sequence=1445;DNA;Homo sapiens

GCTGCCATCAGCTCCCTAGGAGCTCTCCCTCCAGGAAGGGAATGTGTCCACCGTCAGACA
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Sequence=1446;DNA;Homo sapiens

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TCTTCCGGCCACTGGAGTTAGGGTTTGAAACTCTGCAGCTGCCTATTGCACTTGTGAAAA
GGTTTGTATGTTCATCACTGCTGGCTGGCTCAGAGTTGGGAGTGAATCCTCCAAGGGATA
AGCTTGGAGAACTTTCTGAACAGTCAATCTGTAAAGGTGTCTGCAATCCCAAGGCCAATG
GACTAGATTCTGAAGGCTCTCGGTGGACCCACTGTTCCTCTCTGTTTATTAAGCTTTTTG
AAGGAGAGAGATGAGGGCAGGACATGTGACAACGGTGCTTTTCCTTATGCTTATATCGCT
CTCCAACAGCATCCTT

Sequence=1447;DNA;Homo sapiens

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Sequence=1448;DNA;Homo sapiens

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TABLE 2
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AGAGAAAGTTTTATCTTGGCATAGGACTTTTAAAACACAAGGTAATTTTTAATCAGTTTT
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Sequence=1454;DNA;Homo sapiens
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GCCTCTGTCCAGGAGGNANGGGCCCAGCTCGATGATGCCATGGGTCAGTTTGCTCAGCTC
CCAGTATAGCTGCTCTCTGTCCAGTCCAGGGTTTAGAGGGTCAAGGCGGTGAGTGCAGAT
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TABLE 2

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TTCAGTTTTTGCTGATATTTATGTGATTCTTTGTTCTGCAATTCAAATTTCTGGGAGCCA
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TTATTT

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AAAAAAAAAAAGGGCCCCCCCGGGGGGGGGGGGNANTTTTANAAANTTTTTTTTTCCCCC
CCCC

Sequence=1457;DNA;Homo sapiens

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Sequence=1458;DNA;Homo sapiens

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GAAGTCCTAAAGCCAGGAATGAGGAAGGCTGTGAATGTNCATTGTTCCATGCAAGAATGA
CTCTGGNGNGGGCTATTTAGAGATCATGAGGGATACTGCCCCAGTTTCCACAGGCCAGAT
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CACCGCCCAGGGGGTCCTGGAGAGGACAGTATAGGACCAAAGAGGAT

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CCCGAACGATGAGACACCATGACGCCCCAACCATTGGCCTGGGCCAGCTTGCACGCCTGA
AGAGACTCGGTCACCGGAGCCATTCTGGNTTGACTTTTTAGCAAGAAGGNANTTNAAGGA
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ATAANNTTTTTNGTGAANAANGGANTTTTTTNANAAAANCCCCCTGGGGTNTNTNTTTTN
NNNAAAAANATTTTTTNTCTTCNCNGGGGGGGNCNNTTTTATAAAAAAAANGANNANACC
CCCCCNCCGTGGNGGAGAAAATTNTTTTANATTATTTTTTTTCNTCCCCCCCCCGGGCCT
TGGGGGGGGGGGCCCCCCANCCCTTTTTTTTTTTTTTT

Sequence=1460;DNA;Homo sapiens

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGTTAA
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CATGTTCTTTTGCTGTTTTGTGCTTTGCCGATTTTGGATTTTATTTTTCACAAAATTTTT
ATTTAAAAAACTCGTCACCTTTTGGAAATGCCCATTGCCGACTTGAATTTTTTTGTATGA
AGTCCCTCCTGATTTTGTGTGTGTGTGTCTGTGTTTAAGCAAGCGTTCGGTTGGTATAGN
TTTTTTTTGTTTTTTTTAATTTAAATTGAAGGTAGCTGCCTCCTGAAAGCCAGCATTAAGC
CAGAACACCCAGNTTCAAGCAAAAGACCCACCTCTCTGCAGAGGCAAAGTCTACTTTCTG
GTACCT

Sequence=1461;DNA;Homo sapiens

TABLE 2

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CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTAGTAGAGACGGGGTT
TCACCATGTTTGCCAGGCTGGTCTCGAACCCCTGGCCTCAAGTGATCCACCCGCCGCAGA
CTCCCAGAGTGCTGGGATTTCAGGTGTGAGCCACTATGCCCGGCCTAATACGTGGATTTT
TAAAGCTTCAGGTTCTGGTTCAGAAGTTTCCTGGGTCTCATTAAAATAATGAGGCACTCA
GAATTGGTCTAATAAAAATAACGACCATTTCTTTCTACTTCAGCTNTTTCACAAACTTTT
TTAATGAAAATGACAAGNGAGGNCCTTCAGTAGGGGCATTTTCAGGGGANAAAAATAGCG
GGNAGACCTGAAACCTGGGNTAGGNAGTTTNTTTTTATTTTTTGAACAAGAAGANNAATT
TTTTCANAAGACCCTAAAAAATTNTTTTCCCAAAAACAAAAGNGNTTTNTTTTTNTTTNG
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Sequence=1462;DNA;Homo sapiens
CACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCCGGCCGCCCGGGCAGGTACGCGG
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CTGCTGCTCCTTCTAGTGTGGGTGGCTGTAGTAGGGGAGGCTCAGACAAGGATTGCATGG
GCCAGGACTGAGCTTNTNAATGTNTGCATGACCCCCAAGCCCCACANGGAAAACCCCGCC
CCCGNGGACAATTTGTTTTNACCANGTTTCCCCCNTTGGNNNNAAAAAATTCCTTTTTTT
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CCCCCCCCCCCCCCGGGGGNGGGGNGGNCNCCCCNCTTTTTNNNAANNANTTTTTTTTTNT
TNNAAAAANCCNCNNNTTTTTTANAANGGGGNTCCCCCNNAATNTNGGGGCCCNTTATCC
CCNGGGGGNTAAAANAAANTNTTNNCCAAAAAGGGGGGNCCCCCTCCCCCTTTTTNAAAA
NAGGGGGCCCCCCCCGNGGGGGGNNGNGAANTNATAAAANTTTTTTTTCNCCCCCCC
Sequence=1463;DNA;Homo sapiens
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AAACTCACTGAAAAATAAGCTAACTTCATTTCACCTTTNGTAGCATACACGTAGACTCAG
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AAAATNTNNNCNNCTNAAAAAAAAAAAAAAAAAAAAAAAAAANNNGGGGGGGGGGGNNNNG
GGTTTTTTTTTNATNNTAAAAAAAAAAATNNGGGGGGGGGGGGGGGGGGGGGTTTTTTN
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CNTCTTNTTTATAAAANAAAAAAA
Sequence=1464;DNA;Homo sapiens
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ACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCCAGC
CTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCC
ACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACA
AGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACCATATTCC
CAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGAGGAT
GCGCTCAACCAACTCTTCGAAACAGC
Sequence=1465;DNA;Homo sapiens
CCGGGCAGGTACTCTTGACAAAGCCTCCCCAACAAGGTGAAATCACTCTCGGCTCACCAC
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GGCCCTTCCAGTCACCCGTTGCCTTGGCAATGTCATCACCAACTTTTTTTGGAGACAGAC
CCAGGGGGCCCGATCTTGGGGGCCAGGGCAGAAGTTGGCACCGACTTTNCCTTCCGGGNN
CCCCTAAGGTTAAAANACTTTTNTTTTTTTGGGGGNNNAAAANTTTCGGGCNNTTGGGGG
GGGGCCCTTTNNNTTTTTAAANNAAACCCCCNNTTTTNGGGAAAAACCCNAAAGAAAAGTN
CCCCCTTGGGCCCCCCCCCNNCCCAAAAGGCCGNNAAAAACCCCCGGTTTTTTNGGNGTT
TTTTAAAAAAAAAGGAAANCCCCCCGCNNCGGGAAAANTTTNTNANAANTTTTTTTCCCC
CCCCCCCCNCGGGGGGGGGGCCCGGCCNCNNTTTTTTTTTTTTTTTTT
Sequence=1466;DNA;Homo sapiens
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGGTGGTAA
ATGCTTAACTCCACCTATATAAAAATCAAAAACAGGCAAAATGAATCATCAGACTACAGC
TTACCTTTAGGGGGTGTGAGTAGTGACTAACAGGGGTCAAGATGAAGGTTTAAGGATGTC

TABLE 2

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GCCAGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGCGGAT
CACTGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCTGTCTCTACTAA
AAATACAAAAAATTAGCCGGGCGTGGNGGTAGGCGTCTGTNGTCCCAGCTACTCGGGAGG
CTGAGGCAGGAGAATGACGTGAACCCAGNAGGTGGAACTTGCAGTGAGCCGA

Sequence=1467;DNA;Homo sapiens

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GTTTTCCGTCTTCACATCAAAGCATTTCATGCCCGTCAGCAACTTTTTAATGCATTTGCT
CCTCGTTTGCACAATTTCCATTTAAAGACTTTCCTTGGCTGACTTCTCTGATGAGGTTTC
CTGCTTGCCAGGAGAGCACGCTAATGCAGAAATTACAAAGGGGGCTTCACGTCCCTTTTC
CGGAGGACCTGATATTTCAGATAATTTCCAGCTTCAGTTTTGGAGAAACGACTGTTCTTT
GCACCAGGGGAAAATAAACTGATTTTCAGTGTAAGCAACCTTTCTGCAAGTAGAATGGGG
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Sequence=1468;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTG
GTTAGGTTAACAGAAACAATGGGGTTATTTCCGGTAGTGGCAACAGCACGAACTAGTTTT
CTTGTGGACTAATGGCCCGAGAGTTCCTGCGATTTGTGGATTATTTCCCTTAGATGCAAT
CGACCATTTCGTTCCAATAAGAATTAATGCTACCACGGGGCTTACAAAGAACCCCTCAAG
TCTTCCAAATCTGCCCATGACATCAACCTNTGCTGCGTAATCGGACCTGCACCCAACCCA
GGTTT

Sequence=1469;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACGCGGGAGAACAGCTCAGAAGGAGACCCACAGTGAGCAGC
TCCCCTGTGTCGGCGGGCAGGTCGTCCCTCAAGTGTTCAGCTCTCAGCAGAGAAAAGGCC
CTGGAGAGGGTGACTCCTCTCAGCTCTCAGCAGAGAAGCAGCCCTGGAGAAGGTAGCTTC
TGTTCGCAGGCAGATTGTCCAGAGGTCCTGCTGCTCTCAGACGGGGCCCTGGAGAGGATA
GCTTCTATCCATAGGCAGG

Sequence=1470;DNA;Homo sapiens

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAGCA
GTGGAAGCTGCAGAGGGCCGAAACAAAAATGAAGTTTTCTACCAATGTCCAGACCAAATG
GCTCGAAATCCAGCTGCTATTGACATGTTTATTATAGGTGCTACTTTTACTGACTGGTTT
ACCTCTTATGTCAAAAATGTTGTATCAGGTGGCTTCCCCATCATCAGAGACCAAATTTTC
AGATATGTTCACGATCCAGAATGTGTAGCAACAACTGGG

Sequence=1471;DNA;Homo sapiens

CTCCCGCGGTGGCGGCCGCCGGGCNGGACTTTTTTTTTTTTTTTTTTTTTTTTAAAGAT
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TTCTGGAGGGAAAGAAAACAGTTCATATACAGNGAATCAGGAATTACAATTGCATCAGAC
TTATCAACAGCATCGGGAAGATAATGNGAAAATACCTTCAAAACTCTNGAGGGACACAAG
AAGATGCTGCCTGGCCACAGGAGCGAGACTGCTGGCCTCCAATCAGTCTTNTGGGCAGGC
CTNTGATGCAATTACAGGGCTAAGGAACCACGGTAACCAATGTGCCATTGGCTGTGCTAA
AACCCAGNGGCCCCAGGAAGAATCCTGTTGACACTGGCTTGGAACATGAGGCTTAA

Sequence=1472;DNA;Homo sapiens

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CAGACATGGTGATAGAGAAATACAGATTAAGAAACCAGATCAAATCCTTTTTAAGGAATT
ATNTAGNGGAAAATATNTCAACTNTNTTNTTTACNCTACTATTCATTATCTTACACTTCA
AATCTTCACCTTTCCATTTTGACNGNCGCTNTTTTACTTCAGNNTCCTGAAAACATNTTT
CCAACAGAAGTTACATAAAAATNCTAATCTTCAAGGGGCTTTCTAAAATATTTTNATCAC
GTCATTAAAATCTTCTTTCACTAGGCAANGGTTNTGTCTTTATGGGGGCTG

Sequence=1473;DNA;Homo sapiens

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ACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACC
ATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATAT
TGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTTTTCTGACTG
TCAAGTTTCAACATTCAGGTCTGTCCCAACAGGCACCACACCCGGGGGTGGACTCCCTGT
GTAACTTCTCGCCACTGGCTCGGAGAGTAGACAGAGTTGCCATCTATGAGGGAATTTCTG

TABLE 2

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CGGATGACCGGAAATGGGTACCTCGGCCGCTCTANAACTAGGTGGGATCCCCCCGGGCTG
NAAGGAATTTCGATATCNAGCTTATCGATACCCGTCCGACCCTCGAGGGGGGGGGCCCGG
GTCCCAGCTTTTTGGTCC

Sequence=1474;DNA;Homo sapiens

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AAACAAGAACCGGGAGGCCCCGGGGGAGNCCANAAAAAANGGCGGCANAAAAGNCCCNGG
GGGGGGGGGGGCCCCNAAAAAAGGAGGGNGGGANGCCAAAAACCAGCNACNAANCAAAAN
GCGGCCCGGGGGGGCCGCCCCCAACCNGGGCCCCAGCCTTAAAGNCCCAAGAANCCGCGG
GGAAAAAACCCCNGGGNCCGGGGGGCCCCAAGCCCNGGGCCAANNAAAAAANGGGAAAAA
NNCGGGGCCCCCAACCCGCCCGCCCGNGNGGGGAAAAGGAAGGGGGGCCGGGNNCNCCGC
CCGGNAANNCCGGGGGGGCCGGCCCNCCGGNGCCCCGCCNNNCCCCNNCGGCGGGCNAAC
CNGGGAACCNGCCGGCCNGGCCGGCCCNCCCGGGGGGNCCCGGNNNACCGGGANGNGGNC
CGGGCCGAAGGCCGGGGNANGCAAGCCGNCNAACCNCCAAAAAAGGGGC

Sequence=1475;DNA;Homo sapiens

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ATCTTCTGATGGCTATCTTGTCGAATAGCACAATTCTAGGAAGTTCAAAAGGGGGAACAA
TTGCTTCTCAAATTGATGAAGGTAGAGAAGAATGGTATCAGAGAAACTGATTAAGCAGGG
ACCTGGGAATCTGAGTTGAGTTCCGGGGCATGTTTGTTCCCTAGCACCATGACCTACATG
GCAGTGTCTCTTCTCATACTATTNTAAGAGTCCCTGG

Sequence=1476;DNA;Homo sapiens

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TGGACTGCATAAAGATTGGTATGGCCTTAGCTCTTAGCCAAACACCTTCCTGACACCATG
AGGGCCAGCAGCTTCTTGATCGTGGTGGTGTTCCTCATCGCTGGGATGCTGGTTCTAGAG
GCAGCTGTCACGGGAGTTCCTGTTAAAGGTCAAGACCCTGTCAAAGGCCGTGCTCCATTC
AATGGACAAGATCGAGCGGCCGCGGGCAGGTACTTCATGAGACAAAATGGAAAAAGGAGA
ATTAAATTAAAATGCACAACTAATATTTATCTACTACAGACATAATATTTCTCAGTTGTG
AACTAATTACTATGCTTGGAAAATGCTAGCATCCTCATAAATATTTTGGTTCTATTGGGA
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Sequence=1477;DNA;Homo sapiens

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CAGCCACAGCTATTGGATTTCCCACCCAGAATCTTTAGGTAAATGAGGTAAGTCCTGATT
TTTAAAACTTCTTTTGAATCTGGAATCCAAACACCTGAGTGGAAAGAGAAGCCTGCTTTA
AACTGGACAGATGAAACTAGAACAGACTCTTGGAGACGGCTGGCAGGAAGTGAAGCTCAC
CTTACCTGGGCTTACCTCACTGGGTCAAATCAGAATTTTATTTTGGAGGGCAGGTTGGCT
ACTTTGGATATTATCTGNGAATTTCCTGCATTGGCTGGACTTCTAATCTCTGNGAATTTA
AAAGCC

Sequence=1478;DNA;Homo sapiens

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ACTATGGACAAAATTNGATCAGAAAGAAGATTGATTATTTCCTCATCTTTTTTTCTTTTT
TTTGAGACAGAGTCTCTCTNTGTCCCCCAGGCTGAAGTGCAGCGGCATGATCTCAGCTCA
CTGCAACCTCTGCCTCCCGGGTTCAAGTGATTCTCCTGCCTCAGCCTTCTGAGTAGCTGG
GATTACAGGCGCCGTGCCANCATGCCCGC

Sequence=1479;DNA;Homo sapiens

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NATTNCCATTNGGCCCAAGGCTTGTTAGGAAAGTAAAAAAAGCCCCCNATTGGCNGGNGG
GNNNGGCTTAGGCAAAACCCCTANTACTTTGCANGGGGCCCTCNAAAAAGCCCGNGGGCC
CNAAAAAGNCCTTAAANCCNCCNTGNAANAGGGCCCCTTNAAAAAAAAACCCCCCNNNNN
NAAATTTTGNGGCCCCCCCCCGGGGGGGGGGGGGGGGGGGGGGNGGCCCCCCCCCCCNTT
TNTNNAACCNCCCNCCCCCCCCCCCNNAAANGGGGGGGCCCCCCCNAAAAAAAAAANGGGG
GGGGGGGNNNGGCCCCCCCCCCCCCCCNAAAAAAAAAAAAAANGGGGGGGNGGGGNTTTTT

TABLE 2
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TTTTTNCNCCCCCCCCNCCNNNCNNNNNNNNNGGGGGGG
Sequence=1480;DNA;Homo sapiens
CCGGGCNTGGACTTTTTTTTTTTTTTTTTTTTTNCTTGCTTTTGGTTTTTTCCTTCGATA
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GTTGGTATTTCTGGAGCTGCTATCATTTCTTTATCATCTTCTGGAACACCTCAATGTCAG
AAATATATTCATATATTTACGTGGGTAAAATGGNGGCTTGCCTTCTTTCTTCTAAGACAA
TTCCTCACGGNGGGCCAAGCGCCCTCCGGGTGCCCCTCCAAACTTNTAGAAGCTTCGCCT
CCGCCATTTTATAACTTACCTCCCCGCGTACCTN
Sequence=1481;DNA;Homo sapiens
CCGCGGTGGCGGCCGAGGTACATCACCCTGCTGAGGGACATCCAGGACAAGGTCACCACA
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ATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCCAGCCTG
GTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCCACC
TACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAACCAACAAGC
AGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACCATATTCCCAG
GACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGAGGATGCG
CTCAACCAACTCTTCCGAAACAGC
Sequence=1482;DNA;Homo sapiens
CCGCGGTGGCGGCCGCCCGGGCAGGTACATCACCCTGCTGAGGGACATCCAGGACAAGGT
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CTTGACGATGGACTCCGTGTCGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCC
CAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGG
CTCCACCTACCAGTTGGTGGACATCCATGTGGCAGAAATGGAGTCATCAGTTTATCAACC
AACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACCATA
TTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGA
GGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATCAAGAGT
Sequence=1483;DNA;Homo sapiens
TACTATAGGGCGAATTGGANCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
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TTTCTTCAGCCTGGACAATAGAAACAGACAGGGGAGGGGGGTAAAGTGCANTAAAGTAGG
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CCCTTTGTTCTTTGGAGCACTGGAAGGGCTGAGCTGCATCTGAGGTGTTCAAGCCACCAA
CAGGACAGGGTAGAGGACTAAGTAGCACATGTCCTCCAGAGCAGCTTCCTGTCTTTGTGT
GGTCACATCACATCGGGGGAA
Sequence=1484;DNA;Homo sapiens
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GGACTCTAAGAACATATTTTAAATCAGTGCTTCCATACAGGAACGAAATCCACTATTTTA
GAATTCTAAATCTTGTTGAAAAGCAACCTTATCTGAAGAGTAAACAAGAAGATTCAAAGT
TAAGTATCAGTGCAGTCCAGAGCCCCTAAATGAATAAAACTGAATGTATCTTAAAAATAG
GATTTGCACACCAGTAAGAGACTTGTTTACGATTCTGGGGAGGAGGGAAGAAACTGTAAG
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AAGGTTTGTTTAGCTCAAAG
Sequence=1485;DNA;Homo sapiens
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TGTATCAGTGGAAATTAAATAGTCTTTACATTTGATGAACCCTGTTTAGGTGTTGGAAAT
ACCCATCTATTTGTTAAAAAGGCAAGGTCCCATGATTTAGTGAATGGGGGATACAGACAG
CCTTTATTCAAGTAACTGAATAAACAAAAGAATTAGAGAGTGTGATGAGTTTGAATAAAA
AATATAGNTCATAAAAACCAGAAATGTGATAGAGCATAGTGGCTGGAAGAAAGTTACCCA
AGTGGCTTGGGTAGTCAATGAAGTTGACTCCAACATGCAGTAGTACGCCGGGTCCTAAGA
TAGAGATTAAGTCATGGTTTAAATGAGGAACAATCAGTAA
Sequence=1486;DNA;Homo sapiens
CCGCGGTGGCGGCCGCCCGGGCAGGGTACACCACTGTGCCTGCTTTGAATCCTTTACGAA

TABLE 2

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GAGAAAAAAAAATTAAAGAAAGCCTTTAGATTTATCCAATGTTTACTACTGGGATTGCTT
AAAGTGAGGCCCCTCCAACACCAGGGGGTTAATTCCTGTGATTGTGAAAGGGGCTACTTC
CAAGGCATCTTCATGCAGGCAGCCCTTTG

Sequence=1487;DNA;Homo sapiens

GAGCNCCCCGCGGTGGCGGCCGNTGTACTTTTTTTTTTTTTTTTTTGCTTNTTAATTGGA
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CAATGTCAATACATTAAGACTGAGCGTGCTGGAGCAGCAGCCAGGGTTCAGGGCACTGCT
GTGTCATCTGCGCCACGGTGCACAAAGGCAGNTTCAAAAGCATTTCAGCATGATCGCTTC
CCTCTCTCCGCTCCTGGGGAGAGAAGGATCCTGCACACCACAGGCAAATCATGCTGAAAT
TGAGGNGGNGCCTTTGGGACTCCCATCCCATCACAGTCTTGGGAT

Sequence=1488;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTGGATATTGGTTGAACA
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GGAATAACACTGTCTTTCCACAGGTCACAGACTGGGATGAGCAACGGGCTGAAGGCACGT
TTCCCGGGAAGATCTGAACTGGCTGCATCTCCCTTTCCTCTGTCCTCCATCCTTCTCCCA
AGATGGTGAAGGGGGACCTGGTNCTG

Sequence=1489;DNA;Homo sapiens

AGGTACGCGGGATGGCACATANGACATCAGCTAGGCTTTTGGGAATCGTTTGTGTTCTTT
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CAGGCTCTGCCTTCACATGTGAGACGGTGGACTTTTCCTNTGGACAAAATGACAGCATNC
TGGCGACTCCACAGTGGAGCTGAGCGCCACTCCCTGTAGCCCGATCTGGGACTGAAACGC
TTACACCTCTGCCTTAGAAGGAGTCCCCCNTGCC

Sequence=1490;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGGTACGCGGGGGAATTAGTCCGAGTGGAGAGAGCGA
GCTGAGTGGTTGTGTGGTCGCGTCTCGGAAACCGGGTAGGCGCTTGCAGCATGGCTGACC
AACCTGACTGAAAGAGCAGATTTGCAGAATTTCAAAGAAAGCTTTTTTTTCACTATTTTGA
CAAAAGATGGGTGGATGNGAACTATTAACCAACCAAAGGGAATTTGGGGAACCTGTAATG
AGGATCTTTTTGGGCCAGAATCCCCACAAGAAAGCAAGAAGTTTACCAGGGAACATTGAT
TTAATGGAAAGTAAGAATGCCTTGATTGGTTAAATTGGCACCAATTTGGACTTTCCCTTG
AATTTTCTTGACAAATGGATGGGCCAAGGAAAAAATTGGAAANGACCCCAGNACCNGTTG
GAAGGAAAGGAAAA

Sequence=1491;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACGCGGGTGTTCCTTTTTGTTCAAAGTCTATTTTTATTCCT
TGATATTTTTCTTTTTTTTTTTTTTTTGNGGATGGGGACTTGTGAATTTTTCTAAAGGTG
CTATTTAACATGGGAGGAGAGCGTGTGCGGNTNCANCCCAACCCGCTGCTNACTTTTCAN
CCNNTTTTCACCNGNCTNTGGGTTTTTAANACCCTNGGNTTTNTACCCCNNTCCTTTGNA
AANCCCTNNNCCNAANNGNGGGGCAAANANCCNGNGGGCCCNCTANAAAANANCTTGCGG
CCCCTGTCCCCCGGGGTTTTGAGGACAANTTTNCCCAAAGCNNAAAAANAGANGTTTTTT
CNCCNTCNNCTCCTGGNGGGGGGGGGGNGAAAAAAAAAAAAAAAAANTTTTTTTTTCCCN
GNNNNGGGGNGGNNNCTTNAAAAAAAAAAAANAATGTCCCCCCCCCCCCGNNNNGTGGGCG
NNAATTTTTNTTAANAATATTTTTNNCCCCCCCCCCCCCCCCCGGGGGGGG

Sequence=1492;DNA;Homo sapiens

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AAATTCCTCATAGATGGCAACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTACACAG
GGAGTCCACCCCGGTGTGGTGCCTGTTGGGGACAGACCTGAATGTTGAAACTTGACAGTC
AGAAAAATAACTCTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGCGCATCCTCAATATT
CCTTTTGTTCCTCTGGTAATTGGTGGTGCCTGGCTGGGCTTTGTCCTGGGAATATGGTAG
GTTGGTGATGGTGAAATTCAGGTAGAAGTGCTGGGTGCTGGAGCTGCTTGTTGGTTGATA
AACTGATGACTCCATTTCTGTCACATGGATGTCCACCAACTGGTAGGTGGAGCCCAGCCA
ATGGGAATGAGGCATTCAGGGTCTTATCTAGAAAGACTTGCTCCACCAGGCTGGGGTCCA
AATTGGAG

Sequence=1493;DNA;Homo sapiens

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCAGAAGGTCCCGGCAGCACGCACGGA
AGAAGACGGACCCCGCGATGAGGGCGGCGGCAAGGAGCACCTTCATGTTGCGTTCGGAGA
GGCGCAGCATCCACAGGCCCCGCGTACAGACTGGTTTGGTAAATGCTAAACTTTTGTGTC

TABLE 2

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TTTTGCCTTTTTAAAGGAATTGTTAACATTGGAATTGAGGGTATGTACCT
Sequence=1494;DNA;Homo sapiens
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TCTTGGGATCTCAGATGGGAATTCACGCTGCTTGCTGCAGAGCTCTTGGGCTAAGTGTAT
TTTCTTAATTACTGAGAAATGCGTGTTATCAGTAAGCAGTGAAAAGTCTTGAAAAAACTA
AGTAATTTTAAAAAAAAAAAAAAAAAAAAAAAANGTCCTGCCCG
Sequence=1495;DNA;Homo sapiens
NCGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTT
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GACTTTCTTTCCTTGTCTAGGACCAGTTGAAGCTCATTATTAACCTGCTGCAGCTCCTCA
CCATTCTCCTCATCGGNGCCTCCATTTACACGAGCAGGGCGTGCCTGCTGCTCACTGTGA
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GTTACAGGTTTCACATGATTTATTCGCAAAAAAAAAAAAAAAAAAAAGTACTGTCTGTGA
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Sequence=1503;DNA;Homo sapiens

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Sequence=1507;DNA;Homo sapiens

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TABLE 2

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GCCGGGGTCTATATTCTCGATCAGGTTGNTAATTTTCCCATGGGTTTTTTGACTGATAAA
GNCATTGATCTGCTTCTGAGCCATTTCCAAATTCTGAAAGTTGGTAAGGATGGTTTCGGN
ACTGTAAAAGTTCTTGGCATCTTCC

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Sequence=1533;DNA;Homo sapiens
CGCGTCCNGGNCGGAGAAGACAGTAGGGATACTGGATATGGGAGGAGCCTCTCTCCAAAT
TGCTTATGAAGTTCCTACCTCAACCTCTGTCCTTCCTGCAAAGCAGGAAGAAGCTGCCAA
GATCCTGCTGGCTGAGTTCAACCTGGGCTGTGATGTGCAACACACTGAACACGTGTACAG
GGTTTATGTCACAACTTTTCTGGGTTTCGGAGGCAACTTTGCCCGGCAGCGCTACGAAGA
CCTTGTTCTGAATGAAACTCTTAACAAAAACAGATTGCTTGGTCAGAAGACAGGTCTGAG
TCCCGACAATCCATTTCTGGATCCCTGCCTGCCAGTGGGACTCACAGATGTGGT
Sequence=1534;DNA;Homo sapiens
CGCCGTCCNGTTTACTTGGAGTGTCCAAAACTGCAAGCAGTAGAGAAATAAGACAAGCTT
TCAAGANNNTGGCATTGAAGTTACATCCTGATAAAAACCCGAATAACCCAAATGCACATG
GCGATTTTTTAAAAATAAATAGAGCATATGAAGTACTCAAAGATGAAGATCTACGGAAAA
AGTATGACAAATATGGAGAAAAGGGACTTGAGGATAATCAAGGTGGCCNGTATGAAAGCT
GGAACTATTATCGTTATGATTTTGGTATTTATGATGATGATCCTGAAATCATAACATTGG
AAAGAAGAGAATTTGATGCTGCTGTTAATTCTGGAGAACTGTGGTTTGTAAATTTTTAC
Sequence=1535;DNA;Homo sapiens
GAGGCGCTCAACCTACCGAGGCGCCCACAACCTGTCCGGCCTGCTGGGCTTGTCCCTGCG
CTACAACAGCCTCTCGGAGCTGCGCGCCGGCCAGTTCACGGGGTTAATGCAGCTCACGTG
GCTCTATCTGGATCACAATCACATCTGCTCCGTGCAGGGGGACGCCTTTCAGAAACTGCG
CCGAGTTAAGGAACTCACGCTGAGTTCCAACCAGATCACCCAACTGCCCAACACCACCTT
CCGGCCCATGCCCAACCTGCGCAGCGTGGACCTCTCGTACAACAAGCTGCAGGCGCTCGC
GCCCGACCTCTTCCACGGGCTGCGGAAGCTCACCACGCTGCATATGCGGGCCAACGCCAT
CCAGTTTGTGCCCGTGCGCATCTTCCAGGACTGCCGCAGCCTTCAAGTTTCTCGACATCG
GATACAATCAAGC
Sequence=1536;DNA;Homo sapiens
GACCACGCGTCCGCGCACCGCTTCATTGAGGCTGCAAGAGCACACGGGCACCCACGTGCT
GGTCCACTGCAAGATGGGCGTCAGCCGCTCAGCGGCCACAGTGCTGGCCTATGCCATGAA
GCAGTACGAATGCAGCCTGGAGCAGGCCCTGCGCCACGTGCAGGAGCTCCGGCCCATCGC
CCGCCCCAACCCTGGCTTCCTGCGCCAGCTGCAGATCTACCAGGGCATCCTGACGGCCAG
CCGCCAGAGCCATGTCTGGGAGCAGAAAGTGGGTGGGGGTCTCCCCAGAGGAGCACCCAG
CCCCTGAAGTCTCTACACCATTCCCACCTCTTCCGCCAGAACCTGAGGG
Sequence=1537;DNA;Homo sapiens
CTACACTCAACTTCACCATCTCCAATCTCCAGTATTCACCAGATATGGGCAAGGGCTCAG
CTACATTCAACTCCACCGAGGGGGTCCTTCAGCACCTGCTCAGACCCTTGTTCCAGAAGA
GCAGCATGGGCCCCTTCTACTTGGGTTGCCAACTGATCTCCCTCAGGCCTGAGAAGGATG
GGGCAGCCACTGGTGTGGACACCACCTGCACCTACCACCCTGACCCTGTGGGCCCCGGGC
TGGACATACAGCAGCTTTACTGGGAGCTGAGTCAGCTGACCCATGGTGTCACCCAACTGG
GCTTCTATGTCCTGGACAGGGATAGCCTCTTCATCAATGGCTATGCACCCCAGAATTTAT
CAATCCGGGGCGAGTACCAGATAAATTTCCACATTGTCAACTGGAACCTCAGTAATCCAG
ACCCCACATNCTCAGAGTACATCACCCTGCTGAGGGACATCCAGGACAAGGTCACCACAC
TTTTACAAAGGCAGTCAAACTACATGACACATTCCGCTTCTGCCTGGTCACCAACTTGAC
GATGGACTTCCGTGTTGGTCACTGTCAANGCATTGGTCTTCTTCAATTTG
Sequence=1538;DNA;Homo sapiens
GCGGCCGCCGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATTGNNNTNCAAT
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TTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCTACCAAGA
CGATGATGTTTAGCCGGGCCGAGAGGCTGTACCT
Sequence=1539;DNA;Homo sapiens
CTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTAACCTACCTTTAAGACTGGGATNTCT
ATTGNTAACAATAGCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGG
AGCTTCACAGCTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATG
GCCTACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCTGTACCT
Sequence=1540;DNA;Homo sapiens
CTCCCCGCGGTGGCGGCCGAGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGT
AGGCCNTTNCCCTACCAACTAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGA
AGCTCCTTTCTATTACTCATCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTC

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CAATAGTTATCCCAGTCTTAAAGGTAGGTTAGGTACCTGCCCG
Sequence=1541;DNA;Homo sapiens
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTAACCTACCTTTAAGACTGGGATAACTA
TTGTTNAACAATNNCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGG
AGCTTCACAGCTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATG
GCCTACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCTGTACCTGCCCG
Sequence=1542;DNA;Homo sapiens
AGGTACAAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGNTAGGCCNTTACCCTACCAA
CTAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTC
ATCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCT
TAAAGGTAGGTTAGGTACCTGCCCG
Sequence=1543;DNA;Homo sapiens
CCGCGGTGGCGGCCGAGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTTTTNGGC
CATTACCCTACCAACTAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCT
CCTTTCTATTACTCATCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAAT
AGTTATCCCAGTCTTAAAGGTAGGTTAGGTACCTGCCCG
Sequence=1544;DNA;Homo sapiens
TCTTCGANCACGNTTCGGGCGGCTTTTCCCCGGGCAAGGCTTCTAAATCGGGGGGGCTTC
CTTTTAGGGGGTTCCGAATTTAAGTGGCNTATAACGGGCANCCTTCGAACCCCCAAAAAA
AACTTTG
Sequence=1545;DNA;Homo sapiens
AGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTNGGTAGGCCATTACCCTACCAAC
TAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCA
TCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTT
AAAGGTAGGTTAGGTACCTGCCCGG
Sequence=1546;DNA;Homo sapiens
CGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATTGGAAACAATAGCTAATAC
CGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAGCTTCACTTAAA
AATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGTT
TAGCCGGGCCGAGAGGCTGTACCTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTCGCNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCGCCCAACGT
GAACCGGTTACACTTTGCCAAGCGCCCTANCGCCCGGTCCTTTTCGCTTTTCTTTCCTTT
CCTTTTCTTCGGCCACGGTTCNNCCCGGCTTTTTCCCCGTCAAGGCTTNTAAATTCGGGG
GGCTTTCCTTTTAAGGGNTCCCGATTTAAGTGGCTTTANCNGGNAACCTTNGAACCCCCA
AAA
Sequence=1547;DNA;Homo sapiens
AGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAAC
TAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCA
TCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTT
AAAGGTAGGTTAGGTACCTGCCCGG
Sequence=1548;DNA;Homo sapiens
CGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATTGGAAACAATAGCTAATAC
CGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAGCTTCACTTAAA
AATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGTT
TAGCCGGGCCGAGAGGCTGTACCT
Sequence=1549;DNA;Homo sapiens
TACCNCGCGTCCGGGGCCCGGATGCTGGGGGCCACCAGGGCCCCGGGGATGTGCTGGTCT
TCATGGATGCCCACTGCGAGTGCCACCCAGGTTGGCTGGAGCCCCTCCTCAGCAGAATAG
CTGGTGACAGGAGCCGGGTGGTATCTCCGGTGATAGATGTGATTGACTGGAAGACTTTCC
GGTATTACCCCTCGAAGGACCTGCAGCGTGGGGTGTTGGACTGGAAGCTGGATTTCCATT
GGGAACCTTTGCCGGAGCATGTGAGGAAGGCCCTCCAGTCCCCAATAAGCCCCATCAGGA
GCCCTGTGGTGCCCGGAGAGGTGGTGGCCATGGACAGACATTACTTCCAAAACACTGGAG

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CGTATGACCCTCTTATGTCGCTGCGGGGTGGTGAAAACCTCGAACTGTCTTTCAAGGCCT
GGCTCTGCGGTGGCTCCGTTGAAATCCTTCCCTGCTCTCGGGTAGGGCACATCTACCGAA
ATCAGGATGCCCCGTCCCCGTTTGACCAGGAGGCCACCTTGAGGAACAAGGTTCGCATTG
CTGAAGACCTGGCTTGGGGTCA

Sequence=1550;DNA;Homo sapiens
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTGATATCCACATATTTTTGAG
AAAAATTCCCAAGCCAGGCGAATGTGGATTGGAATAAAGACATAGGCAGTGTATACCACC
ATAGCAATAATGGTTAGTAAGATGGTGTTAAACATAGATCGCTCCCAGGGCTCTAAAACA
GCACAGCAGCTAATGATTTGGTATTGATAGTAGAGCCAGGAGAAATATTCCTTCACACGC
CTCAAATCCATGGTTGGCTCCTTCAAGCTGCAGTAAGTTTGTCCTAAGAAAGTCCAGGTC
TGGTTCTTCAGCCTTGCTCCTTC

Sequence=1551;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTTGAATATCAATTTCTAAATATTTACCC
AAAAATGTATATTTAAAGTTTTTAACAACTTCTTTTCAATCTTGAAAAAGTTCCCTCATT
TTTTCTTTTAAAATCCCATTAACAATCAATGGTTCTTTTAAAATAGAATAAATATTTTTT
TGTCCATTTAAAGAAGAATATGGATCTTGGAAAATCATTTGAATATTTTTTCTTAAAAAT
AGATTTTGTTTTTTTTGTTAATTTGTTTCCAGAAATAACTTCATCTAATAAAGTAACTTGA
CCACCGTAAGATTCATATAATCTAATCAAAGATCTACCAACTGGTTGTTTTACCCTGGAT
CCAGATTCACCAATTAAACCTAAAATTTTTCCTTGTTGGATCTAAAATTTTACCGTTATC
AACAGCTTTGACAACCCAAANTTATTGGAAAAATATTTTTTTAAGCTTTGAACTTTTAAG
GGTGGGTTAACTTGCATTA

Sequence=1552;DNA;Homo sapiens
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGG
GTTTCCCTGCTATGTTTTGTCACACATCATTGCTGGGAGAGTTCAGTGCTATCCAAGTGA
CTCCCCGGGGAGAGGACAACTGGAAATTTATGCCTGGTGTCTTCCTGGACTCCGACCTAT
GCACCTTTTTTCCTTGGATGATTTTAACCTGTCTCCTTTTGCTGCAATGAACCATAACCAT
GAGTATATCAGCTTTTCTAATTTTTGTGAAGTCCCTCAAGTGAATTATCAAACCTAAGGG
TAGTTTTGGGGACCCCCATCACAGAAGAGGTCAAACAGGGGGCAGG

Sequence=1553;DNA;Homo sapiens
CCGCGGTGGCGGCCCGCCCGGGCAGGTCTCTTGTCTAGTATACTCAAGGCAGCCTAGTAA
ATTATTATTTATCTATACAATACTGGAAAAACTTGTAGACAAAAACATGACTTGAATTGC
TAAAAAAAAAAAAAAAAAAAGAGGGAGAATGAAAACTTCCGGACGCGTGGGTCGAAGCTT
GACCT

Sequence=1554;DNA;Homo sapiens
CCGCGGTGGCGGCCGCCCGGGCAGGTAGGCTGTCTACACTGACATCATCCAGGGCAAGCT
GGACCAGCGAAACCAGCTGCTGGAAGTGGATTTCTGCATTGGCCGTGACATCCGAAAGAA
GGATATCAATAATATTGTCAAGACCCTGCATGAATGGTGTGATGGCTGTGAAGCAGTTCT
ACTGGGCATNGAGCAGCAAGTTCTGAGAGCCAACCAGTACCTT

Sequence=1555;DNA;Homo sapiens
CCGCGGTGGCGGCCGCCCGGGCAGGTTTTTTTTTTTTTTTTCTTTCTGTTCCTTGGACTA
GATAATCTGAAATCAACTGTCTTCAGTTTTGCAGACTCTTGTGCCAGCTAAAATGTTCTG
TTGAGCCCCAGAAGCTAATTTTCTTTTCAGTTATTATGATTTTCAGCTTTAGAATTTATT
TTTTTAATATAATTTCTACCTCTTTTTTATATTCTCCATTTGGTGAGACATTCACATACT
TTCTTCCAGTTTTTTTTAGACGTAGTTTCCTTGAGTTCTTTGAGCATATTTAAAATAGTT
GATTTAAAGTATTTGTCTAGTTACTCCACCATCTGAGTTTCCTCAGGGAAAATTTCTATT
GCCTCCTTTTTTCCTGTGTGTGGTCGGNCCATACGGACGCGTGGGTCGAAGACCT

Sequence=1556;DNA;Homo sapiens
ACTTNNTNTTTTTTTTTTTTTTTTTTTTTAAGCGCCCGGCATTTTCTAAATAAAATCATTT
TATTTGGNAAAAGGGTTTTAACAGNTATACCTTTCTAGCTAAAAGAAAAGAAATAGCGGG
ATGTACCT

Sequence=1557;DNA;Homo sapiens
AGGTACGAAGAGAAAGGAATCAAAGCCTACTANCTCAAAAAATTGTCAAATTGCAAATGA
GGACATCTAGAGAGGAAGAAAGGAAAAAAGGAACTAAAAAACAGAAACAATTAACAGTAA
GTTCTTAACTATCAATAATTATTTTAAAAGTAAATAGATTAAATTATCTAATCAAAAGAC
ATTGAATGGCTGAATGGATTAAAAAACAAGATCAACTATACATTGCCCATCAGAGATTCA

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CCGGGCAGGTACCACNTGAAGACCCTCACACTCAACTTCACCATCTCCAATCTCCAGTAT
TCACCAGATATGGGCAAGGGCTCAGCTACATTCAACTCCACCGAGGGGGTCCTTCAGCAC
CTGCTCAGACCCTTGTTCCAGAAGAGCAGCATGGGCCCCTTCTACTTGGGTTGCCAACTG
ATCTCCCTCAGGCCTGAGAAGGATGGGGCAGCCACTGGTGTGGACACCACCTGCACCTAC
CACCCTGACCCTGTGGGCCCCGGGCTGGACATACAACAGCTTTACTGGGAGCTGAGTCAG
CTGACCCATGGTGTCACCCAACTGGGCTTCTATGTCCTGGACAGGGATAGCCTCTTCATC
AATGGCTATGCACCCCAGAATTTATCAATCCGGGGCGAGTACCT

Sequence=1565;DNA;Homo sapiens
CGGCCGCCCGGGCAGGAACNNNNTTTTTTGGGGGGGGGAAAACCNAGACGGAGCCNCGCN
CAANGGCCCAGGCGGGAGTGNAAGGGCACCAGGGGGGGCNCACCACAAANACCGCCGCCC
GGGNGAAAGCCACNCNCCGGCCNNAGCCNCCGGAGNAACGGGGGGAACAGGGGCAGGCCA
TNTTTTTTTTTTTGNGGGGGGNGNANGGGGNGGANNCNCCAGGNAAAAANCANGCNGGCCA
GGGGGGGGGGGAACNCCNGACCTNATGANGCACCCGCCNNGGNCNCCCAAAANGCGGGGA
NNANAGGGGNGAGCCACCGNGCCNAGCNGACGG

Sequence=1566;DNA;Homo sapiens
CGAGTTACCAGAAGGAGAGATCACCACCATCGAGATCCACCGCACTAACCCGTACATCCA
GTTAGGAATCAGCATCGTTGGCGGCAATGAGACGCCACTGATCAACATCGTNATTCAGGA
AGTNTACCGGGATGGGGCCATCGCCAGAGATGGAAGGCTCCTTGCCGGAGACCAGATTCT
TNAGGTCAACAACTGTGATATCATGCAACGTGTCCCATAACTACGCCCGGGCTGNCCTTT
CCCAGCCCTGCAGNACCCTGCACCTGACAGNGCTTCGGGAGCGGCNGCTTNGGCAGTCGT
GCAAA

Sequence=1567;DNA;Homo sapiens
CGAGCCTTTAGATGGCGTCTCCTCAGGGGGGCCAGATTGCGATCGCGATGAGGCTTNGGA
ACCAGCTCCAGTCAGTGTACAAGATGGACCCGCTACGGAACGAGGAGGAGGTTCGAGTGA
AGATCAAAGACTTGAATGAACACATTTGTTTGCTGCCTATGCGCCGGCTACTTNGNGGAT
GCCACCACCATCACAGAGTGTCTTCATACTTTCTGCAAGAGTTGTATTGTGAAGTACCTN
CAAACTAGCAAGTACTGCCCCATGTGCAACATTAAGATCCACGAGACACAGCCACTGCTC
AACCTNAAACTGGACCGGGTCATGCNGGACATCGTGTATAAGCTGGTGCCTGGCTT

Sequence=1568;DNA;Homo sapiens
GCGTCCGACGTCCCCCAGGAGAATGGTAGACACAGATGAGGAAATTGTGGAGATGGGCAC
AAACCGCAAGGTGAAGAAAACGAACAAACACCGAGTTGATACGGATAGTCCCCGTTCCCC
TGAGGGCCGACCCCGTGACTCCCGATGAGCGTCCAGTTGCGCCGGGCATCCCTGGGCCTC
CCAGCGTCTTTCCCGGAGGTTCATCGCCGCACGGCGGAAAGCGCTCTCGGTTCCGCTTTC
CGGCCCCAGCCTCCCGGGCGCCCTCGCGCGGCGGCTAACGCTGGTCCTCGGCCGGGCGCG
CTGACGTCATCGTGCGTCAGAGTGAGCCCGGATGGGGCGGCGGGCTTCGGGAGCGCCCGG
GCTGATCCGAGCCGAGCGGGCCGTATCTNCTTGTCGGCGCCGCTGATTCCCGGCTCTGCG
GAGGCCTCTAGGCAGCCGCGCAGCTTNCGTGTTTGCTGCGCCCGCACTGCGATTTACAAC
CCTGAAGAATCTTCCTATCCCTAT

Sequence=1569;DNA;Homo sapiens
CGCGTCCGGCGGCGGCGGCTGAGGAGGGCCCGGCCTGCGAGAGCCTCAGTGGGAGCCGGC
TCAGCCCTCGGCCACCATGTCGGCGCCGTCGGAGGAGGAGGAGTACTGCGCGGCTGGTGA
TGGAGGCGCAGCCGGAGTGGCTGCGCGCCNAGGTGAAGCGGNTGTCCCACGAGCTGGCCG
AGACCACNCGTGAGAAGATCCAGGCGGCCGAGTACGGGCTGGCGGTGCTCGAGGAGAAGC
ACCAGCTCAAGCTGCAGTTCGAGGAGCTCGAGGTGGACTATGAGGCTATCCGCAGCGAGA
TGGAGCANCTCAAGGAGGCCTTTGGACAAGCACACACAAACCACAAGAAGGTGG

Sequence=1570;DNA;Homo sapiens
CGCGTTCGAGTCTGGAGACGACGTTNCGAAATGGCACCTCGCAAAGGGGAACGGAAAAGA
AGGAATGAACAGGTCATCAGCCTTGGACCTCAGGTGGCTGAAGGAGAGAATGTATTTGGN
GTCTGCCACATCTTTGCATTCTTCAATGATACCTTTGTCCATGTTANTGAACTTTCTGGC
NAGTGAGTACTTCAGAAAGGCATNAAACANGCCTCAAAGGGAC

Sequence=1571;DNA;Homo sapiens
CCCCGCGTCCGCCCACGCGTCCGGGCTCGGCTGCACCGGGGGGATCGCGCCTGGCAGACC
CCAGACCGAGCAGAGGCGACCCAGCGCGCTCGGGAGAGGCTGCACCGCCGCGCCCCCGCC
TAGCCCTTCCGGATCCTGCGCGCANAAAAGTTTCATTTGCTGTATGCCATCCTCGAGAGC
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GCTGTGCGTAGCTGCTCCTTTGGTTGAATCCCCAGGCCCTTGTTGGGGCACAAGGTGGCA
GGATGTCTCAGTGGTACGAACTTCAGCAGCTTGACTCAAAATTCCTGGAGCAGGTTCACC
AGCTTTATGATGACAGTTTTCNCATGGAAATNNGACAGTACCTGGCACAGTGGTTAGAAA
AGC

Sequence=1572;DNA;Homo sapiens
GTTNAGTNGAAGTTCTCTACCATTGAATCAGTGAACTAGAAAGATCTGATTTGGCCTGGG
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CCTAGGAGATAAATGTAGAGGTATTGACTTTTCGTATCTTTTATCTTCACACTGAAACAA
GAGCTATCCTATTTGATTATTAAAGTGAGCTATGTGTTAAGTGCCAGGACATTTCTAGCT
TTTGTGAGAATGTGTCTACATATGAGTATAATAAACCCACATGTATACACAATTGTCTCT
TATGTACTCCTACCTGGCAGGAGTCTTTG

Sequence=1573;DNA;Homo sapiens
CGCGCCGGTGGTGCGATCTCGGCTACTGCAACTTCAGCCTCCTGGATTCAGGCAACACTC
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TATTTTTTGTAGAGATGGGGTTTCACCATGTTGGCTGGGCTGGTCTCACTCTCCTGACCT
CAAGCAATCTGCCTGTCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCC
CCCAGCCTGAGCCTTTTTTTTTTTCTAATGCATCCAAGGTTAAGGGGAAGACGCAAATAA
CAGGACTATTCTAAAAGGAAACCTGTTTGAACTCTGTGAGATCAAGTCATCAGTCTCAGT
ATTNCACAGGCACACCTTAATTTCATTGGTAAAAGATATATATATTTTGNCTATTTTTGN
GCTTTTGGGGGCCTATTTTGNGCTTTTTTACCTTTAATGNAAGAAGANCTTAATACCAAA
GTGGATTTTTTTACCA

Sequence=1574;DNA;Homo sapiens
TCGCCNCGCGTCCGTAGAAACTCACACTAGACACACGCAGTAGTCATACGTCTTCACACG
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TCTGGAGCTAACTGTGGAGCAGCCAAATAGTAGCTGGCATGTTGATTCAAACCATGGGCT
GAATTTGCTCATAGGCTGTGCATCAGACAAAAGCTTGAATATTTGTGTTGTATGCTTGTT
CCAACCACCGCTTGTGTGAGCATTTTTGTGGCTTGTACAGAAAGTACACTTTTAAATTGT
CTCTTGCATCACTAAAATTTTTTTAAAATGAGCATAACAACGAAAGGCATCCAGCTGACT
TTTTGATTCCAAGATTATTGATTGGATTGACTTTTTTGCATTAAATTTTTCCCAGCAAAA
TAAATCATATGGCGAGTCAGGGAATAAAAAAGTCAAAAAGGAAACAAATAGAAGCTTTTT
TTTTTTAAAAA

Sequence=1575;DNA;Homo sapiens
GGNCGAGCGCGCCTTGCGGGGGCGGTATCCCGGCGCCCTAAGACCCCACGACCNCNNGCA
CCGGCCGNTGCTGCNAGACCCCGGCCCGNGTCGGTCCGATGTCGCCCCCCGGNCCCGGCG
GAAACGCCTCCCTNCTGGCCAGGCTGTTCNAGCACCCGCTT

Sequence=1576;DNA;Homo sapiens
TCGCCACGCGTCCGTTNAGATGCAGAAATGAAAAAAAAACACCTTTGTTTTATAAATATC
AAAGTACATGCTTAAAGCCAAGTTTTTATCTAGTTTATTCTAGTACTTAGCTTGCCTGGA
ATAGCTAATAAATTATTCATGTATGTGCTTTTGAAAATCCAGAGCCCTATTTTTACACAC
TTGTGTGAAGTTGGCAAACATTTTGAAAAATGGAAAAAAGTTTCTAATAATTGGGAACAA
TTACATTAATTAATATTTTGTAAAATATTGAAGCTTTTAGCCCTATGTCAATTTGTAGAT
TAAAATAAATTAATTATAGGAAAGGAAGATAACAGTGAGAAACCAAACATTAC

Sequence=1577;DNA;Homo sapiens
CACGCGTCCGCCCACGCGTCCGGCGCGGCGGGAGCGGGCGGNGCGAGCGGGAGGCGGCGG
CTCACAACTGAAGCGCTGNGGCATGGNGCGCGCCTGCCTCCAGGCCGANNNGTACCTNAT
GTTCGCCTTCAACCTGCTNTTCTGGCTGGGAGGNNGTGTGNGGGCTGGNTGTCTGGCNTC
CTGGCTTGGGC

Sequence=1578;DNA;Homo sapiens
TCGCCACGCGTCCGGACCTGGATGTGAGGGTGAANGGGCTGTGCTGCTGGGAGCCACATT
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GTTAGAGGCCACCATGGTGTGAGGAGACCATCACCTCGACCAGAACTCCAGATGGTCACC
TGCCCTGGCCCCTCCTCTGGGCAGCCCCTTTCCTCCATGTACACTGCAGGGGACAGAAGG
GGGGCCCCATCCCTACCCTACTCCCTGGCCGCCTGCCCCTGTGGTTCCCAAGGAAGGGGG
TATTGTATTGAGAGCCGCTCTCCTGCTACCTCCCACCACTGTCCAACAGTCCCTCGGCAC
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Sequence=1579;DNA;Homo sapiens
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TGTCGCCGGCCCGGGGCGGCATCGGGGCGGGGCTGGGGGGCGGCCTGTGCCGCCGCTGCA
GCGCTGGGCTCGGCGCCCTGGCCCAGCGCCCTGGCAGCGTGTCCAAGTGGGTCCGACTCA
ACGTCGGCGGCACCTACTTCCTCACCACTCGGCAGACCCTGTGCCGGGACCCGAAATCCT
TCCTGTACCGCTTATGCCAGGCCGATCCCGACCTGGACTCAGACAAGGATGAAACAGGCG
CCTATTTAATCGACAGAGACCCCACCTACTTTGGGCCTGTGCTGAACTACCTGAGACACG
GCAAGCTGGTGATTAACAAAGACCTCNCGGAGGAAGGG
Sequence=1580;DNA;Homo sapiens
GTCGCCCCGCGTCCGGGGCCCGCGGGCCTCGCCTCCGCCCTCCGCCACCTCGAGCTGCGG
TAGCAGCGACTCATGAGAGCGCGGCCGGAGGACAGATTTGATAATGGGCTGCATTAAAAG
TAAAGAAAACAAAAGTCCAGCCATTAAATACAGACCTGAAAATACTCCAGAGCCTGTCAG
TACAAGTGTGAGCCATTATGGAGCAGAACCCACTACAGTGTCACCATGTCCGTCATCTTC
AGCAAAGGGAACAGCAGTTAATTTCAGCAGTCTTTCCATGACACCATTTGGAGGATCCTC
AGGGGTAACGCCTTTTGGGAGGTGCATCTTCCTCATTTTCAGTGGTGCCAAGTTCATATC
CTGCTGGTTTAACAGGGNGGNGGTACTATATTTTGNGGCCTTATATGATTATGAAGCTAG
AACTCCAGAAAGACCTTTCATTTAAGAAGGGTGAAAGATTTCAAATAATTAACAATACNG
AAGGAGATTGGTGG
Sequence=1581;DNA;Homo sapiens
TTCGGGAGTCGCCCCGCGTCCGCTTTTAGAAAAGGCCAATATACCTATCACACTTTGGAA
GTAAAAATACACACTTTCGTGTGTACCTAAAAAAAAAAATCGTTGAAAATCAAGGCCAAAG
GTAGTGCAATTTTTTCATTAAGATTTAAAAAAAAGGGAATGATAGTCTTTGAAAGAAAAC
AGTAGGCATCCAGCACTGGACAAAACATGGGTATCAAAGATGAATAATCTTTGGAGATTC
TGGCAGTGTTTTCCCAGAACAAGTCAAGTGGAAAGTGGAGAAATTATCTGTATAATTTTG
GACACATACAATGGCAGTTTATCAAAGGGTTTTGTTCTGTGGCCTGAATTTACTGGGGTC
CTACCTACACATTGAACATGTTTTGGCTGGCTTTTTTTTTTTTTTTCAACTTGCCAGTTT
CACTTTACATGGTTAGTAATAAATGGTTTCCACGGGGTGAGTTGGGATAAAATTNTTNAA
AACATNTTAAATTCCA
Sequence=1582;DNA;Homo sapiens
GGAGTCGACCNCGCGTCCGAGCCGGGCCGGGGCGATGTGGAGCGCGGGCCGCGGCGGGGC
TGCCTGGCCGGTGCTGTTGGGGCTGCTGCTGGCGCTGTTAGTGCCGGGCGGTGGTGCCGC
CAAGACCGGTGCGGAGCTCGTGACCTGCGGGTCGGTGCTGAAGCTGCTCAATACGCACCA
CCGCGTGCGGCTGCACTCGCACGACATCAAATACGGATCCGGCAGCGGCCAGCAATCGGT
GACCGGCGTAGAGGCCGTCGGACGACGCCAATAGCTACTGGCGGATCCGCGGCGGCTCGG
AGGGCCGGGTGCCCGCGCGGGTCC
Sequence=1583;DNA;Homo sapiens
CGCGTCCGGGGCAGCCGCGCCCGCGGAGTTTTCCGCCCGGCGCTGACGGCTGCTGCGCCC
GCGGCTCCCCAGTGCCCCGAGTGCCCCGCGGGCCCCGCGAGCGGGAGTGGGACCCAGCCC
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Sequence=1584;DNA;Homo sapiens
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CCCCACGGCCCCCGCGCCCGCTCCGACGGCGACCTCGGCTCCAGTCAAGCCCGGCCCGGC
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Sequence=1585;DNA;Homo sapiens
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Sequence=1586;DNA;Homo sapiens
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Sequence=1587;DNA;Homo sapiens
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TGAACCACTGATTTTAATTTGCCTAATTATCTTATGACAAGTATCAAATTAAGATGACAC
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Sequence=1605;DNA;Homo sapiens

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Sequence=1606;DNA;Homo sapiens

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TABLE 2

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Sequence=1617;DNA;Homo sapiens

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NCTGTAGATGTTTTGAGTCAAGGAAGGTA

Sequence=1618;DNA;Homo sapiens

TCGACCNCGCGTCCGGTGGGTCCCTGCCGGCCGGCGGCGGGCGCAGACAGCGGCGGGCGC
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CTCTGGCTGGCGTTGCTGCGCTCCGTGGCCGGGGAGCAAGCGCCAGGCACCGCCCCCTGC
TCCCGCGGCAGCTCCTGGAGCGCGGACCTGGACAAGTGCATGGACTGCGCGTCTTGCAGG
GCGCGACCGCACAGCGACTTCTGCCTGGGCTGAGCTGCAGCACCTCCTGCCCCCTTCCGG
CTGCTTTGGCCCATCCTTGGGGGCGCTCTGAGCCTGACCTTCGTGCTGGGGCTGCTTTCT
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GACCGGCGGANAGGGCTGC

Sequence=1619;DNA;Homo sapiens

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CAGGCAGTTCAGATTAAAGAAGCTAATTGATCAAGAAATCAAGTCTCAGGAGGAGAAGGA
GCAAGAAAAGGAGAAAAGGGTCACCACCCTGAAAGAGGAGCTGACCAAGCTGAAGTCTTT
TGCTTTGATGGTGGTGGATGAACAGCAAAGGCTGACGGCACAGCTCACCCTTCAAAGACA
GAAAATCCAAGAGCTGACCACAAATGCAAAGGAAACACATACCAAACTAGCCCTTGCTGA
AGCCAGAGTTCAGGAGGAAGAGCAGAAGGCAACCAGACTAGAGAAGGAACTGNNAACGCA
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Sequence=1620;DNA;Homo sapiens

GACCACGCGTCCGGAAGGAAGGGACGGGCTGAGTTCCCCGACGAGAGACACACCCAGATT
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CCTTAGCCAGGATGGAGGCTGTTGTGAACTTGTACCAAGAGGTGATGAAGCACGCAGATC
CCCGGATCCAGGGCTACCCTCTGATGGGGTCCCCCTTGCTAATGACCTCCATTCTNCTGA
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Sequence=1621;DNA;Homo sapiens

GTCGACCACGCGTCCGGGCTCCATCCGGGCTATCCTGCCGCCTTAGCGGCTGCTTCTCCC
CAGGATGCGGGCAGGGGGCCTCTCTCCCACTCCCCACACACCGATTTCTGAGTAGCGATA
GGGGCTGGAGGCTTATTTTATGGGGTAGGGGGCCGCTGGTAGGCGAAGATTGTCCGAGGG
AGAGGGGGAGGATGAAGCCAGTGCGTGGCGGAGACTTGCCAGATGTTGATGCCTAAGAAG
AACCGGATTGCCATTTATGAACTCCTTTTTAAGGAGGGAGTCATGGTGGCCAAGAAGGAT
GTCCACATGCCTAAGCACCCGGAGCTGGCAGACAAGAATGTGCCCAACCTTCATGTCATG
AAGGCCATGCAGTCTCTCAAGTCCCGAGGCTACGTGAAGGAACAGTTTGCCTGGAGACAT
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Sequence=1622;DNA;Homo sapiens

CCGCGTCCGGGGGTTGGTACCCGAGCGCCTTCCCCTCACCTCAACCAGAGAAGAGCATCC
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GCTTCTGCTGATCGCAGGGGTTCTTATTTGAAAACATCTATGATGGGGGTGGGGTGGGAG
GAGACAGGTTGTGGTTATGCAGGAAAATCTTGTCCTAAAAATATATGAGTTTGGGGGTAA

TABLE 2

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GGGGTGGGATAGCCAAGCAAAATCAGTAATTATTTTAAAATGAACATATGTATTTTTATT
AACTTTTAGTTAAATACAGATTTTACAACGAGGTCAGCATAAGCCTAAATCTATATAGAG
GGCTAACTCAGGCATTGTCTTGTTTATTTGTAGACTGGATTAAAAACAACCTGTCCTGTT
TTGTNAGTTCCCAGCTTCTTTCGTTTAGAATAAATTAGACCAAAAGAA

Sequence=1623;DNA;Homo sapiens

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CCTAGTCCTGGTGTCTGCTGGATTTGATGCTGCTGAGGGTCACCCGGCCCCACTGGGTGG
CTACCATGTTTCTGCCAAATGTTTTGGATACATGACGCAGCAACTGATGAACCTGGCAGG
AGGCGCAGTGGTGCTGGCCTTGGAGGGTGGCCATGACCTCACAGCCATCTGTGACGCCTC
TGAGGCCTGTGTGGCTGCTCTTCTGGGTAACAGGGTGGATCCCCTTTCAGAAGAAGGCTG
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TAAGTGTGGAGATGGGACACTCGCTGAGCTCAGACTGAAGGATCTTGGT

Sequence=1624;DNA;Homo sapiens

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CCACNGCAGTGAACCTCCTGGGGAACTTGCCCCTCAAGTGTCTGGATGTTCTCCTCACCC
TGGAGCCACATGGAGACTCCACGGAGTTCATGGGAGTGAATATGGATGTGATTCGTGCCC
TCCTCATCTTCCTAGAGAAGCGTTTGCACAAGACACACAGGCTGAAGGAGAGTGTAGCTC
CCGTGCTGAGCGTGCTGACTGAATGTGCCCGGATGCACCGCCCAGCCAGGAAGTTCCTGA
AGGCCCAGGTGCTGCCCCCTCTGCGGGATGTGAGGACACGGCCTGAGGTTGGGGGAGATG
CTGCGGAACAAGCTTGTCCGCCTCATGACACACCTGGACACAAGATGTGAAGAGGGTGGC
TGCCGAGTTCTTGTTTG

Sequence=1625;DNA;Homo sapiens

NCGCGTCCGACACTATTTAGAGAGCTCCCTTCCCACCTCTCTGCCCAGCCTTGTTACCTC
ACTTCTGCTCTGGCCATGGCTGTGAAGGGCCCAGCCAGCTCCCTGTTTTGATGTTCTGTG
CAACAGCTCCGGGGTCTTGTGACTGGAGATCCTCAACAGGCCCTGGAGCCAGGACTGGAG
TCTTGGCAGCTGATGAGCAGCACCTTGCCGGCCAGGAGGAGCTGATGCTGACGATCTCCC
CAACATCTGAAGGCTTAAAGAACATTGTCGTTCTTCAGCCCTCCTTGCTTCTCTCAATAC
AATAAGACATTGCAGAAGCAAAAGGGTGGCCTCTGCTCCAGGCAAGGCAGCTGGCTCTGT
CTGGGGGCGTCGGCCTGGGGCTTGGGTGCCACGTGCTGAGATTGCATAGTCAAAACAAGC
CATTTTTGCCAACAATAGCTTGTGGCTCCCACATTTTTCTACCCTTGCACTNAANGGCCA
GACCACTCTNTGCATGGACCAANACCATNTTTCCAAACCCATGGGGCTTTTTTTNCC

Sequence=1626;DNA;Homo sapiens

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GCCAAAGAAGTTTGCCCCATGTACTTTATGAAGCTCCGCTCTGGCCTTATGATAAAAAAG
GAGGCCTGTTACTTTAGGAGAGAAACCACCAAAAGGCCTTCACTGAAAACAGGTAGAAAG
CACAAAAGACATCTGGTACTCGCTGCCTGTCAACAGCAGTCTACTGTGGAGTGCTTTGCC
TTTGGTATATCAAGGGGTCCAGAAATATACTAGAGCACTTCATGATTCAAGTATCACAGG
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CTTTTGCTTTGGAGGATGGAAAGTTATGAGATATATGTTGAAGACTTGAAAAAAG

Sequence=1627;DNA;Homo sapiens

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AGGAATGCCAGGCATCCCAGGGCTGTCAGGAATCCCTGGGCTGCCTGGGAGGCCCGGCCA
CATCAAAGGAGTCAAGGGAGACATCGGAGTCCCCGGCATCCCCGGTTTGCCAGGATTCCC
TGGGGTGGCTGGCCCCCCTGGAATTACGGGATTCCCAGGATTCATAGGAAGCCGGGGTGA
CAAAGGTGCCCCAGGGAGAGCAGGCCTGTATGGCGAGATTGGCNCGACTGGTGATTTCGG
TGACATCGGGGACACTATAAATTTACCAGGAAGACCAGGCCTGAAGGGGGAGCGGNGCAC
CACTGGAATACCAGGTCTGAAGGGATTCTTTGGAGAGAAG

Sequence=1628;DNA;Homo sapiens

GAGTCGACCNCGCGTCCGCAACTGGTGTCCAGCTCGGTGCACTCCAAGCGCCGTTCCCGA
GCGGACCTCACGGCCGAGATGATCAGCGCCCCGCTGGGCGACTTCCGCCACACCATGCAC
GTTGGCCGGGCCGGAGACGCCTTTGGGGACACCTCCTTCCTCAATAGCAAGGCTGGCGAG

TABLE 2

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CCCGACGGCGAGTCCTTGGACGAACAGCCCTCTTCTTCATCTTCCAAACGCAGTCTCCTG
TCCAGGAAGTTCCGGGGCAGCAAGCGGTCACAGTCGGTGACCAGGGGGGAGCGGGAGCAG
CGTGACATGCTGGGCTCCCTGCGGGACTCGGCCCTGTTTGTCAAGAATGCCATGTCCCTG
CCCCAGCTCAATGAGAAGGAGGCCGCGGAGAAGGGCACCAGTAAGCTGCCCAAGAGCCTG
TCATCCAGCCCCGTGAAGAAGGCCAATGACGGGGGAGGGCGGCGATGAGGAGGCGGGCAC
GGAGGAAGGCAGTGCCCCGTCGGAAT

Sequence=1629;DNA;Homo sapiens

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GGCTGCCCTGTGCATCTACTCTCCCGAGGGCCACGTGCTGACCCTGGACGCCCTGGACCA
CTACAAGACGGTGTGCAGCCAGCAGTACCGCTTCAGCATTGTCATGAACGAGCTCTCCGG
CAGCGACAACGTGCCCTACGTGGTCACCCTGCTTAGCGTGATCAACGCCGTCATCTTGGG
CCCCGAGGACCTGCGCGCGCGCACCCAGCTGCGGAACGAGTTTATCGGGCTGCAGCTGCT
GGACGTCCTGGCTCGCCTGCGGTGAGTCCCCACTGTAGCGGTCCTGCCGGNTTNCCCCTC
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CTTCCAGATGGCAGGGGAGGTGGC

Sequence=1630;DNA;Homo sapiens

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TGGGGACCAGCTAATTGGTCCAACCCAGCCTGAGTGCACCACCCTTTGAACAAATGTATC
AGTGATGAAAATTTGCCTTTGCCCCGGCTTGCCTGTAATCCCAGCACTTTGGGAGGCCGA
GGTGGGCGGATCACTTGAGGTCGGGAGTTCAGGACCAGCCTGGCCAGCGTGGCGAAACCC
CGTCTCTACTAAACATAAAAAAATTAGTCAGGTGTGGCGGTGCGTGCCTGTGGTCCCAGC
TATTCAGGAGGCTGAGGCACCAGAATTGCTTGA

Sequence=1631;DNA;Homo sapiens

TGACGGCGGCCCGGCCGACGGGAGCCGGGGCGGGGCGGCGGNCCANCGAAGGAGCGCGCG
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GCGGGCGCAGGCCCCTGCGGCGGCGGCGGGATGTTCGTGCAGGAGGAGAAGATCTTCGCG
GGCAAGGTGCTGCGGCTGCACATTTGCGCGTNCGACGGCGCCTAGTGGCTGGAGGAGGCC
ACCCNGGACACCTACNGTGGANAAANCTCAAGGAGCGCTTGCCTCAAAGCACTGTGCTCA
TGGGGAGCTTANAAGATCCCCAAAAGTATAACCCATCATTAAATTTAATCCCACGCTGCC
TNAANANAAGGGGTGCTTGNGTGATTGCCATGNACCATNCTTGGGAAGGAAGAAACCATT
CCCAGGACCCAAAAGATGGGCCCTATTTNTTGGATTA

Sequence=1632;DNA;Homo sapiens

CACGCGTCCGGGATCCCGTACCCGGGACAGACTCGGCGCCGCTGGCTGGCCTGGCCTGGT
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CACCCGCCAGCTTTGGCAAGAGCTTCGCGCAGAAATCTGGCTACTTCCTGTGCCTTAGTT
CTCTGGGCAGCCTAGAGAACCCGCAGGAGAACGTGGTGGCCGATATCCAGATCGTGGTGG
ACAAGAGCCCCCTGCCGCTGGGCTTCTCCCCCGTCTGCGACCCCATGGATTCCAAGGCCT
CTGTGTCCAAGAAGAAACGCATGTGTGTGAAGCTGTTGCCCCTGGGAGCCACGGACACGG
CTGTGTTTGATGTCCGGCTGAGTGGGAAGACCAAGACAGTGCCTGGATACCTTCGAATAG
GGGACATGGGCGGCTTTGCCATTCTGGTGCAAGAAGGCCA

Sequence=1633;DNA;Homo sapiens

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CTTGCCATCCCTGCAATAGCCCTTTTATGGGCTCTGGGAGACAGCTTTAGGGAATAAATG
GGGATTTTCCCCTTTTTCTACCCACTCCTTTGCTTCCTCCAAGACTTACCCAACTCCTTC
CCCCTCAGAGAACCAAATAGCCTGAGGAAGCAGGAGAGTTCCTGGTTATGGCAGATTCTT
GGTGATTTGGGGCTTCAAGACAGTAGGTGAGAGATGCTGTCAGGGACGTATCTTCTTCAT
ACCAAAGTCACTGGTCCTTTCTCAGCCTCTCTCGTGCTTTTCTCCTAATGACCATATTTT
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Sequence=1634;DNA;Homo sapiens

GCGCCGCGGATATNCGGATCAACCTATGGTNTCAATATTGTNAGTTATTCAGCATAAACA
GAATTATTTCCCAANACTTGATCTGAAATATTNNTAATGGTCNTACTNGAAACTTATATT

TABLE 2
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CTTNCTGGGAGNGANGTNTTTATCATTTTTCCATGGAGACAGGTTCTAACTCTGTTGCCC
AGGCTGCANTGCAGTGATGTGATCATAGCTCACTGCAGCCTGAAACTCCTGGGTGTCAAG
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CTAATTTATTTTTTAGAGATGAGGTNTCGCTATGTNGCCCAGTCTGGCCNNCTAGCCNCA
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CTGTTGATCGTTTATCATAAANGCATTT
Sequence=1635;DNA;Homo sapiens
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GACAAGAAGTTGCTGGGTTTGTTTTGCTACTGATGAAGATGATAGAACAGCTGAATGGGT
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GCTGGGTGGATGAAAAGCAAAGAG
Sequence=1636;DNA;Homo sapiens
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TAACTACAGGCTTTTCCCAAGACTACAAAAACTTCTTGAAAGTGACTACTTTAGGTATTA
CAAGGTAAACCTGAAGAGGCCCGTGTCCTTTCTGGAATGACATCAGCCAGTGTGGAAGAA
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AGCTACAAGTATTCTGAAGAAGCCAATAATCTCATTGAAGGAATGTGAACAAGCTGAACG
ACTTGGAAGCAGTGGAT
Sequence=1637;DNA;Homo sapiens
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TATA
Sequence=1638;DNA;Homo sapiens
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CTCCCCTGAGAACCTCAGTTCTTCCTAAATTGCTAAAGCTGAGGGGAAAGGGATGCTTTG
CGGCAAAGGCGCTGCTGCCTCAAGCTTGCTTTACATGCCTCTCTAGTTCCTCTCGCACTA
CAGAGTGGTAGCGAACAAAAGCGTTCGCCCTAGAAGCGACCTGAATGGAAAAATCTGCAC
ACGAACTAATGGGTTTGTCACGGAAAGTAGGGAACCGGGTCTGCAGCATTCCCTGGAGAC
AGACTTTCTGGTTGGTTTTCAAGGGTCCAAGGCAGCCATCAGCCCGGCTGTGCCCTCCCA
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Sequence=1639;DNA;Homo sapiens
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GAGCACAGCGGAGAGTGGCGCNCGAGTGCACCAACTGGAACAGCAGCCGCGTTGGCCCAG
AAGCCCTACAGCGGGCGGAGGCCAGACGCCATCAGGCTGGGCCTGGGGAACCACAACTAC
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Sequence=1640;DNA;Homo sapiens
CCGTCCGCTCCTTGGCAAGAACGAAAGGTGTGATGAAACCTCCCTGCTCGGAAGGGTCTC

TABLE 2

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CGTGGAGGTGTCCTCATTTCACATGCTGGGTTTTGCAAGCGAGGAAGCCAGGCAGTGGAG
GAACTAGAGAGAGGCAGGCGTGTGTGTGGACAAGCGCTGGAGCCGCAGCCCTCAGACTGG
CACGGGAACGCCAGCGTTGGGTGTTCAGATTCCACGCGTATGTCTGGGCTCACTCACAGC
ATGGCCGAGTGTCTGCAGTGCTGGTCCTGACCCTTCCAGAGCAGCAGTGGACAGATGAGA
TAAGACTGTTTCAGAAACAAAGATGGCCACAGCCTTCCTAACAAGCAGGTCATCTGGCCA
TGTCTGTATTGTAACTGGTAAAAGGCTTCAAGTCAGATTGATGATCAAGAAAANGTCAAA
ACCCCAGCCCAAGATTGGGAAAGCAGGTTNGTGGNTCCAANGCTTTTTAAAAAAATTATT
TGAAGCTCTTCATTCCTNTTTCTGTGAGTGTGTCTTTCTCTT

Sequence=1641;DNA;Homo sapiens

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TGTGCCAGCTACAAGGAGGGTCTGACTTCAGGAAAGTGGTTTAAATAACAGTGCAATTTC
AAAAAAATTTATAACTTTCTTTTGATCATCATGTACAGAGGTGTTTTTTTTCTTTAGGCT
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TTTTTTTTTAAAGAATC

Sequence=1642;DNA;Homo sapiens

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GACTGGGAACAATGGAAAAAATTACATTAGCTGTGGTTGTAAAGTTTTTTTGTTTTTGGT
TTTGTTTTTTTTTTTCTTTTTTCTTTTTTTTTTTTTTTACCATCTTGTGAAAGGTTTCTGAA
ACTCGATAATAAAAAGCGGTTGGTGTAAATTATTCTTTTGTGTCACATTTTTAGAAGGAA
AAACATAAAAGAATGTATCCTTAGTACTGGTTCTTAAACAGCCCATAAAAACCCATTGGC
CTGAAGCTTATATCTCAGGCCTATGCCCATCTTATAGTCTTGGAAGACAAAA

Sequence=1643;DNA;Homo sapiens

CGCGTCCGTGGGTCTCGCCCTCAACCTGTGCATGTATATGTGTGTCTTTGTGTGTGTATG
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CGCCTCCAGGAGAAGTTGTCACCTCCCTACAGCTCCCCACAGGAGTTTGCCCAGGATGTG
GGCCGCATGTTCAAGCAATTCAACAAGTTAACTGAGGACAAGGCAGACGTGCAGTCCATC
ATCGGCCTGCAGCGCTTCTTCGAGACGCGCATGAACGAGGCCTTCGGTGACACCAAGTTC
TCTGCTGTGCTGGTGGAGCCCCCGCCGATGAAGCCTGCCTGGTGCTTGGCCTGAAGTTTC
CCAAGGAAGCTGTCTGGTGGGCCCCTTGGGTGATGGGCCCCTTGGAGGGCTTGGAAGCCC
CCCCATGGGCCAAGCCCCAGCCCTGGGCTTCTGGTTCNTCTTGTCCCTGGTCACCCCCAT
CCCCACTCCCCCTTGGGTGGGCCTTGAACTTNCCACTTCCCTTGGGTGGGGCCC

Sequence=1644;DNA;Homo sapiens

AGGAGGNTTGAAGGAGTTGNNGGAGGAGGAGGATGGAGGCGAGGGCGAGCGAGCCCAGCG
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CCGCCCNTTTCANAACAGTTCGNCGCCACAAAANAAAAGAACGGGGGGGTGCCGAGGTTN
CCCATTGANCTCTTAAAGTGGTGCAGGTCCCTGTTGAGTGCGCTGCACCGGGCCGTGACC
CGCGCCCCTGTGCGTCCC

Sequence=1645;DNA;Homo sapiens

GGAGTCGACCACGCGTCCGCGCCGGCCGCCGGTGTCCGGACCGCTCGCCCCCGTTTGGAC
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CTAGCCTGTACGACGCTGACTCTGCCCGGTCCCAGAACCAAAGCCATGCCGGGGTGTGGC
CTCTGACCCCACGCGGAGGGGACCTCGCCTTGCGGGACCCCACCTGGAACCCGACCTNCC
AGNCTCGCAGCCGGCCTGAGCCGCCATGCGCGGGAAGTTGCTGCCGCTGGCCGGCCTATA
CCTGGTGCAGGGCCTGCCCTACGGGCTCCAGTCCGGCCTCCTGCCAAATGCTGCTTGCGT
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GCTTCAAGCTGGCT

Sequence=1646;DNA;Homo sapiens

CNCCCCGCGTCCGCGGACGCGTGGGTGCTTGCTGCTGAACCTGAGCTGCAAGTTGGAATT
GATATAATGAAGACTAGTTTTCCAGGTCGTGGTTCAATTCCAGAATTCTTTCATATTATG
AAAAGAAAGTTTACCAACAAAGAATGGGAAACAATCAGAAGCTTTAAGGATGAGTGGACT

TABLE 2

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CAGCTGGATATGTTTTATAGGAATTGGGCACTTAAGGAAAGCTTCATAAAAGCCATTGGT
GTTGGACTAGGATTTGAATTGCAGCGGCTTGAATTTGATCTATCTCCATTAAACTTGGAT
ATAGGCCAAGTTTATAAAGAAACACGTTTATTCCTGGATGGAGAGGAAGAAAAAGAATGG
GCATTTGAGGAAAGCAAAATAGATGAGCACCATTTTGTTGCAGTTGCTCTTAGGAAACCC
GATGGGATCTAGACATCAGGGGATGTTCCATCTCAGGATGATTCCAAACCAACCCAGAGG
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Sequence=1647;DNA;Homo sapiens

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GTACTGTTACAGTTTGAGAATTTGTAGTATTACATCATTACATAAGTCATTTTAGTAACA
GCCTTTGTGAAATGAACTTGTTTACTATTGGAGATAACCACACTTAATNAAGAAGAGACA
GTGAAAGTACCATCATAATTAACCTAAATTTTTTGTTATAGCAGAGTTTTCTTGTTTAAA
AAAAAATAAAATCATCTNGAAAAGCATTTTGTACAGTTAAAATGTATAATGAAGCTTTTG
CCAACCAGACTGGTGCTTAGCAACCAAATTTTTTTTTTAAATAAAGCTTTTATGGCAGGT
GGGTAAATAAGGTGGCCTTCCAAATATATTGGTGTCTTGATGGAGAGTTNTTTAGTTGAA
ATGAATGTGGGTCTTTTCT

Sequence=1648;DNA;Homo sapiens

CGGTTAACATGGCCGTCACCGACAGCCTCAGCCGGGCTGCGACTGTCTTGGCAACTGTNT
TGCTCTTGTCCTTCGGCAGCGTGGCCGCTAGTCATATCGAGGATCAAGCANAACAATTCT
TTATGAAGTGGCCNATCAAACAANCTGGGCCTGTTCTTGGTGTGTACATCCCCGATTCTG
GTATTAATTATCGACATGTTGCAAATACCCTTTCTGTTTATAGAAGTGTCAAGAGGCTAG
GTATTCCTGACAGTCACATNTGCCCCTAATGCTTGCAGATGATATGGCCTGTAATCCCTA
GAAATCCCAAACCAGCTACAGTGTTTTAGTTCACAANCAATNTGGAACTAAATGGTGTAT
GGGAGAATGATGTGGGAAGGTGNNATTATAGAAGTTTNTTGAGGTAAACNGGTGGGAGAA
NNNTTTTTTTACCNGGGTAATTTAANCTGNGGGAGGGANTCCCCACCCTAAGTANCTTCC
TTCGGG

Sequence=1649;DNA;Homo sapiens

GTCCGCAAGATGGACGCAGCTCTCTGACCTACGACACTCTCCGGTTTGCTGAGTTTGAAG
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AAAAGGACGAGATCTTGTCTGATGTGGCATCTANACTTTTGNTTTACATACAGGAAAAAC
TTTCCAGCCATTGGGGGGACAGGCCCCACCTCGGACACAGGCTGGGGCTGCATGCTGCGG
TGTGGACAGATGATCTTTGCCCAAGCCCTGGTGTGCCGGCACCTAGGCCGAGATTGGAGG
TGGACACAAAGGAAGAGGCAGCCAGACAGCTACTTCAGCGTCCTCAACGCATTCATCGAC
AGGAAGGACAGTTACTACTCCATTCACCAGATAGCGCAAATGGGAGTTGGCGAAGGCAAG
TCCATAGGGCCAGGTGGTACGG

Sequence=1650;DNA;Homo sapiens

CCCCGCGTCCGCTCGNAGCTGTCCGCGGTCTGTTTGGCCCGAACGGCGGCGGAGGCGCTG
ATCATGGCGACATTCATCTCGGTGCAGCTGAAAAAGACCTCAGAGGTGGACCTGGCCAAG
CCGCTGGTGAAGTTCATCCAGCAGACTTACCCAAGCGGCGGGGGAAGAGCAGGCCCAGTA
CTGCCGCGCGGCGGAGGAGCTCAGCAAGCTGCGCCGCGCCGCAGTCGGTCGTCCGCTGGA
CAAGCACGAGGGCGCGCTCGAGACGCTCCTGAGATATTATGATCAGATTTGTTCTATTGA
ACCCAAATTCCCATTTTCTGAAAATCAGATCTGCTTGACATTTACCTGGAAGGATGCTTT
CGATAAAGGTTCACTTTTTTGGAGGCTCTGTAAAACTGGCTCTTGCAAGCTTAGGATATGA
AAAGAGCTGTGTTGTTGTTCAATTGTGCAGCCTTAGCTAGCCAAATTGCAGCAGAACAAG
AACCTGGATAATGATGAAGGGATTGAAAATCGCT

Sequence=1651;DNA;Homo sapiens

TTCGGGAGTCGACCCCGCGTCCGGGCCAGCCGGCTCGCCCGGGGGCCATGGCAGCAGCGG
CTACTGCAGCCGAGGGGGTCCCCAGTCGGGGGCCTCCCGGGGAAGTCATTCATCTGAATG
TGGGAGGCAAGAGATTCAGTACCTCTCGCCAGACTCTCACCTGGATCCCAGACTCCTTCT
TCTCCAGTCTTCTGAGCGGACGCATCTCGACGCTGAAAGATGAGACCGGAGCAATCTTCA
TCGACAGGGACCCTACAGTCTTCGCCCCCATCCTCAACTTCCTGCGCACCAAAGAGTTGG
ATCCCAGGGGTGTCCACGGTTCCAGCCTCCTCCATGAAGCCCAGTTCTATGGGCTCACTC
CTCTGGTTCGTCGCCTGCAGCTTCGAGAGGAGTTGGATTCGATCTTCTTGTGGAAACGTC
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CTAGTGGGGCCTCA

TABLE 2
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Sequence=1652;DNA;Homo sapiens
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AGCCAGGATGGAGGCTGTTGTGAACTTGTACCAAGAGGTGATGAAGCACGCAGATCCCCG
GATCCAGGGCTACCCTCTGATGGGGTCCCCCTTGCTAATGACCTCCATTCTCCTGACCTA
CGTGTACTTCGTTCTCTCACTTGGGCCTCGCATCATGGCTAATCGGAAGCCCTTCCAGCT
CCGTGGCTTCATGATTGTCTACAACTTCTCACTGGTGGCACTCTCCCTCTACATTGTCTA
TGAGTTCCTGATGTCGGGCTGGCTGAGCACCTATACCTGGCGCTGTGACCCTGTGGACTA
TTCCAACAGCCCTGAGGCACTTAGGATGGTTCGGGTGGCCTGGCTCTTCCTCTTCTCCAA
GTTC
Sequence=1653;DNA;Homo sapiens
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CCGCCTGGCGCACTACATCGACCGCGTCCGCGCGCTGGAGCTGGAGAACGACCGGCTCCT
GCTCAAGATCTCAGAGAAGGAGGAGGTGACCACGCGCGAGGTGAGTGGCATCAAGGCGCT
GTACGAGTCGGAGCTGGCCGATGCCCGGAGAGTCCTGGATGAGACGGCTCGAGAGCGTGC
CCGGCTGCAGATAGAGATTGGGAAGCTGAGGGCAGAGTTGGACGAGGTCAACAAGAGCGC
CAAGAAGAGGGAGGGCGAGCTTACGGTGGCCCAGGGCCGTGTGAAGGACCTGGAGTCCCT
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Sequence=1654;DNA;Homo sapiens
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AACAGCAGTGGACATCTACTCCTTTGGCATGTGTGCACTGGAGATGGCAGTGCTGGAGAT
TCAGGGCAATGGAGAGTCCTCATATGTGCCACAGGAAGCCATCAGCAGTGCCATCCAGCT
TCTAGAAGACCCATTACAGAGGGAGTTCATTCAAAAGTGCCTGCAGTCTGAGCCTGCTCG
CAGACCAACAGCCAGAGAACTTCTGTTCCACCCAGCATTGTTTGAAGTGCCCTCGCTCAA
ACTCCTTGCGGCCCACTGCATTGTGGGACACCAACACATGATCCCAGAGAACGCTCTAGA
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CTGCGCTGTGGCTGTCCCTGGGACGTGCTGCAGCCCTCCTGTCCCTTCCCCCCAGTC
Sequence=1655;DNA;Homo sapiens
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TGGTTTGNTTTTTTAAGAAAC
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GTGNTGACGCGANTGCGATNTNCTGCCCANNGCNTCTTGAATGTCAAAGTTGAANAAANC
CAATGAAGCGCGGGTAAACGGCGGGAAGTAACTAATGACTTCTCATTAAGGGTAGCCAAA
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GTGTCACCGGCAACCTGGCCAGTGCCATCTTCCTGCCATACCGAGCAGAGGTGGGTCCTG
CTGGCTCCCAGTTCGGCATCCTGGCCTGCCTCTTCGTGGAGCTCTTCCAGAGCTGGCAGA
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TABLE 2

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Sequence=1658;DNA;Homo sapiens
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ACGTGATCCGCATTCGCAAGCCCTTCCACACANGACAACCACTAGCATTCAGGGCCAGTA
GGCACCCCTTCACCAACAAGCTTGACCACGTGTCCCGCGGAACTANCGCACCCCCGAGNA
GGGTTCAANGNATTCCTTGCACCCAGCCCAGATGCCCTGGCTTNTGGGGGGNCAAGTGAC
CCTTTGTGNAACCCACTCATTTTTTATGGCAAGGTGAGCATTNCCTAAAAACCCTTGAAA
AATGANGGGAANAACTTTCAAGGGGTTTTTTACAGGGCCCTTGGTTTTTTTTAAAATCCC
CAANATTTGGATAATAAATGGAATCCTCAAAAACACAAGTGGAGGAAGGNTCTTGAAAGG
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Sequence=1659;DNA;Homo sapiens
TCGACCACGCGTCCGGCCGGAGAAACTTGAGCCGGCTGCCCCGCCCACGGTGCCCGAAGC
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ACGCGACCAGGTGGGCGGTCGCCCCGCCCCGGGAGCGCGGCTTAATAGCTGAGAGCCCGG
GGGCCAGGCCGNGGCTGCGGCCCAGGCAACGCCCTGAGGGTGGCCACGCTGNCAGGTGTT
CCACTCCCCCGGGACTATGGGCAAGGGCCCGGGGCGGGGAGGGCGGCAGGTGCTGACACT
GGAGCTGCGCCGGAGGTCGGGGAACTCGGCCTCCTAAGACTGAGGACACTCGCCTGCTGG
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GGCTCCGAAGGGCCCTCCCAACCCGGGGA
Sequence=1660;DNA;Homo sapiens
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GGTACGTCCTCTCTCCGCGCTCACGCCCCCCTCCTCACCGTGTTTCCCGCCAGGACCATC
AGCACGTGCCCATCGACATCCAGACCAGCAAGCTGCTCGATTGGCTGGTGGACAGAAGGC
ACTGCAGCCTGAAATGGCAGAGTCTGGTGCTGACGATCCGCGAGAAGATCAATGCTGCCA
TCCAGGACATGCCAGAGAGCGAAGAGATCGCCCAGCTGCTGTCTGGGTCCTACATTCACT
ACTTTCACTGCCTAAGAATCCTGGACCTTCTCAAAGGCACAGAGGCCTTCCACGAAGAAT
ATTTTTGGC
Sequence=1661;DNA;Homo sapiens
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AGGTGGGCGGATCACAAGGTCAGGAGATCGAGACCATCCTGGCGAACACGGTGAAACCCC
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CAGCTACTCAGGGGGCTGAGGCAGGAGAATGGCGTGAATCCGGGAGGCGGAGCTTGCAGG
GAGCCGAGATAGTGTCACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCCGTCTCAAAA
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CATAA
Sequence=1662;DNA;Homo sapiens
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AACACCAGTCCAGAGTTCTGTTTCTGGGAGCCTGGTCCCTGGCATACAGCCTCCCTCCGT
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GAAGTTGACTCTGGTAGCCCCTCCAGGCGGTCCAAACGGAGATTCCAGTGGTGGGACCCA
GGGGAGTGGCAAAGTTGCTGACCTCGCCGTCCCTAAAGCCCTCTGCAGTTAGTAGTGTGA
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CTTCTTGGGAAATTATAC
Sequence=1663;DNA;Homo sapiens
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CGGGGGCTGCACTGGAGGACTCCCGGTCCCAGGAAGGGGCAAATGGTGAGGCCGAGTCAG
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AGGCTGTGGCAGAGGTGAGCGAGAGCACGAAGGCCGAGGCTGTGGCTGCGGTGCAGCGGC
AGTGCCAAGAGGAGGTGGCCTCGCTGCAGGCCATCCTGAAAGACTCCATCAGCAGCTATG
AAGCCCAGATCACCGCCCTGAAGCAGGAGCGACAGCAGCAGCAGCAGGGACTGTGAGGAG
AAGGAGCGGGAGCTGGGCCGCCTGAAGCAGCTGCTGTCCCGGGCCTACCCCCTGGA

Sequence=1664;DNA;Homo sapiens

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CCCCGGCAGCCGCCGCCACCCCAGCGCGCCCCGATCTGGCCCCCTGCCCCGCGAAGATGG
CTGCCGTACGCCGGGCCCGCAGTTATTGCCGCTGCCTGGTGCGCTTCTCCGACCGAGAAC
TCTGCTAAGCTCCGCTGCAGAGACAGGCAGGAGTAGACACCCGGACACCCAGCACCCCTC
CTTCGGGGGGCGGTGCAGAGGGGGCACGGAGAGCCCCTCGAGCGCAGCAGGCCGCCCCGC
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AGAAAATGAA

Sequence=1665;DNA;Homo sapiens

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CTCTGAACTCCCGAGCATCCTCCCTGAAATCTGGCCGAAGACACCCAGTGCGGCTGCAGT
CAGAAAGCCCATCGTCTTAAAGAGGATCGTGGCCCATGCTGTAGAGGTCCCAGCTGTCCA
ATCACCTCGCAGGAGCCCTAGGATTTCCTTTTTCTTGGAGAAAGAAAACGAGCCCCCTGG
CAGGGAGCTTACTAAGGAGGACCTTTTCAAGACACACAGCGTCCCTGCCACCCCCACCAG
CACTCCTGTGCCGAACCCTGAGGCCGAGTCCAGCTCCAAGGAAGGAGAGCTGGACGCCAG
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Sequence=1666;DNA;Homo sapiens

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ACCTGTGCATGGATTGTGCCTTGCAGCTGGAGACCTGCCCATTGTGTCGTAAAGAAATAG
TATCTAGAATCAGACAGATTTCTCATATTTCATGACACATGTGAAGAGGCATCGTGGACT
TTTTTCTACTCAATTCCAGCCAATGTTGAAAAGAAAAAGAAAAAAAAAACTCTAATCAGT
TGTACACACATTGAAACTTATAGCCATGGCCAGATTTTATGCTAAAAATGGTAGTTTGTC
AAAGACAAAATTCTCTTAGAATCTAATCCAACTTGCCAGCCCTGAGAAAATCCCTTTTAA
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CAGGACAATGCCCTC

Sequence=1667;DNA;Homo sapiens

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GCGGTCGGCGGTTTCCAGCCAATGGATTCTGGTCAACTGGTGGAGATTGGCTGACACCCT
GGAGAAGCCGAAACCAGAGAGCCTTTTGTTTTCTCTTTTTTCCTGTCTATGCTCTGTCTC
ACTTAACACTACGTTTTCTGCTATGGTCTGTGGTTGATGACCTCAATATGAGTTTCGATT
GTTAACCGTGTTTTTGTTTGGGAAGTAATTTTGTTTGAAAATGCTCTCACATACAGGAAT
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CTTGGCTCATCGTAACCTCCACCTCCCGGGTTCAAGTGATTCTCATGCCTCAGCCTCCCG
AGTAGCTGGGATTACAGGTGGTGACTTCCAAGAGTGACTCCGTCGGAGGAAAATGACTCC
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CCACGGCAGGGGCCACAGGGAAGACTTTCGCTTCTGCAGCCAGCGGAACCAGACACACAG
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Sequence=1669;DNA;Homo sapiens

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TABLE 2
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TGGCTGCCCTTCTTCATCGTTAACATTGTGCATGTGATCCAGGATAACCTCATCCGTAAG
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TATCACGTGGAACAGGAGAAAGAAAATAAAC
Sequence=1670;DNA;Homo sapiens
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Sequence=1675;DNA;Homo sapiens

TABLE 2
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Sequence=1676;DNA;Homo sapiens
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GTACAGANGGGGTGTATTTTTTGGTTTTTTTCT
Sequence=1677;DNA;Homo sapiens
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TTTAATTTAA
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CTGTCTTGCTACAGCTCAGGAAGGTGCCCGAAAACTGCTGGTCGTGGGGTCTTATGACTG
CACAATTAGTGTACGCGATGCCCGGAATGGACTGCTCCTCAGAACTCTGGAGGGCCATAG
CAAAACCATTCTTTGCATGAAGGTGGTGAATGATCTCGTGTTCAGTGGCTCCAGTGATCA
GTCAGTCCATGCTCACAACATTCACACTGGTGAGCTCGTGCGGATCTATAAAGGTCACAA

TABLE 2

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TCATGCAGTGACTGGTGGTGAATATCCTAGGAAAAGTGATGGTGACTGCTTGCCTGG
Sequence=1682;DNA;Homo sapiens
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GCTGGCCTCATGTACCCACCACCACTGTATGATGCTCATGAGCTCTGGCATGCCATGAAG
GGAGTAGGCACTGATGAGAATTGCCTCATTGAAATACTAGCTTCAAGAACAAATGGAGAA
ATTTTCCAG
Sequence=1683;DNA;Homo sapiens
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GGCGGTGCCCTGGTGACCAAGGAGAGCCAGACCTGTTGCTCAGGCCGAGCTCCTGGTTGC
CAGCGAGTTACCACGGGACCAGTCGCGTGTATGGCTGAGACTCATTCCCAGTTTCCAGGG
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Sequence=1684;DNA;Homo sapiens
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TGCCTTTATGTTACTTACTCAGGCTCGATTATTTGATGAACCTCAGCTTGCTAGTCTTTG
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ACACAACTAAAAAAAAACAAAGGTATTTATGGAATTCCACTGAGTGGTAATGGATGATGC
AGTTCAAATAACTAAGATAAGCATGGATTCCTGGTTCATTCTTGTTCTGCTCGGCAGTGG
TCTGATATGTGTCAGTGCCAACAATGCTACCACAGTTGCACCTTCTGTAGGAATTACAAG
ATTAATTAACTCATCAACGGCAGAACCAGTTAAAGAAGAGGCCAAAACTTCAAATCCAAC
TTCTTCACTAACTTCTCTTTCTGTGGCACCAACATTCAGC

Sequence=1721;DNA;Homo sapiens

GCGTCCGGGCCACATGGCCGCCGCCGCCGCTTGGAGCTGAAGTGCCGCCGCCGCCGGGCA
GCCACGGGGAATCCGCCCGCATCGCCGCCCTCGCCGGCCGGGCGGCCGTGGGGCCCAGAG
CGCCGGAGGCCAGGGCTGGGGCGGCACCGCGCAGCGGCCACGGGGTCCCGTTAGAGCAGC
GCCCGGCGGCTATGCCGAGAGCCCGGAGCGGCCGGAGGAGCAGAGGGGCCGNCGGGAGGG
AGGAAACCTTTCTGCGAGTACGAGCCAACCGGCAGACCCGACTGAATGCTCGGATTGGGA
AAATGAAACGGAGGAAGCAAGATGAAGGGCANAGGGAAGGCTCCTGCATGGCTGAGGATG
ATGCTGTGGACATCGAGCATGAGAACAACAACCGCTTTGAGGAGTATGAGTGGTGTGGAC
AGAAGCGGATACGGGCCACCACTCTCCTGGAAGGTGGCTTCCGAGGCTCTGGCT

Sequence=1722;DNA;Homo sapiens

TNGATGTGTATATGGACTGTTNTGAAGGGTTTTTTTCTTTATAGCCCANTTAAGTTNTGT
TTGGCTCGGTGCATTTTTCATTTATTTAATTAGTAATTTAAGTAACNGTGTTTGNGTAAA
ATCATTGTGAAGTTTCAAGATTCATTATGGGANGAGTTGATGGTNCANTNANGCATGATG
GTTTAACAAATTTTAACACCAAAAATGTTAAATCCTGCATAAATTCAACTGTANATAATA
AATANGGTGTTTTCNTGTATATGATAGNAATGCAATTAGAAGTACCTNTAGTAAANTCTT
TTGGAATCACCAATNCTTTTTTGGCTTGAAAATTGGGAAAGAATTTCTGTTTATAATNCC
TTTNNAATTAAACCTTGNGNGGGGGGAGGGGGAAAATAAAAAATTGCAGGAAAAACCTGC
ATGAGNCACCTTAANAACCTTTAAAAGTAAGGGGGCTTNCCAATCTTTTTANTCCCNGGA
AAACCCTGGTTGCCTNTTTTTGGCA

Sequence=1723;DNA;Homo sapiens

CGTCCGTTTAAAGGCTCTGACTCTTGATCTTGAAAGCCGGACGCGGCACTGGCACTCGGC
TTCAGTTTCCACTGTGACAGATGGAGGTCTCCTTTCGCCCCAGCCCAGGTGGCCAAGCCC
ATCCTGGCCTCAGAACATGCTGAGCACATTTTGTAGGGTGGCACCTTTTTATCCAAGTTA
CTAGCTACACATCAGTGTTTAAAGAGAAAAAAGTGACCTTTCATTTTTTTTTTTCTTGAA
ACTTGAGGAAACAAGATACATACTACTGATTTTTTTTTTTTCTTAAAACTAAATGCATGA
CTGCAGAGCGGTAGAGGTGTATATTTTTCATACTGTGGGGCAAAGTATTTGTGCTGCTTT
TTGGAGATGGACTGGAACGTCTGGTTTCTGTCCCCGGGCCCGGCAGCTACCGTCTATTTT
CTGTAGAAGGTGCCACAGTGAGACCTGGAG

Sequence=1724;DNA;Homo sapiens

CCCCGCGTCCGCTTCCGGTTGCTAACGGTTCCCAAACAGCCCCCGAAAACGCTACGTGAG
CTGGGCCCTGGGCCAGAGGCAGAAAACGGACGGAAGAAAAGGTCTGGCCGGAGATGGGTC
TCACTCTGTCACCCAGACTGGAGTGCAGTGAGTGGTGCGATCATAGCTTACTGCAGCCTG
AAACTCCTGGGCTCAAGTGATCTTCTCGCCTCAGCCTCCTGAGTAGCTGGAGCTACAGGT
GTGAGCTACCCAGCATGGCTCATTTGAGATTTCTGAGTAGAGAAGTAACATGATTAAAC

Sequence=1725;DNA;Homo sapiens

GGAACCTCCCCTAGATTTCAGAAGATGTATGGAAACGCCTAGATGCCCTGGCAGAAGTTT
GCTGCAGGGGCGGGGCTCTCATGAAGAACCTCTGCTAAGGCAGTGTGGAAGGGAAATGTG
GGGTTGGAGCCCCCAAACAGAGTCCTTAGTGGGGTGCTGCCTAGTGGAGCTGTGAGAAGA
GGGCCATCATCCTCCAGACCCCAGAATGGTAGATCCACTGACAGCTTGAACTGTGCACCT
GGAAGAGCCGCAGACACTCAATGCCAGCCCGTGAAAGCAGCCAGAAGGGAGGCTGTACCC
TGCAAAACCACAGGGGCAGAGCTGCCCAAGACTGTGGGAACCCACCTCATGCTTCAGTGT
AACCTGGATGTGAGACCTGGAGTCAAAGGAGATCATTCTGGAGCTTTAAAGTTTGACTGC
CATGCAGGATTTCGGACTTGCATGGGCCCTGTAACCCCTTTGTTTTGGCCAATTTCTCCC
GTTTGGAACGGCTGTAATTACCCAATACGTGTATCCCCATCGTATCTAGGAAGTAACTAG
CTTGCTTTTGTTTTTACAGACTCATAGGTGGAANGGACTTGCCTTGTCTCAAATGAGACT
TTTGGACTGTGGACTTTT

Sequence=1726;DNA;Homo sapiens

GCGTCCGGAACTTTATAAGAATTTATGCCGTTNTACATGAACCGTTAAGTTTTGTACTTG

TABLE 2

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ACGTTTCTGTTTATTANGCTAAATTGTTCCTCAGGTGTGTGTNTATATATATACATATAT
ATATATATATATATATATGTATATATATACACATATATACGTATATATACATATATATGTAT
ATGGAGTCTCGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCACGATCCCAGCTCACTGCAA
CCTCCGCCTCCCGGGTTCGGGCGATTCTTCTGCCTCAGCCTCCCTGGTAGCTGGGGCTGC
AGCCATGTGCCACCAAGCCCAGCTAATTTGTATTTTTGGTGGGAGACAGGGTTTCACCAT
GTTGGTGAGGCTGGTCTGGAACTGACCTCAAGTGATCTGCCCACCTCGGCCTCCCAAGGT
GTTGGGATTAACAGGTGTGAAGCCACCACGCCTGTCCCAGTATATTGTTTAACAAGTTTA
TTTTTGGGTGAAAAATTCTCTTTAATGGGAAGA

Sequence=1727;DNA;Homo sapiens

CCACGCGTCCGGCGCCCCCTCCCGGCCGCCATGTTGGCTGGTGTGTGGGTGTCAAACTGA
GCCAGACGCGGCGGTGGCGGCGGCTCCGCGGGCTACGGTCGCTCCCGCCTCTCGAGCGCT
GCCGGTGGCCGCAGCGGCGCACCCACGCCGGCCCGGAGGAGCAGAGTGCTAAGTGCTGGG
TGCTCACTGGTGATGAGGCAGATGAAGGTTACCAAACTTGTGGACAGGAGCCTCATATCA
GAGACGTGGACCTCACTGTAGCCTGGTCATGGCTTCCAGCTTTTCGAATCTGAGGCTCCA
AAGGAGGAAATGACCATTCAGGGATCTTACTCCAGCTTGATTACGGAGACTGAACCTTCA
TAGGGTGCGCACTTACCAAGGACAGGAAGGTTTCTCTGTTTGAAGGGCTTTAAACTTATA
ACAAAGAAAATAA

Sequence=1728;DNA;Homo sapiens

CGCGTCCGAGACAGTTCATACTGGAGACAAACCCTACAAATGTAATGAATGTGGCAAAAC
CTTTAAACGGAACTCAAGCCTCACTGCACATCATATAATCCATGCAGGAAAGAAACCATA
TACATGTGATGTATGTGGCAAGGTCTTTTATCAGAATTCACAACTTGTAAGGCACCAGAT
AATTCATACTGGAGAGACACCTTACAAATGTAATGAATGTGGCAAGGTCTTCTTTCAACG
TTCACGTCTTGCAGGGCACCGGAGAATTCATACTGGAGAGAAACCCTACAAATGTAATGA
ATGTGGCAAGGTCTTCAGTCAACATTCACATCTTGCAGTGCATCAGAGAGTTCATACTGG
AGAGAAACCTTACAAATGTAATGAATGTGGCAAAGCCTTTAATTG

Sequence=1729;DNA;Homo sapiens

NCCCCGCGTCCGCTGTTGGAGCAGTAGACTTCTCACATCTTTTTGTCACTTCATCGTTTG
ACTGGACAGTAAAGCTTTGGACAACTAAGAATAACAAGCCTTTGTATTCATTTGAAGATA
ATGCAGACTATGTTTATGATGTTATGTGGTCACCTACCCACCCAGCCCTGTTTGCCTGTG
TGGATGGCATGGGGAGATTGGATTTGTGGAATCTCAATAATGACACAGAGGTACCAACTG
CCAGCATTTCTGTGGAGGGTAATCCTGCTCTTAATCGTGTGAGATGGACCCATTCTGGCA
GAGAGATTGCTGTGGGTGATTCTGAAGGACAGATTGTTATATACCGATGTGGGAGAGATT
GCTGTTCCCCGCAATGATGAATGGGCACGGTTTGGCCGAACACTTGCAGAAATTAATGCA
AACCGAGCTGATGCAGAGGAGGAAGCAGCTACCCGAATCCTGCTTAGTTCCTGAAAAGGG
GAGTGTAACTAGTGGATTGGGAAAGGGTC

Sequence=1730;DNA;Homo sapiens

AGTAGGAACCAAGAAAACTTCTTTTGCCAACTTTACAGGATATCTGGTAAACTATTACAT
NGTCAGGCCAAACATGCTCCTTGCATTTTTGTTGGCTGAATNTGGGTACAGAGTGGTTCT
ATACGATGGTAATAACCAACTTGNAATCAAAGGAAGNATTCCAACAGAAACAGATAGGAN
AANGTCTTGAGAAGATATATNAAGGAATNTGTCACTTGTCACACNATGCCCGATCACCGG
GACACAAATTCCTGCAAGAAGGGACCACACCGGACTCTATTTTCCTACAAGNGCAGGAAA
CCTTGTTCATTCTAAGCATGGTTTCTGNTTGCCCAGGTATTCAAAAAA

Sequence=1731;DNA;Homo sapiens

ACCCACGCGTCCGGCTGCGTTGGGCTTGCGTGCGGCTCGCTAAGACTATGGCGTCCGGGC
CTCATTCGACAGCTACTGCTGCCGCAGCCGNCTCATCGGCCGCNNCAAGCGCGGGCGGCT
CCAGCTCCGGGACGACGACCACGACNACNACCACGACGGGAGGGATC

Sequence=1732;DNA;Homo sapiens

CCGCGTNCGTTTGTGTTGAATGGNTTGTATACTTCTTTACACAACCTATCCATTACTTAA
GGAATCTGCTCTTATTCTTCTACAAACTGNTCNGGAACAAANTGATATCAGAAATTNGAT
AAAAGAACTTCGAAATGNTTGAAGGAGTNGAGGAAGNTCATTGAATTNCATGTTTGGCAA
CTTNGCTGGAAGCAGAATCATTTGCCACTG

Sequence=1733;DNA;Homo sapiens

GTCGACCCCGCGTCCGGGCCCGTCTACAAGGNTTGTAGATAAAATAGAAACATACCTTCC
TTGAAAATGCAGAATAAATTTTTTAAAGGCAGGAAGGAAGTGTTTGAACCATGTGTCAAC
AAGCTTTACTGTCAAAGCAGGCTTTTGGTATGGGAAGAAAAATACTTATAAATACTNGTN

TABLE 2

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TTAATATTTGCTTTATTAAAATACATTTAAAATACAGCATTTTTAAATCTCTAAGCTCAA
CTTGAAGATATAAGAACAGTAAATTTGATAAAAATGAGAAATTACATTCCCATTTCTTTA
ACAATTTGTAAATTCCAATTATCCTGAACATTTAACACCATTTACATATTTTATTAATCA
CATTTTCTTAAACATTTGATAAGAGATTTAATATTTTGATCCAACTACCA

Sequence=1734;DNA;Homo sapiens

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GCAGGAGGGAGGGAGGGACAGATGGCGGTGGGTTTTTGTATCTGAATTTGCTGTCTTGAA
CATAAAGAATCTATCTGCTGTTGAAAAAAAAAAAAAAAAAAAGGNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNTCACAAATAAAGCANNNNNNNNNNNNNNNNNNNNNNNNNNGTTTGTCCAAACTCATC
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TTTTTC

Sequence=1735;DNA;Homo sapiens

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AAGTGAGGCGGGAGGCGACTCGGACCTTTCCCTGCATTTCGTTTCGGCCAGTGCCGGGGG
CTACCCGCCCTGGGGCCTGGGATCCTTGGGGCCCGTGAGGCCCACTCTTAGCGGCCGGGG
CCTACCGCGGCCCGCCGCTGGCCCTCATGAGGCATAGCCTGACCAAGCTGCTGGCAGCCT
CGGGCAGCAACTCCCCAACCCGCAGTGAGAGCCCGGAGCCGGCTGCAACTTGTTCGCTGC
CCTCTGACCTGACCCGGGCTGCAGCGGGGGAGGAGGAGACGGCGGCGGCNCGGATCTCCC
GGCCGCAAGCAGCAGTTTGGCGACGAAGGAGAGTTGGAAGCCGGGAGGGGGGGAAGCCCG
CGGCGGCGTGGCCGTGCGCGCGCCCTCCCCCGAGGAGATGGAGGAGGAGGCGATCGCCAG
CCTTCCGGGGGAAGAGACGGAAGGATATGGACTTTTTTTCTGGGCTGGA

Sequence=1736;DNA;Homo sapiens

ACGCGTCCGGCCAGGCAGTGATGGAATCCCGGGGTCNGCAGGAGAGAAGGGTGAACCAGG
TCTACCAGGAAGAGGATTCCCAGGGTTTCCAGGGGCCAAAGGAGACAAAGGTTCAAAGGG
TGAGGTGGGTTTCCCAGGATTAGCCGGGAGCCCAGGAATTCCTGGATCCAAAGGAGAGCA
AGGATTCATGGGTCCTCCGGGGCCCCAGGGACAGCCGGGGTTACCGGGATCCCCAGGCCA
TGCCACGGAGGGGCCCAAAGGAGACCGCGGACCTCAGGGCCAGCCTGGCCTGCCAGGACT
TCCGGGACCCATGGGGCCTCCAGGGCTTCCTGGGATTGATGGAGTTAAAGGTGACAAAGG
AAATCCAGGCTGGCCAGGAGCACCCGGTGTCCCAGGGCCCAAGGGAGACCCTGGATTCCA
GGGCATGCCTGGTATTGGTGGCTCTCCAGGAATCACAGGCTCTAAGGGTGATATGGGGCC
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GTGATCAAGGCGATCAAAGG

Sequence=1737;DNA;Homo sapiens

AAGCTATTGTCACACCTTTGAAACCAGTTGACAACACTTACTACAAAGAGGCAGAAAAAG
AAAATCTTGTGGAACAAGTCCATTCCGTCAAATGNTNGTTCTTCCCTGGAAGTTGAGGCA
GNCATATCAAGAAAAACTCCANCCCAGCCTCAGAGANAGATCTCTTAANGCTTTCTGCTC
AGAAGGATTTTGGAACAGAANAGAAAAGCATCATGGTAANAAATGAAAGCCAAGAGATGT
GCCCACTCCTGTTAATTCATTCGATTGAAAATTCATACCCCTTCTAAGAAAAAATGAAAA
GTTTTNTAAACAACAAAAAAGAAAGCCCNNNAGGCAAGGAAAGGGCANGTGCTTCATNAA
GNATACCTGNTGNAAAANAGGAAATGGCATCTTCCNCCAAGAAGAAAAAGCCCAANGGGT
TTGTACCATACCTGGTGCNCTTTGTATGCNCACCCTGCCAAAGGCATAAAGGTTTTCTAA
AAAAAGTTACCTTGAGNGAAGCCAANGAAGCCTGGGAGAAAANAGTANTGNAAAAAATGC
AAGCNAAAGAAGGNTGGGTGGGAAG

Sequence=1738;DNA;Homo sapiens

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AAATCTCTTGAAAATACTGAAATCAAAAGGTTAATGATTTTTTGTTCATTCTGATTTGTC
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ATAGTGAAACCCTCATCTCTACTAAAAGTTGGCAATTAAATCTGAATTTACAGATACAGA
TAACAGTTTATCAGAAATCATATTTTTCCTGAAGAAAATTTAAAATTAGGAGTTGTGGGC
CTGGTGCGGTGGCTTACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGAGCAGATCA
CTTGAGGTCAGGAGTTCGAGACCAGCATAGCCAACATAGTGAAACCCTCATCTCTACTAA
AAGTACAAAAATTAGCCAGGTGTGGTGGCCGTGTGCCTGTAGTCCCAGCTACTCGGGAGG

TABLE 2

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CTGAGGCGGGAGAATCGTTTGGAACCCG
Sequence=1739;DNA;Homo sapiens
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GGTCCCCAGCGCTGTCTGCCCGAGGATTTGCCTGAAGGCTGCCCCCAACTCTGCACCCGC
CCCCCGAGGGCCACCGAGGACCATGACTAAGACAGATCCTGCCCCGATGGCCCCGCCACC
CCGAGGAGAGGAGGAAGAAGAGGAGGAGGAGGATGAACCCGTCCCCGAGGCCCCCAGCCC
CACCCAGGAGCGCCGGCAGAAGCCTGTTGTGCACCCCTCGGCACCTGCCCCCCTCCCTAA
GGACTACGCTTTCACCTTCTTCGATCCCAATGACCCGGCGTGCCAGGAGATCCTGTTTGA
CCCTCAGACCACCATCCCCGAGCTGTTTGCCATTGTGCGCCAGTGGGTGCCCCAA
Sequence=1740;DNA;Homo sapiens
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CCCCTNCATCTTCGGNTTTGCACACCCCGCTTTCCAGCGCGGAGTCCGCGGCGGGTAGGG
CNGGCGTCNCGTGCGTGACGTCATCCAGCGGCGCCTNGCGAGGCTNCAGTGGCCTTGACC
TCCCGCGGNGTGGGAGGCTGCGCGGCGATGCTGCANTTTCGTCCGGGCCGGGGCNGCGGG
CCTGGCTT
Sequence=1741;DNA;Homo sapiens
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AAGCAGTTGGCTTGTGGGACTCTGAGAGATGCTGCTGNCCATGACATGCGGGAATTATCA
TGATCAACTACCCAGCTTGGATTTCACCCAGTGGCCAACTAGCTTTGTGTGGGAGACGGC
AAGGGTTGGATTTTTCAAAAGAGTAAACCAGACCCGTGACCAAGGTGTNAACTAAGAAGT
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TTAATCTTCATGGGATCC
Sequence=1742;DNA;Homo sapiens
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TNTCCTGTCTATTCCCAGNGNGGGGCGTGGCTGACACTAAAGACTNTGTANNCATCAACC
CGAGTGCANNTTCNATGGAAAATGAAGGTTGCACGTTTTCAAAAAATACCTAATGGTGAA
AATGAGACAATGATTTGCTGTATTGNCANCCAAAAAAAGCAAAGGGNATTNCCANTCATT
GAAGNTGCAAGCATTCTNCAAGCTGATCTTCNAAATGGGTCTAAACAAAATGTNAAGNTA
AGTTCNTNAGGCNAGCCCTTTCATGGTTTNGAAATGAGNTTTCGNTTTTTATGTGAAAGN
TGGAGGCCNCCNTGTNGGGAAAGAAANGNGTTTNTTTTCNCCAGGTTTTNAAAA
Sequence=1743;DNA;Homo sapiens
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CAAAATAACTGTGAATGACACACCTTGCTGTAAATGAACTGTGCTAACCCTGACTGTGGG
CTTGAGAACAAAGATGAACTCTAGAACTCTAGCAGCCTAACTGCTGCTTCTCAAATAACT
GTGTGAACAGTGAGATATTACTGTTTGTTTCTAAAAATCCTACTGTGCCCAGTTTCCTTC
ACTACATGCCCTGCATTTTTTATTTAAATATTTAGCTGTAGCGCCATCAGATATGGATGC
CTTCTAACAATTGCTGTTTGTAAAATAAATCAGGATGGTAGAAAGTGATTATATGGAAAA
TTGGAACCTGGATGAGACCTTTTCGTTGAATTCTGAAGAGTAATGATGTGAAAATTGATA
CAGGGCAAGAGATGATTCTTTTGGGTTTTCTTCTACTTCATGTCCAGAAGAGTAAGAGGG
GAAAA
Sequence=1744;DNA;Homo sapiens
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TAAGAAGTTAACCTAGGGCCGGGCATGGTGGCTCATACCTGTAATCCTAGCACTCTGGGA
GGCCGAGGCAGGAGGATCCCTTTAGCCCAGGAGTTAAAGACCAGCCTGGGCAACATAGGG
AGACCCTGTCTTTTTTTTTGGGCAGCGTGGTGGGGGATAAATAAATAAAAGGAAAAAAAAC
TTAGCCTAGAATTAGAATTAATTTAATTGAATTCATCTAAAGATGTCTCTGGTGATTTTT
ATATGTTCCGCTATATAATTGATGCTTTATAGTTTTATCATAATCCAACAACTTCAGTTA
TATTTAATTATTGGTAANGGAGTTTAAGACTNGAAAGACTAGAGTGCTTTCTAGTCCAAA
TAGAGGGTCANGTGAAACCAGCTTTTTGACATCAAGATTTTCATTTTGAGAAGGGANAAG
CCTGTGGGACTGGGCTTAAA
Sequence=1745;DNA;Homo sapiens

TABLE 2
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GTCCGGAGAAAACTGCAACTTGCCCAGNTCCTCTTCTCCACCAATAGATGCAGCATCCGC
AGAGCCCTATGGCTTCCGTGCCTCAGTGTTATTCGATACAATGCAACACCATCTAGCCTT
GAATAGAGATTTGTCCACACCTGGCCTGGAGAAGGACAGTGGAGGGAAGACACCTGGTGA
CTTTAGCTATGCCTATCAAAAGCCTGAGGAAACAACCAGGTCCCCAGATGAAGAAGATTA
TGACTTGAGTTATGAGAAGACCACCCGGACCTCAGATGTGGGTGGCTATTACTATAGAAA
ATAGAGAGAACCACAAAATCTCCAAGTGACAGTGGCTACTCCTATGAGACCATTGGGGAA
AACTACCAAGACCCCTGAAGGATGGTGACTATTCCTATGAA

Sequence=1746;DNA;Homo sapiens
CCGGCNTAGGCGGGGGGAACACGCCGCCTGCGCTCTCTTGGGACCCTAGATTTGGGGGAG
GAGGTAACGAGAGGCGGAGAGGGTGGCTCCTCAAATATACACCCCTCCTGTCCTCCGCCA
CCCCACCTTTGATTTCTCTTCCCTCAACCCAGCACTCCAGCCCCACCCCAGGGTCAATTT
TTGCCCCCTTCCATCTGAGCAGTGTTACCAGGCCCCAGGGGGACCGGAGGATCGGGGGCC
GGGTGGGGGGTCCCATGGAGTACTCCAGCACACGCAGGGGCTCCCTGCAGACAGGGGGGG
CCTTCGCCCTGGAAGCCTGGACGCCGAGATAGACTTTCTGAGCAGCACGCTGGCCGAGCT
GAATGGGGGGTCGGGGTCATGCCGTCACGGCGACCAGACCGACAGGCATATGAGCC

Sequence=1747;DNA;Homo sapiens
TCCGATTNNGCCNAGGGTTGCAGTTTGTAGACCCCTGATCTAGACCCTTAAGTAGCCTTG
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AGTCTCTCTCTGGAGCCCAGGTTGGAGTACAGTGGCAAGATCTTGGCTCACTGCAACCTC
CACATTCCGGGTTCAAGTAATTCTCCCGCCTCAGCTTCCTGAGTAGCTGGGATTACAGGC
GTGTGCCACCATGCCAGCTTTTTTGTATTTTGTATGTTAGCCATGTTGGCAAGGCTGGCC
TCAACCCCTGACCTCAAGTGATCTGCCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGG
AGTGAGCCACCATGCCCGAACCCCAACTTATGTTTGACTTACAATGTTTGGACTTTATGG
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ATCTTTTTATTTT

Sequence=1748;DNA;Homo sapiens
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CCAGAGCCGAGCCAAGCGTGCCCGCGTGTGTCCCTGCGTGTCCGCGAGGATGCGTGTTCG
CGGGTGTGTGCTGCGTTCACAGGTGTTTCTGCGGCAGGCGCCATGTCAGAACCGGCTGGG
GATGTCCGTCAGAACCCATGCGGCAGCAAGGCCTGCCGCCGCCTCTTCGGCCCAGTGGAC
AGCGAGCAGCTGAGCCGCGACTGTGATGCGCTAATGGCGGGCTGCATCCANGAGGCCCCG
TGAGCGATGGAACTTCGACTTTGTCACCGAGACACCACTGGGAGGGTGAACTTTTNCCTT
GGAANCGTTTTGCGGGGGCCTTGGCCTGCCCAAGCTNTACCTTTTCCAACGGGGCCCCGG
CGAG

Sequence=1749;DNA;Homo sapiens
GGCGNAGCTCGNCTTCCTCCNCGCCCAAGTTCCGGCGCCGCTCTTGCGGGAGCGTGCCGC
ATCACCCCGGGGGCCCCTACGCGAGGATCTCCGGGGCCGTTGGCAGCAGCCTG

Sequence=1750;DNA;Homo sapiens
TCACCCCGCGTCCGGGCGGGCGTGGGGCGGTGGGAGGTAGTGAAGAAGGGTCGGCGGCCT
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GCAAACNGAGTGTGGAAATACNACCTGACCCCTGCAATCCAGACCACAAGCACCCTTTAT
NAGCGGNGCTTTNAGAATATCATNAAGNGGNTTTAATAAGGAGCAGGTCCCACCCCCTGC
TGTGGAA

Sequence=1751;DNA;Homo sapiens
GTCGACCCACGCGTCCGGGAGCAGAGTCGACTGGGAGCGACCGAGCGGGCCGCCGCCGCC
GCCATGAACCCCGAATATGACTACCTGTTTAAGCTGCTTTTGATTGGCGACTCAGGCGTG
GGCAAGTCATGCCTGCTCCTGCGGTTTGCTGATGACACGTACACAGAGAGCTACATCAGC
ACCATCGGGGTGGACTTCAAGATCCGAACCATCGAGCTGGATGGCAAAACTATCAAACTT
CAGATCTGGGACACAGCGGGCCAGGAACGGTTCCGGACCATCACTTCCAGCTACTACCGG
GGGGCTCATGGCATCATCGTGGTGTATGACGTCACTGACCAGGAATCCTACGCCAACGTG
AAAGCAGTGGCTGCAGGAGATTGACCGCTATGCCAGCCGAGAACGTCAATAAAGCTCCTG
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Sequence=1752;DNA;Homo sapiens

TABLE 2

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NCCCCGCGTCCGCGGACGCGTGGGCGGAGCTGCTGTGCAGTGGAACGCGCTGGGCCGCGG
GCAGCGTCGCCTCACGCGGAGCAGAGCTGAGCTGAAGCGGGACCCGGAGCCCGAGCAGCC
GCCGCCATGGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGTCATCCTGCCGGAA
ATTCAGAAGCCAGAGAGGAAGATTCAGTTTAAGGAGAAAGTGCTGTGGACCGCTATCACC
CTCTTTATCTTCTTAGTGTGCTGCCAGATTCCCCTGTTTGGGATCATGTCTTCAGATTCA
GCTGACCCTTTCTATTGGATGAGAGTGATTCTAGCCTCTAACAGAGGCACATTGATGGAG
CTAGGGATCTCTCCTATTGTCACGTCTGGCCTTATAATGCAACTCTTGGCTGGCGCCAAG
ATAATTGAAGTTGGTGACACCCCAAAAGACCGAGCTCTTCTTCAACGGAGCCCAAAAGTT
ATTTGGCATGATCA

Sequence=1753;DNA;Homo sapiens

CGCGTCCGCGCTTCTGTTACGGCCAGTGCAACTCTTTCTACATCCCCAGGCACATCCGGA
AGGAGGAAGGTTCCTTTCAGTCCTGCTCCTTCTGCAAGCCCAAGAAATTCACTACCATGA
TGGTCACACTCAACTGCCCTGAACTACAGCCACCTACCAAGAAGAAGAGAGTCACACGTG
TGAAGCAGTGTCGTTGCATATCCATCGATTTGGATTAAGCCAAATCCAGGTGCACCCAGC
ATGTCCTAGGAATGCAGCCCCAGGAAGTCCCAGACCTAAAACAACCAGATTCTTACTTGG
CTTAAACCTAGAGGCCAGAAGAACCCCCAGCTGCCTCCTGGCAGGAGCCTGCTTGTGCCG
TAGTTCGTGTGCATGAAGTGTGGATGGGTGCCTGTGGGGGTGGTTTTTAGGACACCAGAA
GAAAACACAGTCTCTTGCTAGAGAGCACTCCCTATTTTGTAAACATATCTGCTTTAAGGG
GGATGTACCAGAAACCCACCTTACCCC

Sequence=1754;DNA;Homo sapiens

CCCGCGTCCGTAGATTAAATTATGCAAGTTGCAAGAATGTAGTAACTCTGATCAGCTACA
AGGAAAGGAGGAAAGAGTAAATGAAGAAAGTCATCTAACTGAAAAGGAATATATAGAACA
TTGTAACACCCCTACAACTGATTCTGATTCATCTATAGCAGTTAAAGCACTACAAATAGA
TAGCTTTGGTTTAGTTACATGCTTTCAACAAGAGTCTCTTGATGTTTCTCAAATGATACT
TGGAAAATCTCAGCAACCTGAGTCAAAAATGCAATCTGAATTTATAAAAGAAAAAAGTGC
TACTTGTTCAAATGAGGAAAAAGGTAACTTAAACGAGGTCAGTAATAACTGAAGAGAAAG
AAACAGATGGGAGATCACCCTATCTTCATTACTGAACCAAAACTACCNGTTCACAATATA
CCTGGATTCGACAGCATAAAAGAAACC

Sequence=1755;DNA;Homo sapiens

GCGTCCGGCAGCTGAAAGGGGATTTGGGCCCGGAAGATCCGAGTCCATCCGCGGCGGGGA
GAGGGCAAGCGGGACCGGTAGGGGCCGGAGCAGCGGCGGCGGCGCTCGGACTGTCCCATC
CGCCCCGTATTGAGGCGCTGGGAGCGGCGGGGCGACAGGAAAGCGATGGTGAAAGCGGGG
CCGTGAGGGGGGCGGAGCCGGGAGCCGGACCCGCAGTAGCGGCAGCAGCGGCGCCGCCTC
CCAGAGTTCAGACCCAGGAAGCGGCCGGGAGGGCAGGAGCGAATCGGGCCGCCGCCGCCA
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Sequence=1756;DNA;Homo sapiens

GTCGCCCCGCGTCCGCACAGTTGATTCTGAATTTTTAAGGCTTTCCTAATAGGCTGATCA
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ACTGATTCACATTTTGACAAAAGAGAGAAAATACAAAAATGAGTTTTGCAAATGTAATAA
CTTTTTCTGCATATAGAACTAAATAATTGAAAAATATGGGCTATAGTTCTCAAAGGTAGA
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TGGAAAATAATTAGGCTGATTTTGCAGGTCTTCATTGTTAGAGATTCTGAAGTATTTACT
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Sequence=1757;DNA;Homo sapiens

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GAATTGTTTATCCGTGATTATGGAGAGATTTTTAATGTCCAGTTACCGGATAAAGAAGAA
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Sequence=1758;DNA;Homo sapiens

CCCCGCGTCCGGCCTTTAAAAGAAGACTTGAATTCCTATGGAACAATAAAGACACAGCAG

TABLE 2
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CCGACCGTGGTGAAGCTGTGATATACGGAGACAGGCTGGTACAAGGGGGAGTCATCCAAC
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GTCCTGAACAGAGTCCTCCTGCTATTAATGCAAACACTCTCCAACAGGAAAGATATAAAG
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CCCTACATGGAATCAT
Sequence=1759;DNA;Homo sapiens
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TATACAAGGTGGAGAACAAGCCAGCCCTCAGCTCCAATGAACAATTGTGCTTCTTGGTCA
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TGTCTCCTGAAGACTTCCCTTAAAATTAGCTCTGAGTGAAAAATCAAAAGAGACAAANGA
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CCTCTGTCCTTTGGGGGTGCCAGCCCCACACAGTGCACCCCCATTGAATTTGACAGCAAA
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TTTAAG
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Sequence=1771;DNA;Homo sapiens
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Sequence=1772;DNA;Homo sapiens
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Sequence=1773;DNA;Homo sapiens
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CAGGACACGATGGGGAAA

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Sequence=1783;DNA;Homo sapiens
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Sequence=1788;DNA;Homo sapiens
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Sequence=1789;DNA;Homo sapiens
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AATGTCANNCAAGATCCGAGTNCCATTTTTACGTCAGGTTGTTCCCATTAGTAAAAAGGT
AGC

TABLE 2

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Sequence=1790;DNA;Homo sapiens
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CTTG
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Sequence=1792;DNA;Homo sapiens
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Sequence=1824;DNA;Homo sapiens

AGTCGACCCACGCGTCCGCCCACGCGTCCGCCTTCTTCTGGGCACTGACTGCCCTTCTGG
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CCACAGGGGAGTTAGGATCAGGCCTCCAGGTGGGAGCCCCAGGAGCAGAGGAAGAGGTGG
AAGAGTCCTCACCACTGCAAGAGCCACCAAGCCAGGCAGCAGGCACCACCCCTGGTCCAG
ACCCTAAGGCCTATCAGCTTCTATCAGCCCGCAGTGCCTGCCTGCTGGGCCTGTTGGCCG
CCACCAACGCGCTGACCAATGGCGTGCTGCCTGCCGTGCAGAGCTTTTCCTGCTTACCCT

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ACGGGCGTCTGGCCTACCACCTGGCTGTGGTGCTGGGCAGTGCTGCCAATCCCCTGGCCT
GCTTCCTGGCCATGGGTGTGCTGTGCAGGTACACAAGGACCCCCAGCCCCTGTGCGGGTG
GAACTCA

Sequence=1825;DNA;Homo sapiens

TCGACCNCGCGTCCGGTCTTCGCAGGTGGCCCTCGGGCCCGCAGCCGCTGGGTAAGGGTG
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TTAGCACATTTCCCTCACCAGGTGCTGGCTGGCCTAATAACTGGCGCTGTCCTGGGCTGG
CTGATGACTCCCCGAGTGCCTATGGAGCGGGAGCTAAGCTTCTATGGGTTGACTGCACTG
GCCCTCATGCTAGGCACCAGCCTCATCTATTGGACCCTCTTTACACTGGGCCTGGATCTT
TCTTGGTCCATCAGCCTAGCCTTCAAGTGGTGTGAGCGGCCTGAGTGGATACACGTGGAT
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Sequence=1826;DNA;Homo sapiens

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CCCAATGAAGCAGAGTTATAGGGATAGATTTATAGCTGGCAGAGTGGTATCAAAGGAGAA
AAACAGTGAAAAAGCCAATTTCACTGGTTCGTTCAATCCAGCTTGTTGCTAATATTAGTT
ACCCTTGTTTTAATGACAGAGAGTGGCTGGAATCTGTAGCTAGGGGAGGGGCAACACTGT
TAGATGTGAGGAAAGGAAGTGCCAAAAATGCCTGGACAGATGGCTTGTCCCAAGGCCAGG
ACACACACTTTAAAATCCAACATTCACCTAAGCAAGTAATTCTTAAAGATCTTACAGAAA
CGCAGAGTCAATTCAGGTTTATAAAGGAAGGCTTNAGGGGAGAGAGGAAGGCCTGGGGGG
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Sequence=1827;DNA;Homo sapiens

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GCTGCCCTGGAGACTCGGCTCCTGCATCCAGGCGTCAACACGTGTGACATCATCACCCTC
TATATCTCTGCCATCAAGGCGCTGCGCGTGCTGGACCCTTCCATGGTCATCCTGGAGGTG
GCCTGTGAGCCTATCCGCCGCTACCTGAGGACGCGGGAGGACACAGTGCGGCAGATTGTG
GCTGGGCTGACGGGGGACTCGGACGGGACAGGGGACTGGGCTGTTGAAGCTGTCCAAGAC
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Sequence=1828;DNA;Homo sapiens

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CCAACCTCCCAGGTTCAAGCAATTCTCTTGCCTCAGCCTCCCGGGGTAACTGGGGATTAC
AGGCGCGCACCACCACGCCCAGCTAATTTTTGTGTTTTTAGTAGAGATGAGATTTTGCCA
TGTTGGCCAGGTTGGTCTTGAACTCCTGACCTCAAGTGATCCACCCACCTCGGCCTCCCA
AAGTGCTGGGATTACAGGTGTGAGCCACCGTATCTGGCTCTCATATTTTTTATATACAGA
TTGAATATCCCTAATTTGAAAACCTGAAATCTGAAATCTTCCAAAATCCAAAACTTTTTG
AGCAGTTACATGATATTTGAATGAACTGCTCATAAGAA

Sequence=1829;DNA;Homo sapiens

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CCTTCGGGCTCCTTGTTGCGCGCTGNTCGCGCTGCTGCTCCTGCTTGACGCCGCCGGGGG
CCCCTCGCCAGCTGCTGGGTCCTGTCTCTGCTGTGCTGACAGAGCTGCGNTGCACNTTGT
TAACGCGTTTACGCTGAGAGTAAAACCCCAAAACCGATTGGTAAACTGCAGGTTGTTTCC
CCGCAGGCCTCGCAGTGCTCCAAGGTGGGAAAGATGGTANGCTCTCCCTTGAAAGAACCG
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Sequence=1830;DNA;Homo sapiens

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GTTGACCTTTGCCAAACACTTTACAGTTCTGGAGGAGGAGGTAACATAGATGCCTGGGCC
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TABLE 2

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TGCTGGCTCCCATCTCCCTCCCATTTGCAGACCAGGAAGGAAGAGCAAGCTGTACAAAGG
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CACCTGCAGCCCAGGCCTTCCTCCCCGG
Sequence=1831;DNA;Homo sapiens
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AAAATTCTAAAGATTTGGGTTATATTTTCAACTTGGGGGACAGAGAGAAATGGAGAGCAG
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Sequence=1833;DNA;Homo sapiens
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CACAGTATACCAAATGGAAGAGACCAGCACCTGGGCGTGGACCCAACAGAGCATTTATTT
GAGAATGGCAGTGAGTTTCCCTCAGAGCTGGAGGACGGGGACGACCCAGCAGCCTACGTC
ACCAACCTGTCATATTACCACCTGGTCCCCTTCGAGACAGACATTTGGGACTGAACCTCT
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Sequence=1835;DNA;Homo sapiens
CGTCCGCTCCTGAGTAGCTGGGATGACAGGCGTGCACCTGGCAGCTTTTTCAAAGTGTTG
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GTAAGAGCCAAGGGGTAGAAGTGGCATAAATGTCTAAAGCAGGGAAGTGACAGGGACTTT
CATTGTTCTTGGCTGAGGAGAAGCGGGAGTGGCTGATGGAAGCACCTAAATGATGCCTTT
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Sequence=1836;DNA;Homo sapiens
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GACAGGCGCTGACCTTTTTTCATCACCAGCGCATGACCGTGGAGAAAACTGTGTGGGCAA
ACGCGCTGCATAAGCGTATTCACCGGAACAATCAGTACGCCACGCTGCATCGTCGGTAGC
TGGTAAAGGGTGGAAAGGCGCGAGGAGATAATGTCCTGATGAGGCGAAAAACTGTCGTAG
GGAAGAGTTTCCCAGTCCGCCAGATTCATCACCATTTGATCGGTAAACTGGCTGATTTCA
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CGTTCGGCA
Sequence=1837;DNA;Homo sapiens
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TGAACACTTCCTTTGGGCCCTTGGAGGGAAAATCCATATTTTTACTAATTACACTTTTTT
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AAGCCCGACGCAGTTGCTAAAAATCTTGCTGCACTGTTGAATACTAATAATGCAACATTT
ATTGGATGTTTTTGCATTTTGATGACCTTCATGATTCATTTATAAGTCTTTGTAAGTGCT
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TATTCTCTACATGATATATTTTTTT
Sequence=1838;DNA;Homo sapiens
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TGGAGTGGTCTTCAATCATAGTGAAGAATTTAAAGAGAAAGTCAATTGTATTGGCATTTT
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CATATGCTTTCTACTTCTTGTTCTTATTATGAAATTATGAATTTGAAGCCTCTGAAATGG
TGATCAGTTTTCAACATCTTTCAAAAACAAAATTACTA
Sequence=1840;DNA;Homo sapiens
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CAGGAGTTCAAGACCAGCCTGGGCAACATACCAAGACCCCCGTCTCTTTAAAAATATATA
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NNAAAAAAAAAAAAAAA
Sequence=1841;DNA;Homo sapiens
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CATCAATTAAGCAGGCTCTTTTCAATTGACTGATGCTGGGGCCTTCAGTTTTATTCTCAG
TATAGATTGCCAGTATTGTTAAGAGTATCCAAAGGCCTTTCTAGATGGAGACAGAATAAC
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TGTCCTGGGCAGCACCATGAATGCCTTTACCAAGACATGCCAAGTTGGATCCCCCGAATG
AAGCAAGAGTGGCTTGTGGGTGTGACCCTTGCTCCCTGCTACACAGAAGCATCGCAAGGG
CTGCCTGTGTNGGTTTCCAGATGAAGGGTCTTGGGTCCCGGAAGCTTTGTGGTTGAGAGC
TCAAGTGGGACC

Sequence=1843;DNA;Homo sapiens

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TGCCCTCCAGCGGAGACGCAGCTCCTCAGGCGCCCGGCGGTATTTGTTGGGTCGGCGGCG
TCAGGGATTCGCAGTGGCCTGTGGTCGGCGTCGTCCGGCCACTGGTGCGCCCCCGCGGCA
GGCAGAGCTCACGCTCCTGTCCCCCGGCTGGTCCGGGGTCTGGGCGCCGCGTCGACGGCG
GCTCCGCAGGACGCGCAGACCGGGCCGCAGCCCATGCC

Sequence=1844;DNA;Homo sapiens

NCCCCGCGTCCGATTTAAATGCCCTAAATTTTAAATTCATACCTTTCCATGATTCAAAAT
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TTTCCTTTCCAGAAGCAACTGCTACTGCCTTTCATTCATATGTTCTTCTAAAGATAGTCT
ACATTTGGAAATGTATGTTAAAAGCACGTATTTTTAAAATTTTTTTCCTAAATAGTAACA
CATTGTATGTCTGCTGTGTACTTTGCTATTTTTATTTATTTTAGTGTTTCTTATATAGCA
GATGGAATGAATTTGAAGTTCCCAGGGCTGAGGATCCATGCCTTCTTTGTTTCTAAGTTA
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Sequence=1845;DNA;Homo sapiens

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CCAGCGCCCCAAGTTGGAGAAGAAGGATGCCAAGGAGATCCCCAGTGCCACCCAGAGCCC
CATCAGTAAGAAGCGGAAGAAAAAGGGATTCTTGCCAGAGACGAAGAAGCGCAAGAAACG
CAAGTCAGAGGATGGCACGCCAGCGGAGGATGGCACACCTGCAGCCACCGGCGGGAGCCA
GCCCCCCAGCATGGGCAGGAAGAAGAGGAACAGGACAAAGGCTAAGGTCCCAGCCCAGGC
AAACGGGACGCCAACCACCAAGAGTCCAGCCCCTGGCGCCCCCAC

Sequence=1846;DNA;Homo sapiens

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TAATAATTTTTAAAAAACATAAAAAAAAAAATCCAAAGCTGCTCTCGATAATAGTCAACAT
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TAATGTTTGTGTATTTCATGTATAATTGTGATCTCAATTATAAAAGTTTAATTCAGCATG
TCTTTGAGCCAATATAATTACTGCACACCCACTAAATTGGGATCAGCCATTATAAATAAT
GTAGTTTTAGAATAATAAAACATGACACATATATATATATATAAATATATAGTATATATT
GGCACATCGGTGAAAGTTTAATATGTGCAGGAAGGTTTTTTTCTTTCTTCAAGTTAAAAA
TTATTTTTTGCCATATGTAATTTTGGTGTTGCAGGCTGGTCGAGAGGATAAAAAATGGAT
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TTCCTTTTT

Sequence=1847;DNA;Homo sapiens

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AATTATAAATATTTGCAGTAAATATTTTCCTTATAATACTGTTTTGACCCCATTTAAAAA
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GTAGACCTTATTCTTGTCCTTCTTTAGAAGAGTAAAGATTTGTCCTAGGGAAGATGGCTG
ACTTCGGTTCCCAACATGCCGTATGCATTTAGACTGTAGCTCCTCAGCCCTGTGGACACA
AAATTTGGACAGCTTATTAGGNTACCGTTAGCAATGCTGGACCGGTTTCTTCAACACTAA
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Sequence=1848;DNA;Homo sapiens

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GGCCAAGAAGACAGNCACCACGAGGACGGGGAGAGCGGCTCGGAGGCCAGCGACTCTGTG
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Sequence=1849;DNA;Homo sapiens

TABLE 2

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Sequence=1850;DNA;Homo sapiens
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CTTCTGTGTTTGAACTGAAGTCTGTATTGTAACTATGTTTAAAGTAATTGTTCCAGAGAC
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Sequence=1851;DNA;Homo sapiens
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TTCTCT

Sequence=1852;DNA;Homo sapiens
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CGAGCCGGAGGAGCCGATCACTTTCTGTGAGGAAGCCTTCGTGTCCCACTACCGCTCCGG
AGCCATGAGGCAGTTCCTGCAGAACGCCACACAGCTGCAGCTCTTCAAGCAGTTTATTGA
TGGTCGATTAGATCTTCTCAATTCCGGCGAAGGTTTCAGTGATGTTTTTGAAGAGGAAAT
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Sequence=1853;DNA;Homo sapiens
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Sequence=1854;DNA;Homo sapiens
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CTACCCAGTCTTTCTTTGAAGACTTTATCATCCTATTTTCTGAATCCAGTGGCTGACTTT
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AGCAACTGTGCGTTAATAATGAAACACTCTTTTTTTCTAATCCAAGGAGGGTTTCATACT
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TTGTGCCAATACTCAGATTCAATACTGAACTACTTTCTTGCATTGGAATTCAAATTCCAA
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Sequence=1855;DNA;Homo sapiens
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CAGCGGCAGCGGAAAACGGACAATGGGTGGATTCGGGTCCAGATTCTGGTAGGAGGGAGT
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TABLE 2

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GCTGGCGGGGACAAAAACCAGAGGCCGGGGAAGGCGCCGGTGGGAGGCAAGGCACGGATG
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CTCAGCTTTCTCATCTGTACGGTTGGGACAAGTACAGTAACCCTCTCCCGTCAAGACGGG
CC

Sequence=1856;DNA;Homo sapiens

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CGTGGACGAGTGCCTGGACGAGTCCAACTGCCGGAACGGAGTGTGTGAGAACACGCGCGG
CGGCTACCGCTGTGCCTGCACGCCCCCTGCCGAGTACAGTCCCGCGCAGCGCCAGTGCCT
GAGCCCGGAAGAGATGGGACGTGGACGAGTGCCAGGACCCGGCAGCCTGCCGCCCTGGCC
GCTGCGTCAACCTGCCGGGCTCCTACCGTGNGAAGTGTCGCCCGCCTTGGGTGCCCGGGC
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Sequence=1857;DNA;Homo sapiens

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GGCAGAGGAGCTAGTGAAGGACAACGAGCTGCTCCCACCACCTTNTCCCTCCTTGGGCTC
CTTCGACCCCCTGGCTGANCTCACAGGAAAGGACTCAAATGTCACAGCATCTCCCACAGN
CCCTGCATGCC

Sequence=1858;DNA;Homo sapiens

ACGCGTCCGGAAGGGTGTTACATGTGTCTCTTCAATACCTTTGGTTTTGGGAAGATCTCA
GGAACGGCCTGCCTCACCGTCTATGTACAGCCCATAGTATCCCTTCACTACAAATTCTCT
GAAGACCACCTAAATATCACTTGCTCTGCCACTGCCCGCCCAGCCCCCATGGTCTTCTGG
AAGGTCCCTCGGTCAGGGATTGAAAATAGTACAGTGACTCTGTCTCACCCAAATGGGACC
ACGTCTGTTACCAGCATCCTCCATATCAAAGACCCTAAGAATCAGGTGGGGAAGGAGGTG
ATCTGCCAGGTGCTGCACCTGGGGACTGTGACCGACTTTAAGCAAACCGTCAACAAAGGC
TATTGGTTTTCAGTTCCGCTATTGCTAAGCATTGTTTCCCTGGTAATTCTTCTCGTCCTA
ATCTCAATCTTACTGTACTGGGAAACGTCACCGGAATCAGGACCGAGAGCCCTAAATAAG
TCACACAGCACCCTTGAAAGGGGATTCCTGGNCTACTTGGATTTGGCACAAGAGAAAAAG
CAGGAGGGAAAGG

Sequence=1859;DNA;Homo sapiens

GCGTCCGCTAGTTCTAGATCGCGAGCGGCTGCCCTTTTTTCTTTTCTTTTTTTTTTTTTT
TGAGACACAGTCTCACTCTGTCACCAGGCTAGAGTGCAGTGGCACGATCTCAGCTCACTG
CAACCTCTGCCTCCCAGGTTCAAGTAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGAC
TACAGGCACGTGCCACCACGCCCAGCTAATTTTTGTATTTTTAGCAGAGATGGGGTTTCA
CCACATTGGCCAGGATGGTCTCGATCTCAACCTCGTGATCCACCCACCTCGGTCTCCCAA
AGCGCTGGGATTACAGGCGTGAGCCACCGCGCCAAGCCAAGGTCTGCATTTTTCTTTAGA
ACTCAGAACACCCAATAGTCCTAGGCCCCCATCCTCGCATGGCAGCAAGCTAAATAAGCA
TNTTCCCACTGCGAGTTGGGG

Sequence=1860;DNA;Homo sapiens

GTCCGCTGAGAATGGATAATCTCACTGCAGGTATTCCATAATAGGCTTGGATTAAAACCA
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TCTTCTTCTCCCCTTCCCCATATCCCACATTCTCCTAAACATGATGTACGTGTAGCAACA
GTCTTTTAAAGTCAGATGGTCAGACTAATTATTTTTACAATTTAAGTGTAAGTGATGTAC
ATGAATGGACTCTGTGAATCGGAAAACTTACGTAACAGCAGAGAATACGTATGTTATATG
GAATAACCTGAGTTGAAGGTACAATTTTTTTTCCAGCTCTTTTATTCCTTTAACTGCTTA
ACAAAAGAAAGAGTCTCCAAAGTTTAAAAAACCTTTGAAAAATATACAGCTTGATATTAT
TTACATAAAATATGAATCCAGGTTCCAATATCAAACAAACATTGCTATGTCAGAAACACA
GTGGAAGGCAGGAACGTAACTCACTGCCTTTTAGAT

Sequence=1861;DNA;Homo sapiens

CCCGCGTCCGCTCTTTTCTTCTCTNTAAAGTGAATTATTCCTTTTTTTTGTTTTATGTAA

TABLE 2

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CGTGTATATATTCTTAGTTTTTCTTGAAATCATTGTAATGTTAACTTTGTTGTTTCAAAT
ATCTTGGTGATTGCTTCATTATCTCTTCAACAAAAAAAACCTTTAATTTTGCCATTGAAA
CTGTAGAACTATGCCATGCTTTTATTAGAAGCAGTGCTCTGTGTTAACAACAAGAATGGT
GTAATTAGAATTGGGATGTGGATATTTACTGTATGACAACACATTTACAGTTCTGTAATG
CAAGGATGCAGTTTAAAAATGTGAAGTAGTGATGGTTTTTGAAATAAGCTTTAAAATATA
GGGGATCTTGAAGGCTCCCTGGGGTAACTATTTTATAACTTAGATAAAATGGCTAGTCAT
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Sequence=1862;DNA;Homo sapiens
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GTCTCGCCCCTTCTGCCTTGTACACCAGACTGCCGGCAAGCAAGCGGGGAGGTGGCGAAC
AGCTGGGATCCTCCAGTGAAAAGTTTGCTCAGCGCGAGAGATGTCAAGAGGCTGGGATTG
TCGCCTATCGGGAGGTGGGGAGCTCTCTCACTCACACTTCCTGGGAAATGAAGGAGAACT
AATAGGCAGCCCGCATTTGCAGCCAGCCAACCTGGGTGGTATTCCTTGAAGTGAAGCGCT
CATAAATCCCTTCTGGGGCCAGAGCCGGTTTCACAAGCTGCAGGATTTGGGTGGCCTGCC
TGCTCTTTGGGAGCGGGCTTGGGAAGCTGAAGAAATTGAATCAGGACCTCAGGCCCTTTA
CAGACTCCC

Sequence=1863;DNA;Homo sapiens
CGCGTCCGCCCCGCGTCCGCTCAGAAACCCCTGCCCTTTCCCTTCAGAAAACGATGGCAG
GCATTCCTCTGAGTTTACAAGCAGAGACTCACTCCAACCCAAACTAGCTGGGAGTTCAGA
ACCATGGTGGAATAAAGAAATGTGCATCTGGTCTCTTCTGTTGTTTTTATTTCATATCAG
ATTAAATTTCTTTACCATGTTGGCTAAGTCTAAATATTAGAGATGAGGCTGTGCCTACTC
CCTGGCCAGCTCTGCTGATAGCCTATGATGGGTTCCAATGGGAAATGACTCTTTACTATT
AAAAGACAAGGAAAGCTCTGACTTCGTACTTCTCTGATGAATGGCAATGTAAATGAACAA
GGCTCCATGTGACTGGAGCATGGAAGTGAATGCTACTTTCTTAATTTAATCTGCCCTGTC
CTACCTGCTCCTCTGATTGTTAGCCATCACATAACTTATTGAATGCTTGCCATGTGCCAG
GCACTGTGCTGAGTGCCATACATACATTTCATTTAATTATCCAATAATCCTACTTACTA

Sequence=1864;DNA;Homo sapiens
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AGGAAGCTGTTTGGAGATAATTTAAGTGACTTGCCTGGGGAATCTAGCCAGTAGTAGAGT
ACTGATTAATCAGGTGCTGACATCTGCTCTGCTTTGTGTATGTAATTCAGCAGTGCTTCA
AAGATCCAAGAAGCTGTAGCAGATCTCAATACACTCTCCTATAAAATTAGTGAATAATCA
CCATGACAAAATTGGTATGGCGGAACAGTCATTATACATTATTTAGACTCATTCCTTCTT
CCAGTGCCCTTATGATTATTTCCTACCTTTACCATTGG

Sequence=1865;DNA;Homo sapiens
CCNCGCGTCCGCCCCGCGTCCGCCCCGCGTCCGATATTGCTTCAGAAAACTGAATGTGTA
TGTCGGTCATATTGCCTTTATAACCATGCTAATATCTATGCTTTATACATACTCAAACTT
GCCTTGCCTTAAAAAAATACATACTACATACTTAAATCAGGAATTCTAGCCATCTCACAG
AATACCAACTAAAACTAAGTGCATTGAGATCTGAGATTGGTAAACCCAGATTCATTTACC
ACAGCTGTAATTAAGTTTTTAGAAACTATTCTCTTTTTGGGGAAATCCATTGAAGTTAAT
TTCTGTTATCTTATTAGAAGAAAATGATGTTGATATGTGTTTCAGATTTTCCATTTGAAA
TCTTATAATTAATTTGATTTATTTACTGTAAGTAGGAGGTATNAATGACACTCTTAAATT
GGAAGGAGGGGTGTTTTAGTGTCTGTNTTAGGTCAAAATTAGTGATTCTATTTTTATCAA
AAGTTTTATCCTGAAGTTTCAGGACCACTCTTCCTTAATNAACTTGTTAATGGGAAGCGA
GCCTTATGAACATTTAAAAAT

Sequence=1866;DNA;Homo sapiens
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ACTTCTTCACTATAGAGCATTTACTTTTAGTCTCTAGATGTATATTTTGGAATGCTGTAC
TTGGCATAACATAGATTAAAATCATAATGCATGACTAAAAACTCCTTGGATTTATTTCCC
ATTTTAAAATTTTTAGCGGTAAGTTCAGATTTATAATCTTTCTCTAGACTTCCATGGTCT
GAATGTTGCCTGCTGAAGTAGCAACCTAAAAAGTATCCCCTGCTTATGCTTCTCCAGTTG
GCCCTCCATGTCCATAGGCTTCGCATCTGTGATTCAGCCCACTGTGGGTCAAAAATATTT
GGGGAAAA

TABLE 2

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Sequence=1867;DNA;Homo sapiens
GCCCGCGTCCGCATCCCTTGTATACCATCGTAGACTTCATACTGGAGAGAAACCTTACAA
ATGTGAAGAATGTGATGAAGCTTTCAGTTTCAAATCGAACCTTGAAAGACATAGGAGAAT
TCATACTGGAGAGAAACCTTACAAGTGTAATGATTGTGGCAAGACCTTCAGTCAGACATC
ATCCCTTGTATACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATG
TGATGAAGCTTTCAGTTTCAAATCAAACCTTGAAAGACATAGGATAATTCATACTGGAGA
GAAACTTTACAAGTGTAATGAATGTGGCAAGACCTTTAGTCGGAAGTC
Sequence=1868;DNA;Homo sapiens
NGACCNCGCGTCCGCGCTCCGCTGCCNGGGGCGGGAGGGAGGAATGGTTGCTTCACGCCC
CGGGGGAAGAGACNGGAAGCTCGGCTCTGGGTTGCGGGCCCCGGGGTCTCCGCGTGGGGC
GCACCGTCCGACCCGCCCCTCCCGGTGTGCAGCGCCCCGCACCGCCCCGCCTTGCCTGGG
AGAAGCCCGGCGGGACGCGCCGGGCTGGAGTGGGCGGTTATAGGCTTTGAGCTAGGCCGC
TTCCGGGAGGCGGAGCTCACACCCCATTTCCTTT
Sequence=1869;DNA;Homo sapiens
GTCCGTTCCTTGATTCCTGGAAGTCCAGTGGGTTCTGCAGCTGAAAAAGCCCTGGGTCCC
AGCAGCAGAGAGACAGGACAGAGGGGATGCTTGGGCGGGGAGGGACGGTAACCTGCAGAA
CAGATTCCATTTTTTATAGAACGAGTACACGTTTGCTAAAACAGTCCTGCTTTCCCAGACT
GGATTCCCACCACAGGGACAGTCGGAACTCAGGACTAGCTCCAGCGACATCTTTCCTCCG
AATTCAAGCCTTCTATCACAATGTCAAAACAGCTATTTATAAAGCCATTTTCATTGTACT
TGATAACAGCACGAGTCCCAAAACTTTTAGAAATAAAATAGGACATTGGCTTGATTGAAA
AGAGGGACTTTTTAAAAATTGTTCTTTCGTCAGAAAGCCTTTTGGATGACT
Sequence=1870;DNA;Homo sapiens
GCGTCCGAAAAAAATAGCATTATACCTCTTCCTTGTCTCAACCGCCATGAAAATTCTGAA
CACTCCAAATTCAGTTGAATAATCCAAAACAAAATTTATAAGTATAAAATAATTTTACTT
CTTATAGTAATAGTATACTTTAAAAAGCCTCAGGGTATATTATCTTCTAAACAGCTACAA
TTCAGTGCAGCTACATTAACCAACTATGTTCTCTAGTTGAGAACAACTAGGCCTATTTCA
CTGCTGTGTAGCCTCAGTGCCTAACATGGGTGCCAAATAAATATTCGTAGAATTACACTG
AATTGTAAAAACCATTCGTTTTTGTTTACAATTGCCAAAAATCTCAAAAGGCCCTGTATT
TATGTAATTCTTTGAAATTATTATTTTATTTTGATTTCTCAGTTATTGACTGGTGGGGTG
TGACTTAGTCATAAGTACTCAATATTATAAAAACCTCAAATAATTGACTTGGATTTTACA
CAACATCCTTCCCTTTTCTACAAGTTAAATTTTTTTACC
Sequence=1871;DNA;Homo sapiens
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GCGGGTAGAAGGAGGCAGTTATGTTTATATTGAAGGTGAAATTTTTCTTTCATTTAGAAT
GGAAAACATCCCCAAATGTATCATTATAAACTAGTCAGCCTTGACTACACAAAATTGACC
TTTAAGTTGCTTGAGAAAAACACAATGCAAATCGTTCAGAAGGGTCAACATCCTTTGGTG
CTAAAATCTTGTGTATGTTTTCAGAATGGCTTTTTCTGTATGTTATAGAATAATCACTAA
AGGAAAGGTAGTTGAATTTAAAGTCATGAAGCAAGACTCTTTAATTCAGTTATTTTAAAC
AAGAATTAAAACCCCAAACATCCTTGGCAGGCTTTGAAGCACACAGAATTTTCTAGNATT
TCTTATTA
Sequence=1872;DNA;Homo sapiens
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TCACTTTCTACAGGAGGTTATGATTTTTGCCATTTACTAGAGGAAGATGTTTTATGAAAT
CAAGTTGGGGTTTGAATTCAGGTGCAGTCATCAGTTCTTTAGGGGCTGCAATGTTTTAAA
AAAAAATAAGTCATCAGATTTTAAGAAAAAAGTGATGATTTCTTATTGATATTTTTGTAA
CAGAATATAGGCTCTTAACTGAAAATCCAGAACCAGAAACATAAATCTTGAGTTTCTTTT
CATGTACATAAAAAGCAATAGCCGTTTTAGTATAGGATAGCCCTGAGCCCAAAAAGTAAT
AGAAATTTTCTCTAGATATTTTAATACAGAGAGTGTATAGACTGACTCTAAGTTAATAAA
TGTGCAAAAATATCTTAAAACCATNCCCTNCCCTTTATTTCAAC
Sequence=1873;DNA;Homo sapiens
CCNCAAAAAGGAACCAGAGGCCACTTGTATATATATGGTCTCTTCAGCATTTATTGGTGG
CAGAAGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCCGAACAGCTGA
GAATTGCACTGCAACCATGAGTGAGAACAATAAGAATTCCTTGGAGAGCAGCCTACGGCA

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ACTAAAATGCCATTTCACCTGGAACTTGATGGAGGGAGAAAACTCCTTGGATGATTTTGA
AAGACAAAGTATTTTACCGGACTGAGTTTCAGAATCGTGAATTCAAAGCCACAATGTGCA
ACCTACTGGCCTATCTAAAGCACCTCAAAGGGCAAAACGAGGCAACCCTGGAATGCTTCG
TAAAGCTGAAGAGTTAATCCAGCAAGAGCATGCTGNCCAGGCAGAAATCAAGAANTCTGG
TCACCTGGGGAAACTAT

Sequence=1874;DNA;Homo sapiens

CCACGCGTCCGTCCGCCTCCAGCAGCATCCGCTTCAGCAAGGCCTGCCTGAAGAACGTCT
TCTCGGTCCTACTCATCTTCATCTACCTGCTGCTCATGGCTGTGGCCGTCTTCCTGGTCT
ACCGGACCATCACAGACTTTCGTGAGAAACTCAAGCACCCTGTCATGTCTGTGTCTTACA
AGGAAGTGGATCGCTATGATGCCCCAGGTATTGCCTTGTACCCCGNTCAGGCCCAAGTTG
CTCAAGCTGTAAGCACCATTTACGAGGTCATTCCTCCTCTGACAAGCCCTGGCCAGCCGG
GTGACATGAATTGCACCACCCAGAGGATCAACTACACGGACCCCTTCTCCAATCAGACTG
TGAAATCTGCCCTGATTGTCCAGGGGCCCCGGGAAGTGAAAAAGCGGGAGCTGGTCTTNC
TCCAGTTCCGCCTGAACAAGAATAGTGAGGACTTTNAGCCGCCATTGAT

Sequence=1875;DNA;Homo sapiens

GCGTCCGGTAAGTATTTTGGAATTCAACCCTCGAATTATTTTTTCTCATTTCAGCATAGT
GATAGGGGATGCAATGAGGCTTCATTATTTTTTATGACCTGCCCCTCATTTGCTCTGATG
TTCCCTAAATTCTGTAATCATATCATAACTTTTGTTATGAATAGAGAGGAATGGGCTCAC
TGAAACCTGACACTAGAAATTGGTGGGTGATGCTCATAACTGCAAACACTTAGCTTATTG
AAGTGCCTCTATTTACATGTTCTTTAGTTATAATATGTATTTTTCTAACAGAAATACACG
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AGTCTTTAGCAGAGAAGAATGAATTN

Sequence=1876;DNA;Homo sapiens

AACTGTTTGGGAAAATACGTTGAGGGAGAGAAGACCTTGGGCCAAGATGCTAAATGGGAA
TGCAAAAGCTTGAGCTGCTCTGCAAGAGAAAATAAGCANGACAGAGGGATTTGCTCTGGA
CAGANATGGAAGAGCCNGGGAACAGAGAAGTGTGGGGAAGAGATAGGAACCAGCANGATG
GCAGGGGCAAAGGGCTCAAGGGTGAGGAANGCCNGTGGGACCCCACAGANTATGGGGAGA
TAAAGGACATTGCTTTGCTTTTGGTGGCACCGTAAGCTCCTTGACTGTCTNCAGCACCCA
GAATCTCATTAAAAGCTTATTTATTGTACCTCCAACCGGCTTGTGTGCAATGGGGGTCTT
TTTGTGGAAAATCAANGAGCANACAGGTTTTCATGTGTACTGTCACCACGTGGGATGNGA
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Sequence=1877;DNA;Homo sapiens

CCGCCGGTAAGTTAAAGACTTTAAGGACATTCAAAGTTTAAAATAGTGTTCAAATTGCAA
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TGTCAATTATAGGAAAACATAGTTGGAAATGTAATCATCCAAAGATCATTTTTAAAATGA
AATTTAATTAGCACATATTGAACATTTGACTTAATTGTTAAACCCCAGTTTTGTTTTGTT
TTTTTAATCAGATTTTTGCACACTGATTAGTTTTTGTGTTGTGGCTTTTGTTGCTTTATT
ATTCAAGGTTTTTTTTTTTTTTTCTTCCCCATGGGGGAGATTGTCTTCCAATGTTTAACTA
CGTTTAAATAAATAAAAATTGAATTTTATTGNTCATTTATATAAAATCTGATCCTTGATG
TAATTTCCAATACAGTTCCAATTTTATGGCTTTATAATTACAATGATATTTTCTTCTATA
ATAAAAACCAAAGTAAACATTTAAATGGGGAAACTGATATTTTTCATTTATATGAAGTAT
NAAGCCCTCTACTGGGGTCNTTATTGGNGAATCATNCTGCCTTCAAANTGGTTTCAAAAN
TGGGTAGAAANAAAACCTTTTTTTTTG

Sequence=1878;DNA;Homo sapiens

CCGCACACCCTAAAGAAAATAAGTATCCCAGTCGACATCAGTGACAGTGATATGATGCTG
AACATCATCAACAGCTCTATTACTACCAAAGCCATCAAGTCGGNGGTCATCTTTGGCTTG
CAACATTGCCCTGGATGCTNGTCAAGATGGTACAAGTTTGAGGAGAATGGTCGGAAAGAG
ATTGACATAAAAAAAAATATGCAAAGAGTGGAAAAAGATACCTGGGAGGCAATCATTGGA
ANGACTTCCTGTGTCTTGCGTGGAGTCATGATTAACAAGGATGTGACCCATCCACGTATG
CGGCGCTATATCAAGAACCCTCGCATTGTGCTGCTAGGATTCTTCTCTGGAATACCAANG
AAAGGAGAAAGCCAGGACTGACATTTGAGATTACACGAGAGGAGGGACCTTCACCCCGAA
TTCTCNCAGAATGGAGNGAAGGAAGTACATCCCAGCAGCTNTGTGAGGGACCATTATCCC
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Sequence=1879;DNA;Homo sapiens

TABLE 2

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TTTTTTTTTTACAACTCAAAAAAAGAAATCTTTTAATAAAAATTACTCATAAAAATCCTA
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TACAAAAAGATCCCTTTTAATTNAAATACNTTTCTTATTTACAGATTAAACATAAAATAT
CATNTACAGTTGCAAAGCATATTGCACATTACAGAGCAAAGCATTNGNGTATTTCCGNAA
GTTTTCCCAGAGTTCCCAACTCTATACTTTTTTTTTGTAAAAAGATTTACCCTTGCTTATG
CAAAAATAAAATAAGAAATGCNANCTGNCGGTTTTGCTATTTAAAAACTANAANCCAAAA
TAAACCTNTTAAAAATATTATTCCTCTGCCTTGCANAAAAGGAAAGTGAAGAGGGGTNTT
ANAAATCAGNGGGGGTTNCCACCAGNGTCNCTTGATAATTTT

Sequence=1880;DNA;Homo sapiens

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TTGNTTCCTTATTTTCATAGACCATCCTCTAGAACAGTGTTTTCACACTGTGTATCATGA
TCCTATAATGCAGGGGTGTCCAAGCTTTTGTCTTCCCTTGGCTACACTGGTNGAAGAATT
GTCTTGGGCCACACATAAAATATACTAACACTAATGATAGCTGATAAGCTAAACAAACAA
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TTCAATGGAGAAATAC

Sequence=1881;DNA;Homo sapiens

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CTTTTGAGGCCGCGTAGTCGGTGTTTTTGAACTGACTCTACAGCTTCTGGCAGGCCGTGC
GGCGCCCTGACCCGGCCTCACCATGTTGGTGCTGTTTGAAACGTCTGTGGGTTACGCCAT
CTTTAAGGTTCTAAATGAGAAGAAACTTCAAGAGGTTGATAGTTTATGGAAAGAATTTGA
AACTCCAGAGAAAGCAAACAAAATAGTAAAGCTAAAACATTTTGAGAAATTTCAGGATAC
AGCAGAAGCATTAGCAGCATTCACAGCTCTGATGGAGGGCAAAATCAATAAGCAGCTGAA
AAAAGTTCTGAAGAAAATAGTAAAAGAAGCCCATGAACCGCTGGCAGTAGCTGATGCTAA
ACTAGGAGGGGTCATAAAGGAAA

Sequence=1882;DNA;Homo sapiens

AGGGAGCCGCCCCGCGTCCGCCCCGCGTCCGCGGACGCGTGGGCTAAAACCCATCAGGCA
AGATCACCACGCATTGANATATTTTCATATCAAGATAAAGTCGCACATTTTCCACAATAC
ATTGCTAAAATAAAGAGGAGAAAGGCTTAGGAAGTTTTTTTGCAGAGAGTGCTGGTAAAG
AATTGAGCAAGTTTGCTATTGTATTGNAATGTTTCTCTCAGGTTTGNTCTTCCTATCATG
GNNGGTATTCCATGAATAATTGAGATCAGCCCTATGTAAGGTAAGATCATAATATGGGGG
ACAAATGG

Sequence=1883;DNA;Homo sapiens

GCGGACGCGTGGGCTCCATCTGAGCTCTTGGGTGACCAGGGTGCATTGTCAATGAGGGTA
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AGTAAATCATGCTGTAAACAGATGTGTTGTCATCCAGGTTTTGTGCCATGTCTAGAGCAC
AGGCTGAGTAGATTTAGCATAATTCTGAAGGACCCCAGGATTTTCAGAATGATAAATGTG
CATTCGCTTCCACTTACAGTCACCAGCTGCATTAACCCCTAACAAGAATCAGCCTGTCCT
TTGTAGCTTTGGAGGCAGGCATGAACTTCTCCTAGATGGCATCTTCCAAGAGGGCTATTT
TTGTCTACATTGAAATTCTGCTTAGTGTAGCCACCTGCTTCAATGATCCTA

Sequence=1884;DNA;Homo sapiens

TNGACCACGCGTCCGGGCGCCNTCTCCCAGCAATCAAGTCTTGCTCCCTGGCCTGCCCTC
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GCAGGCCTCTCAGGGTCCTTCACCGTCTCTCCAGTCTCGGATCCGGACCCGTGGATCTCA
GCCTCAGACCCTCCTCTGGCCCCGGCCTTGCCCTCGGGCACGGCCCCTTTCCTCTTCAGC
CCTGGGGTCCTGCTCCCCGAGCCAGAATATTGTCCTCCTTGGAGGTCCCCAAAGAAGGAG
TCTCCCAAGATCTCCCAACGTTGGAGGGGAAGTCCAAGCCCAGGGGGAACTTGACATACC
ACCAGGTACATGCCCCCAGAGCCGAGAAGGATNCGGGGGGCAAGACCCCCANGCCGTAGG
GNGTCCTCCCTTGGGTCCTCCTGGGCCATCTCTGTGGGGAAGGGACAANACTCGCAACAA
NCCACATTCTAANGATGANGGCCCTTTTNCCCT

Sequence=1885;DNA;Homo sapiens

CCNCGCGTCCGGAAAATATCCNAGGTTGTACGCAGCAGTGGAAGTTGCTCTCAAGGGAGT
GGTATTTTACACTATGCTCATGGCGACAGTCAGCAAACTCACCTGTTGAAGCAAGGAAGA
AGCTCCATGGGCACTGGTCTCAGTGGTGGGAAACGTCCTAGTCAGGAAGAGGACACACAG

TABLE 2

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AGTATTGGTCCTAAAGNCCAGAGACAGAGCACTAATTAGGTAAATATTTTAGAGCTGTAT
TTCTTGCTTTAGAAGAGTATATAATTAACATAAATTAAGATAATTTCAAAAATGGAGCAA
ATCTCTATTTTCAAACCAGAAAATCTTGAGGCATTAATTTTTAAGCAATTTTTACAAACT
CAGTTAATTTTTGGTCAAGAGACATGCATCTGTACTGGAGAAATTGTTGCACCAAGTTTT
ATATTCATCTGAACCAATGC

Sequence=1886;DNA;Homo sapiens

CCCCGCGTCCGCCCCTTTNCTCCCTGAGGACTCCACAGAAGATGGTATATTATGGGAAAC
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ACAAGAGAGAGTCCCCTCTCATCGTCAACACTATGGGATGGGTTTCAGACCAGGGGCTCC
TGCTTCTCATTGATCTGATCCGATTGCTGTCTCCCAGCCACGTGGTTCAGTTCCGCTCTG
ACCACAGTAAATATATGCCAGACCTTACCCCGCAGTATGTAGATGACATGGATGGCTTGT
ACACAAAAAGCAAGACCAAGATGAGAAATCGACGTTTCAGACTCGCAGCATTTGCAGATG
CTTTGGAATTTGCTGATGAAGAAAAAGAGAGTCCAGTTGAGTTCACTGGACATAAACTGA
TAGGTGTTTATACAAGACTTTGCATTCAGAATAACTCCAAGAAATAGGTAACTAACCCTC
ATTTGGCTGAAGAATTATTTTTCCTTCCGTCGAAAAAGACCTGCCATTCTCA

Sequence=1887;DNA;Homo sapiens

GTCGACCCACGCGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGACGCGTGGGCTCTCGC
ACTCTGTTCTTCCGCCGCTCCGCCGTCGCGTTTCTCTGCCGGTCGCAATGGNAGAAGAGA
TCGCCGCGCTGGTCATTGACAATGGCTCC

Sequence=1888;DNA;Homo sapiens

ACCACGCGTCCGGGCGCCAGGCTAGGGCGGCCTGGCCACTGAGCCGGGGGTGCAGTGGCAG
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CCCCAGCTCGCCGACCCCGGGCTCTCGGCGCCGGCGCCAGCGCCCCTCTGTGGGCGTCCA
GTCCTTGAGGCCGCAGAGCCCGCAGCTCAGGCAGAGCGACCCGCAGAAACGGAACCTGGA
CCTGGAGAAAAGCCTGCAGTTCCTGCAGCAGCAGCACTCGGAGATGCTGGCCAAGCTCCA
TGAGGAGATCGAGCATCTGAAGCGGGAAAACAAGGGTGAGCCGGCGCGGGGCCCTAGGCC
GGCCCTGCCTCCCCAGGCACACTCAACACTGCCGCTCCCGCAGCACAGAAACACAGCCAT
TCAACTCCAGCACACGCCTGGGCTCAGGGGGAACACAGGACGATCTCCATTACAAGCTCA
TAATGAATCAGACATCACAGAAGAA

Sequence=1889;DNA;Homo sapiens

CGCGTCCGTGAAGGCCAGACCGAGAGGTGCCAGAAGAGAACAAACCTCCATCCAGACACG
CGGGCGGAAAGGCTCCAGGGGTCCAGGGCCAGATGGCGCCGCCTCTGCCCGACTCAGAAA
GAGAGAAACAAGAGCCGGAGCAGGGAGAGGTTGGGAAGAGGCCTNGACAGGCCCCANGCC
TTTGGAGGAGGCGGGTGATCTTCCTGAAGATCCCCAGAAAGTTCCAGAAGCAGATGGTCA
GCCAGCTGTCCAGCCTGCAAAGGAGGACCTGGGGCCAGGAGACAGGGGCCTGCATCCTCG
GCCCCAGGCAGTGCTGTCTGAGCAGCANAACGGCTTGGCGGTGGGTGGAGGGGAAAAAGG
CCAAGGGGGGGACCGCCGCCAGGCAACTCCGCCGGNGACACAGGGCAGCCCGCANAGGACA
GCNACCACGGTGGGGAAGCCTTCCCTCCAGCGGAGAAGCCGGCTTCAGG

Sequence=1890;DNA;Homo sapiens

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GGAAGCTGCTCAGGTCTTGGAGTCAGCAGGAGAAGGGCCATTAGATGTAAGGCTACGAAA
ACTTGCTGGAGAGAAGGAAGAACTACTGTCACAGATTAGAAAACTGAAGCTTCAGTTAGA
GGAGGAACGACAGAAATGCTCCAGGAATGATGGCACAGTGGGTGACCTGGCAGGACTGCA
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AATACCAATTT

Sequence=1891;DNA;Homo sapiens

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TCCGACANGAAGCAANGCNTGAGGACCGCTTGCAAGCANGCTGGAGGAGGAGCAGCAGGC
CCTCCAGAAGAAGCTGAAGGGGACAGAGGATGAGGTGGAAAAGTATTCTGAATCCGTGAA
GGAGGCCCAGGAGAAACTGGAGCAGGCCGAGAAGAAGGCCACTGATGCTGAGGCAGATGT
GGCCTCCCTTNACCGCCGCATTAGCTGGTTTGAGGAGGAGCTGGACCGGGCCCAAGGANC

TABLE 2

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GCCTGGCTACAAGNCCTGCANAAACTTGTANGANGCCNNNNAANGCCGGCCTNATNATTN
GCCNNGAAGAGGGAATTNAAANGTTNTTNNAAAAACC
Sequence=1892;DNA;Homo sapiens
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CGGCTCCAAATGAAGAACCACACTGTTACTGGCATAGTCGTAATTCTGATCAGCATCTTG
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Sequence=1893;DNA;Homo sapiens
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GGAGTCTGAGGAACTGGAGCCTGAGGAGCCCCCGGCAGCCAAGAGGAGGAGGAGGAGCCG
GGACTGGTCGAGGGTGACCCGGGGGACGGCGCCATTGAGGACCCGGAGCTGGAAGCTATC
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Sequence=1894;DNA;Homo sapiens
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GGGCTCGCAGGGCGCCGAGGGCGCGCTGGAGGAAGTACCCCTGGAGGTGCTGAGGCAGAG
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TNCCATTCATGAAGAGTTTTTGTGTCCGGGGGGG
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Sequence=1900;DNA;Homo sapiens
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ATGCGTGCGAGCGCGGGGCGCGGCTGGCGCTGGGCCGTGGGGGCGGGGCGGCGTGCGTGC
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Sequence=1905;DNA;Homo sapiens

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Sequence=1906;DNA;Homo sapiens

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AGGAGGGCTCGGACGACGAGGCCGAGTGGGTGGTGACCAAGGACAAGTCCAAATACGACG
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Sequence=1907;DNA;Homo sapiens

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Sequence=1909;DNA;Homo sapiens

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CACACCCGCTGAAACCAGCCCCCAGGACTCACCGAAGGCCNGGGGGCGGCCAGAGTGGAA
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AAATAAGAATGCCCATCACTAGGAGAAACACTCCTCACAGAAAACACACACACACACACA
CACACACAATTTAAAAACTGAGTAAATTTAAATGTATGAAAGGCNCCACAAATTGATTTC

TABLE 2

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AACAAATAAATTTCATTTCTCTAGCTACTTATGTCTGGCCTTATTTTGAGCGTTACAATT
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Sequence=1912;DNA;Homo sapiens
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ATAGCTTGAAGAATCCTTTTCCACTGAAATAGAGGATAATTAATTGACACATCTGAAATC
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ACCCCTGAAAGTCTGTTTTT
Sequence=1913;DNA;Homo sapiens
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GNAANTATTGGGCCTT

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Sequence=1925;DNA;Homo sapiens

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Sequence=1926;DNA;Homo sapiens
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TABLE 2

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Sequence=1932;DNA;Homo sapiens
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Sequence=1933;DNA;Homo sapiens
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TABLE 2
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Sequence=1939;DNA;Homo sapiens
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TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=1992;DNA;Homo sapiens

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TABLE 2

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Sequence=1993;DNA;Homo sapiens

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Sequence=1994;DNA;Homo sapiens

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Sequence=1996;DNA;Homo sapiens

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Sequence=1998;DNA;Homo sapiens

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TABLE 2

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Sequence=1999;DNA;Homo sapiens

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Sequence=2000;DNA;Homo sapiens

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Sequence=2001;DNA;Homo sapiens

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Sequence=2002;DNA;Homo sapiens

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TABLE 2

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Sequence=2005;DNA;Homo sapiens
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TABLE 2

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TABLE 2

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Sequence=2019;DNA;Homo sapiens
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Sequence=2023;DNA;Homo sapiens
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Sequence=2024;DNA;Homo sapiens

TABLE 2

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Sequence=2025;DNA;Homo sapiens
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Sequence=2026;DNA;Homo sapiens
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GTGTTTGGCNGTCGGAATTAAACAACCACCATGTCCGAGCAAAAAGGCAAAGACCAAGAC
CACCATAGAAGCGCCCTTAGCGTGCAACATCCAANGNGTTAGNCATGTTNGACCAANNCA
CAGATTNGAGGAGTTCAAAAGAGGCCTNCAACATGAGTTGATCAAGAANANGAGATGGCT
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Sequence=2028;DNA;Homo sapiens
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CTAATGATTTGGTATTGATAGTAGAGCCAGGAGAAATATTCCTTCACACGCCTCAAATCC
ATGGTTGGCTCCTTCAAGCTGCAGTAAGTTTGTCCTAAGAAAGTCCAGGTCTGGTTCTTC
AGCCTTGCTCCTTCGCGAAATGATCCTGTGTGGGTTAGTTCTCCTCTCTGGGTTGCTGTT
TCCTCATCTCCCAGTTGGGTGTATCTCCCTGCGGCTTAGGTGAGCGCCGAGGCTTTGGCT
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AAGGG
Sequence=2029;DNA;Homo sapiens
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TTCCTCCGCTTCACTGGACTTNGGANGGCNCTCGGGTCCGTACNGGCTGGCGGGCNGAGC
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CAAGGGGGGATAAACGCAAGGGAAAGGAACATGGTGAAGCCAAAAAGGG
Sequence=2030;DNA;Homo sapiens
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AACANAACCGCCGNGCAAGCACAANCCCCANAG
Sequence=2031;DNA;Homo sapiens
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AGACCGTCCGAAATCCCTGGGCTGTGTTGAAATGTGNNTTCATGCTCCCTCGCTCCCAAG
CATAGACCGNCAGGAGCTCCAGGGCATACTGAGGNGGCAAGCTTCCAAGCTTCTTCTTAC
AATTTTGGACCTGCCCGG
Sequence=2032;DNA;Homo sapiens
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NNNNNNNNNNNNNNNNNNNATCAGGGGGATAANGCAGGAAAGAANATGNGGAGCAAAAAGG
CCAAGNAAAAAGGCC
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CCCNGGCGGNACCCAACAAAANCGCCNGGCAGCACAANCCCCNNTCGCCAGCGGGCGGAA
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CCNCNGAACGGANGGAAGACCANCGGCCCNAAAAAAAGGGGNCCCACGGGGCCAAANCAG
GGAACAACACACAAACCCCAAANCCGGGGCCANNNCCNNTGGAANCAAAAAAGGGANANG
AGCCGAACACCGNCCCAATGGGGGA
Sequence=2035;DNA;Homo sapiens
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ACAAGAANCAAGGGGGAATAAACCGCCAGGGAAAAGAAACAATGGTGAACAAAAAGGCCC
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GTACATCATGGCTCGGACTTGGGTCAAGCTCTTGGCACCAATGTCCTGGCATGAGTGTTG
GATGCCAGCAATCAGGTAAGGGACAAATTTGTGGATTGACCCTTTGTCCTGCACAGCACC
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CAGGGTCTGCTCCTGATGCTGNGCTCTGGGACAGGCACGCCACTGTGNGAAACACTAAGC
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Sequence=2040;DNA;Homo sapiens
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TTGGTCACTAACTGCTGNCCTG
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Sequence=2048;DNA;Homo sapiens
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TABLE 2

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GCATAAAAGTGTAAAAG
Sequence=2068;DNA;Homo sapiens
GCGAATTGGATCTCNCCGCGGTGGCGGCCGAGGTACCTTTTTAAATCTAGCCCAGTATAA
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ATTTATCTTTATGAACTCATTTATATTCCTTTTTAATGACTCGTTGTTCTAACATTTCCT
AGAAGTGTTCTTATAAAGGTCTAATGTATCCACAGGCTGTTGTCTTATTAGTAAATGCAA
AGTAATGACTTTGTCTGTTTTACTCTAGTCTTTAGTACTGGTTGTCAGGATTCAGCCGAA
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Sequence=2069;DNA;Homo sapiens
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GGCCCCAGAGGAGCTGATGGCTCATGATCTGTTGGCAGCCGCTGAGACAAGACAGGAGGC
CCCGCGTACCTGCCCG
Sequence=2070;DNA;Homo sapiens
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Sequence=2071;DNA;Homo sapiens
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ATTCCCAAAGGGTCCACCGAGNCCTGAACTCAGCTTCATCACCAACATTCCTCGCCTTNA
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TABLE 2

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CACCCTGGATATGTGTTCTGTTTCTAAGCGACATTTGTGAGAGATTATTGTAAAATGAGA
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TABLE 2

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AAGAANTCCTTGGAGAGCACCCTACGGCAACTAAAATGCCATTTCACCTTGNAACTTGAT
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GAAAGAAANG
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TABLE 2

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AAAAAAAGTTTCCTTGAAATCNGGGAAACAAGACATTTTAAATGAATCAANCAAAATTTC
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TAANTTCATTAAAAGTTT

Sequence=2090;DNA;Homo sapiens

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Sequence=2091;DNA;Homo sapiens

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Sequence=2092;DNA;Homo sapiens

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Sequence=2093;DNA;Homo sapiens

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TABLE 2

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Sequence=2096;DNA;Homo sapiens
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TABLE 2

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Sequence=2103;DNA;Homo sapiens
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ANGNNCCTN
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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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CATCCAGGTGTTCACAAAAAATCAGAGAATCTCTTTCGAGGTGCTGGCCGCCTTCAACGC
TCTGAGTAAGCATTGCTGGGTGTCAGGAGAGAAAAGCCAAAGAAGCGGGTGCCAGACAGC
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ACCATAGACCCTCAGGAGAAAAGAATCCCTTCTACCCTGGACTCGCTCTCTTCTCTGGAA
CTAACTTCTCCCCCATACCCTGATTGTCTTTGGAGAAAATGTTCTGGATTCTAGAATCTA
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Sequence=2144;DNA;Homo sapiens
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GATTCTATGTATGCACATGACTCCTTTTTTTACTTTTACTTAGGAGGCTTAAAACACAATT
ATTCATTCAATATAATTATAAAGCAGAGTCTTTGTTAATTTCTGAACTTGGTAAAAACAT
TTTTTATATTTTATCTATAGCTCATTAATTTAGGTATCAAAAATGTGTTTTAGTTTAGGT
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TGCTCGGGATCGAC
Sequence=2145;DNA;Homo sapiens
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GAAGAATGGAGAGAGAATTGAAAAAGTGGAGCATTCAGACTTGTCTTTCAGCAAGGACTG
GTCTTTCTATCTCTTGTACACTGTATGCATCATCAGTCCAAAGTTTTTCAGAGTTCTATG
TGACTGGTTGAGGAAACACTGCTTGAATTTCCCCATAGCCTCTGCAGCGGCATCACTGTC
TATGAACTCTTGAAGAAGCTCTTTGTATTCAGGTATAGATATGTCGGAATTGATGGTCTT
TTCAACCATGTCCTCCAGGAGTTTGCAGCCAGAATCTGCATAGCAGTGCAGGAGGAGGGC
CGCCAGCATGAGGACCATCAGCAGCTTCATGGCGAGGCGGCTGCTGTCTGTGTTCAGTCG
TGTGTGGCAGGGATCAAGGAAGTTGCTGTCCCCGCGTACCTN
Sequence=2146;DNA;Homo sapiens
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GCCGAATGGCTTGCCTNANAGGGNCAATGGCGTTCTGAGATGGTGGCCA
Sequence=2147;DNA;Homo sapiens
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TAGCGGATCCTATATGTGCCAAGCCCATAACTCAGCCACTGGCCTCAATAGGACCACAGT
CACGATGATCACAGTCTCTGGAAGTGCTCCTGTCCTCTCAGCTGTGGCCACCGTCGGCAT
CACGATTGGAGTGCTGGCCAGGGTGGCTCTGATATAGCAGCCCTGGTGTATTTTCGATAT
TTCAGGAAGACTGGCAGATTGGACCAGACCCTGAATTCTTCTAGCTCCTNCAATCCCATT
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GGGGAATGGGGCACCTTAATGGAAAATTTAAAGGGGAAAANCCCTCAGGCCTGNNGGGGG
NGGGGCCCCTTCACAGCCTTTTNCTTAACTNAGAAANCGGGGAAAATTGNAAACCATTGG
GGGAGAAAATGGACNACTTCNCACTNTTGGACNGGTTTTTTTCCAAAANTGTNAAAACAA
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Sequence=2148;DNA;Homo sapiens
CCACTATAGGTTTATGGGAACTCCCCGCGGNGGCCTCACTTTTNACCTTCTGGAANCCGC
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TABLE 2

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TGCTTCTACTTGTCCACAATCTGCCCCAGCATCTTTTTGGCTACAGCTGGTACAGCTTTC
TTCGTCCTCCATGCTAAGAGATGTAAAAGCTTAAGGGTCAAACAATACCAATTGTATAGG
CTTCAAAAACCATCTAAGTTAGGGCATTCTNTAGTTTTAGCTAAGATACACCTGGAACAC
TGACAAGTCATCACTTACATAGAATAATGTGAAGTAAATTTTTTGAAAAATAAATTTTAG
TGGAACAATCCTGAAGGATAACACCAGAAGAATAGCAGGTTACCAGTAAGGGGTCAGCCA
ATTTGTTCCAGTCACTTTTGAATCCATGTTCTATAATCTAAAAATTATTCTCTTTCCCTA
AGCTGAGAGCTTCCTATCATGTCAGTATCTATGNTATGAAG

Sequence=2149;DNA;Homo sapiens

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NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNCTNGGGCGGAAAACAANGGCAAAAGCNGGNNCC
CGGGGGGGAAAANGGGNAACCCGNNNCACAAAANCCACNACAACAAACCGAGCCCGGGAG
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AAANGGGGGGGGNGCCCCACNGGCCCCCNTTCCAAACCGGGGNAAAAC

Sequence=2150;DNA;Homo sapiens

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GCAGGCCAGGATGCCTTGTGAGCAGAAAGCTGAAGGACACAGCAGTGGATCTTGGCAGTT
CAGTTTCGGTGGGCAGATCTTCCTCCTCTTTGACTCAGAGAAGAGAATGTGGACAACGGT
TCATCCTGGAGCCAGAAAGATGAAAGAAAAGTGGGAGAATGACAAGGTTGTGGCCATGTC
CTTCATT

Sequence=2151;DNA;Homo sapiens

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NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAGGGNAAAGAGGGNNCCNGGGNGAAAA
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CGGGGGGCCNAAAGNGGGGNGCNAACCCAAAANAAAANGNGGNGGGGCNNAAAGGGCCCG
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NGNNNGGGGGGGGGANNGGGGGGGGNNNAANGNNNAAANCCNAAAANGGGGGGGGGGAAA
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Sequence=2152;DNA;Homo sapiens

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CACCANCCAGGGGNCCACAAAAAAACAGAGAAGCCCNNGCGAGGGGCNGGCCGCCNGCAA
CGCGCNGAGCNNAAAGGAAAACCCCAGCCCCCGGAACCANCGAGAGCNCAAAAGANCCNG
GGAAAANACAAAGGCCAGNCCNGGGGAGAANNGCAGNCCGCANCACNGAACCCCAGCAGA
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Sequence=2153;DNA;Homo sapiens

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ANCCCACTGNGNGGGGCANCCCTTANAANNNGGGGGAANNCCCCNGGNAAAAAANGGGGC
NGGGGNCCCNNNTNNGNANNNTTCCCNGGGGGGGGGCCCCANNAAAANNNNNNNCCCCGG
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Sequence=2154;DNA;Homo sapiens

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TABLE 2

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AAATTGTTANAAATAAATCCCCCAAAAAACAATCNTTAACNTGGAATGGCCTTTACTTTT
CA

Sequence=2155;DNA;Homo sapiens
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ACAGTCACAGGAGACTTTCCTTTTTTCTTAATTGTTCTCATCTCATCTTTAATTATTGCT
GCTGCTGTTATGTGTTTATGTTTCCCTTTTTTTTTAAGTTTTGAGGGTAGATCGNGTCAC
TGGGCGTAAGANACTGAGAAATCAGGTAGCTTCACTGGCTGGTAGGGGACTTTTGCTTTT
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Sequence=2156;DNA;Homo sapiens
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GCAGAGTCCCCATGGCTGAATCTCCCTATGTCTCCAAGNGNGCGTCACTTGCTGTCCTNT
GGGCTGGGTCCCATGNGCTGNGCCCACAGTCTT

Sequence=2157;DNA;Homo sapiens
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CAAAATGGCTTTTCANTGGAACCCTTGNGTNTTGGAGACCGGTTAGNGAAAAGGCANACA
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Sequence=2158;DNA;Homo sapiens
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ATTTTCCAGAAAACCGGGTGGCCAGGTNNGGGNGGAAGAAGAGCATTTTAAAAACCAAAA
CCAAAACAAGGGAAAAGCTAAAAAGGAGTTTNTTCCAAATANTCCTGAATTCATTAGGAG
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ACCTTGGANAAAGNCTTTATTACCCCCATNTGAAAAACAATGCCTGCCAATGGATTTACC
CTNTTTTTCACGGTTCTTCCAGGGTTCCCAANTNACCGNTTGTCCTGGTNAATCCCTTTT
TGGGCCCTTTTTTTTTTTTT

Sequence=2159;DNA;Homo sapiens
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Sequence=2160;DNA;Homo sapiens
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CTTCCAGGTTCACGCCATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGTGCC
AGCCACCACGCCTGGCTAATTTTTTGTATTTTTAGTAGAGACGGGATTTCACTGTGTTAG
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TABLE 2

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GGGATTACANGGCATGAGCCANTGGGCCCCGGCCAAAAAANAAANTTTTTTAAAAANGGC
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TTTNTNNCCCCCCCCC
Sequence=2161;DNA;Homo sapiens
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GTACCTGCCCG
Sequence=2162;DNA;Homo sapiens
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GGTGCCCCACACAGGACACCG
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GACAGGGACTATGTCTTATCAATCACTATTATTTTCCTGTTACCTAGCATGGGACAAGTA
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Sequence=2166;DNA;Homo sapiens
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CANAAGGGAGCAGGATCCAGGAGGCCCTCATNTCCCAGCACTCCAGCTGAGCCAGCCGGG
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Sequence=2167;DNA;Homo sapiens
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TABLE 2

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TCCTCTGCAGACTCAGCCTCCAGGCTGTTTAGCTCTCCCAGATAGCTGCCCCTGCCACGC
AGGCCAGGAGTCTTCACACTCAGGCACCAGGCCTGGTCCAGGAGGAGCTGTGGCACAGTC
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AAACAAACCAAAATTTAAATGATCAGAATTGGCAAGCACAAAGAAAACGCCCTNTCCTGA
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Sequence=2168;DNA;Homo sapiens

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Sequence=2169;DNA;Homo sapiens

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TGCCTAATTTTTCTTCGTCCTGATGAGAACAAAAAAGAGAGAGAGAAGAAAAGAAAAACC
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Sequence=2170;DNA;Homo sapiens

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AAGAAGGAACTGCTGTCTGTGGTGGCTGGGGGAGACAACTACAGGGTCAATAACAAGCAC
GATGACAGATACACACCACTGCCTTCCAACAAAATCGTCAAGCGGGCAGAGGAGTTGGTG
GGGCAGGGAGTTGCCTTATTC

Sequence=2171;DNA;Homo sapiens

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GANGCTCACGAGCATCCAG

Sequence=2172;DNA;Homo sapiens

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AAAACCAGCAGTGGC

Sequence=2173;DNA;Homo sapiens

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Sequence=2174;DNA;Homo sapiens

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TABLE 2

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AGGCACCGCATCCAAGTTAAGCAACCGACGCCGGCTCCTTGGTGTCCCAACAAGGTCTAG
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Sequence=2175;DNA;Homo sapiens

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TGTGCCCAACTGNGTTTCCCAAGCTATGTGAGTTCANATAACCTCANAGTGAGCTCGCTG
GAGGGGCAGTTCCGGGAGGAGTTTGTGTCCATCGATCACCTCTTGCCAGATGACAAGGTG
ACT

Sequence=2176;DNA;Homo sapiens

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AATCCCAAAACACACAATGAGGCTGGCTCAGGTTTGACTCTATCTTGGAAAAAAATAGGA
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CATTTCCATTTTTGGAAACGGGTAG

Sequence=2177;DNA;Homo sapiens

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TAGACATCATAGTAGCTAATCTAACTGCGACCGATAAGGATCAACCCCATACACCAGCCT
GGAACGCAGTGTACCT

Sequence=2178;DNA;Homo sapiens

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Sequence=2179;DNA;Homo sapiens

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NCTTTTCCATGGGGGCCGGAGCNGCAGCTTACAATGNAAAATNACANACTGGNGCTNTTG
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Sequence=2180;DNA;Homo sapiens

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GATTGGATAGGAAGAGGAATAAAATATAAAAATCAGAGAACTGCTGAAATTCTGTGACCC
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Sequence=2181;DNA;Homo sapiens

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AACACAGTGAAATCCCGTCTCTACTAAAAATACAAAAAATTAGCCAGGCGTGGTGGCTGG
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AGAGGTTGCAGTGAGCCAAGATTGCGCCCCTGCACTCCAGCCTGGGCAACAGAGCAAGAC
TCCATCCCAAAAAAAAAAANTTNAAAAAAAANNNNGGTACCTTGCCCGGGGCGGCCGCTC
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Sequence=2182;DNA;Homo sapiens

CGGTGGCGGCCGCCCGGGCAGGTACNTGGGGAAGGCGCNNCGTGCGTCAGCTTGACAGCA
GAAGCAGGAGGAGAGCTGGCGGGAAGACATGCACCCCTTGAAGACCCAGAGAGAGGCCGT
CTGTCTACCGCGTAGCAGTTACATCAGACTGAGACACTTCCTGTTTACAGGAGACTATAA
AATTCCTGCCCCGTGCTCATTTGGGGCTGACGCCATTTTAGACCTCAGCCCATCTGCACC
CAGGCGCTCACTGAAACAGTGTGTTGCTCCACACCGCCTTGTTTTGCTTGNTGGCGCGCT

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CTCAGGGTTCCGACCAATCCAAGAGCCTTGCAGAAAGCATTAACGTGCTTTTNTCTTTGG
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GGGAATACAGA
Sequence=2183;DNA;Homo sapiens
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AACATCTGGAATGATGCAAAAACTGTCAATGTTATCACAACTGCATGTTTCTCTAAGGTC
ACCAAGATATTAGTTGCCGCTTTGACATTCTTTCTTGGGAAAGATGAAGATGAAAAACAG
GACAGTGACTCCGAATCTGAGGATGATGGACCAACAGCAAGAGACCTGCTAGTACCCTCT
CTTCCAGCACCCAGGCCAGTATTGAGATCGATTCTCTCTATGAAGGAATCGACTTCTATA
CCTCCATTACCCGTGCCCGATTTGAAGAACTGAATGCTGACCTGTTTCCGTGGCACCCTG
GACCCAGTAGA
Sequence=2184;DNA;Homo sapiens
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CAGGAAGGCCGGGTGATTGTGGCTGAATTTGACTCGTTTGTGCTGGTAACAGCATATGTA
CCCTTGTCCTCTTCTTCAGTGACTTAAAACAATTCCAGGATCAGAAGAGAAGCCAACGTG
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AACAATTTCGAGATCCAGAAGTCCCTTGATGGGTTCACCATCAGGTGTTCACAAAAA
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GGTGTCCCTGNAATGATAAACACCAAGGAAAGGCTGCCTTCCCAGTCTGNGACCAAGCGC
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TCATCTGAATTGTCTGAAGTAAGTCATGAATGGAGTCAGGGTAAAAAAAAAAAAAAAAAA
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Sequence=2190;DNA;Homo sapiens

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CCG
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ATTGAATATAATCCTCTATTATTCTTTTCTTGATTTAATTTCTGTAGCTCCCGAAAACTT
ACTTCAATCTTGTTGAGCTCAGAATAAACAGATATCTAAAGAAAAGAGTTTCAGAGTAAC
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TCCGACCTGCCCG
Sequence=2192;DNA;Homo sapiens
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ANGCCGTATTGGGCCGCTCTTCCGNTTTCCTCCGCTCACTGGACTTCGCTNGCCGCTTCG
GGTCCGTNTCGGGCTGCGGCCGAGGCGGTTATCAGCTTNACTCAAAAGGCCGGGTAATAC
GGGTTATCCACCAGAAAATCAAGGGGGATAAACGGCAGGGAAAAGAAACATGTGGAGGCA
AAAAGGCCAGCAAAAAGGCCCAGGGAACCCGTAAAAAAGGCCCCGTTGCCTGGGCGGTTT
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NCAACCTGCATAGTCAAATTTGAGATGGAACTCAGCTACTCCAATATCTGTATTTGCAG
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TAAAGGATTAATATGGGAATAAAAAATGAACCTTAAACCCTGCCACTGATACACAAGCTG
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GTGCCCAAGTGGCAGGTCCATAGTATTGTAAGATTTTTTCAGGGGGCCATTCATCGTCTT
TCCAATCACCTATGGCTATGCTTCATTTTTCACAGGAAGCACAGACTGGGAAGCCCAGAA
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Sequence=2197;DNA;Homo sapiens

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ACCTGCCCGGGTGGCCGCTCGAGGCCGCCCGGGCAGGTTTTATTTAACATTCAAACTTCA
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GGACGCGTACCT

Sequence=2198;DNA;Homo sapiens

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ACAAATTCAGCTGTTTTGCGGCATAGATAAGTGTCTAAGCTGGGCAGTTAGTCTACCCGT
TTATAGTTCATGTTCTTCATGGCTTTGCAGCATTTGTCACTTTCTATGATGTGTTCAAAG
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CACCATGTTGGCCAGGCTGGTNTTGAAAACCCTCGGCCGNTTCTANAAACTAGTGGGATC
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Sequence=2199;DNA;Homo sapiens

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TTTTCCCCCGGNNCCNTATAAAATATTGGGGTCCCCCCCCCNNNCGGGGGGGNNGGGGNAT
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Sequence=2200;DNA;Homo sapiens

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AATCAAGCCTGGCATTTGGTTGCTCACGAATGTCCCAACTACTTCCGCTAGGCCCATCAT
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TACCTGCCCG

Sequence=2201;DNA;Homo sapiens

CGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTCTTCGACCCACGCGTCCGTA
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Sequence=2202;DNA;Homo sapiens

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GGTCTGTGGAAGAGGTATATACACAGATCTTTCTGAATGGGTGAAAAATGTGAGGATATT
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Sequence=2203;DNA;Homo sapiens

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GGCAGGGGAAAATTTCGAATATTCAAAGGCTTTATTCTGAATACCCCGTTCNGACCCTTC
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Sequence=2204;DNA;Homo sapiens

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TABLE 2

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Sequence=2205;DNA;Homo sapiens
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GGTAAAGAGATCTAGCTTGGTCATGACACCCTTGTGTTATACGGTGACAGGCAAATCATT
TAAAAATATCTAAACTATAATTTNCTGTAGTTCACATGAATTGGATATTCTTGAAGCGGA
CGCGTG
Sequence=2206;DNA;Homo sapiens
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TAATAATAAAGGTTGAGTTTTCCAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCACCTGCC
CGGGCGGCCGGCCGCCCGGGCAGGTNTCGGGCCCGAGAAGACCTCCTTTTTC
Sequence=2207;DNA;Homo sapiens
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CNTAACCCTGCACACCTTACTCCTGGTNTCAGAGAGCCCAGTNTGAACATAAACTGNGTA
GAGGTGTTAGACTCANCCTACCCTAGTAANGCCCAACCTCCGAGACCAACCTTAAACATC
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Sequence=2220;DNA;Homo sapiens
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Sequence=2221;DNA;Homo sapiens

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Sequence=2222;DNA;Homo sapiens
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TTAANAAGTCTGTCACCACAATNTTGTCTGGNGCTNGATTTCAAATAATACATTTNTAGA
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AATTGAGAGGCATTCTACAAAACCAATAATTAACCAATATTCATCAAAAGTGTCAAGGTC
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Sequence=2226;DNA;Homo sapiens
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GATGGACAAACAGATGGACTCTACAGCTAAGTGGAATATCAAAGGTAGAGGGGTGATTCT
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TGGGTCGAANACCTGCCCG

Sequence=2227;DNA;Homo sapiens
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AAGAAAGTNTGCTTTAAAAAAAAAAAAAGGAATGGTTATCTTCAAAAAAAAAAAAAAAAA
AAAAAAGT

Sequence=2228;DNA;Homo sapiens
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CCCAATTCTTTGATGGCTTTCACCTGCTCATTCAGGTAATGTGTCTCAATGAAGTCACCG
GACGCGTGGGTCGAAGACCT
Sequence=2229;DNA;Homo sapiens
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AATGGTCCAAGGACTGTTAAACAGAGGAAGTATTTACATTTTGAAAACTTGCGGACGCGT
GGGTCGAAGCTTGTACACCT
Sequence=2230;DNA;Homo sapiens
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TTNGTCTTTAAATNGATACNAATGTCTATCANCTTTAATCAAGTTGTAACTTATATTGAA
GACANTTNGATACATAATAAAAAATTATGACAATGTCCTGGAAAAAAAAAAAAAAANAGT
GCGGCCGACCT
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TTTATTTAACTTGTGGAACAAAAATCGGACGCGTGGGTCGGACGCGTGGGTCGAAGCTAC
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TCTAGTTGGGAAGGGAGACACAAATGTACCT
Sequence=2235;DNA;Homo sapiens
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GCGGCCGCCCGGGCAGGTACTTTGAGCAGGATAATAACATAAATTTCATTTAAAAAGTTG
TATTTATAGCCCCAGTAACCGGAAAGAATTATAAGTAATTATGGAAGTATTATATTCTGA
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GAAT
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TACCACTGGGTTTCAACCAATCTCTGAAAGTTCCTTTATTATGAGTTTTGAAATTTAACT
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Sequence=2237;DNA;Homo sapiens

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TT

Sequence=2238;DNA;Homo sapiens

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GTATTAAAAAAAATGATCTAAGGCTGGTAACAGTGGCCATACTTATAATCCCAGTGCTTT
GGGAGGCCAAGGCAGAAAAATCACTTGAGGCCAGGAGTTTGAGATCAGCCTGGGCAACAT
AGTAAGACCTTATCTCTACCCGGACGCGTGGGTCGACTCAAGACCTGCCCGGGCGGCCGG
CCGCACTTTTTTTTTTTTTTTTTTTTAAGCTGCTCCTTGAGGATAAGGGCTAACTCACAG
GCAGTGCACCAAGAGCCACTATAAAAAGATCCTTAATGAGCAAAATATATCC

Sequence=2239;DNA;Homo sapiens

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TATTTCTTCATTGACCAACTGGTCATTTGCATGTTCTTTAATTACTATGTGTTTGTATAG
TTTTCAAAATTTCTCTTATTAATTTCTAGGTTTTCCTGTGGTCAGAGAAGATGCTTGATA
CTACTTTAATTTTTTGAATGTTTTAATACTTGTTTTGTGACCTAACATATGATCTACCCT
TGAGAATTATCTATATGCTGAGGAAAATAATGTGTATTACACAGCCATTGGATGAAATAT
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Sequence=2240;DNA;Homo sapiens

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TGTAGAACTGTAGTAAAAAAGATGGTGAATCAGGCTGAATCAATCTAAATAACAACTTAA
GGCTCCCAAATCACATGAACCTAGGACCACTAAATCCAATGTCAGACGTGTTTAAATGGT
GCACTGCTCTACATTTTTCTATTATGCAAAGAGCTAGAAAATAATGGTAGTGTCATTATG
ACATTCCATGAAAATGAANGAAAATCTTTCAGGAAAAATTAAGAAAATAAAAATGTTTAC
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Sequence=2241;DNA;Homo sapiens

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TGCCCGGGCG

Sequence=2242;DNA;Homo sapiens

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ATATAAAAATATATGCTGAATTACTTGTGAAGAATGCATTTAAAGCTATTTTAAATGTGT
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AAATTTGTATAACCCATCCTGCTGTTCCACCTGCCCCGGGCCGGCCCGCTCTAGAAACTA
GGTGGGATCCCCCGGGCCTGCAGGGAATTCGATATCAAGCTTAATCGATACCCGTCGACC
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Sequence=2243;DNA;Homo sapiens

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AGAGGTTGCAGTTAGCCAAGATCATGCCACTGCACTCCAGCCTANGCAACAGAATGAGAC
TCCATCTCAAANNAGAAAAAAAAAAAAAAAAAAAAAGTGCGGCCACCTGCCCGGGCGGCC
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ACAAAAGGGCCACTGGCCCCTTCC
Sequence=2244;DNA;Homo sapiens
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AATGCTAGGGNGAGTGGTAGGAAGTTTTTTCATAGGAGGNGTATGAGTTGGTCGTAGCGG
AATNGGGGGTATNCTGTTCGAANACCTGCCCGGGCGGNCGGCCNCACTTTTTTTTTTTTT
TTTTACTTTGGCNGGGGNTTTTTTCTTTTCTTTTTTTTTTCAGCTACNGGAATTTANCCN
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CNNCCCNATAAGAAAAAGACTGAAATAACAACAACNACTTTAANAAAT
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ANCTTGACCT
Sequence=2246;DNA;Homo sapiens
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TTTTAAATGACATTTTTGATAAATTATGTTTGTACCTGCCCG
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TACCTGCCCG
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TCAGTTTTGCTCCAAACCAAACTCAAACAACAGCAGCCACTGGAAATCAAGGAAACTTCA
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TCGAAGCTTGTACACCTGCCCG
Sequence=2249;DNA;Homo sapiens
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ATTAAGAAAAGTTGGTTAAAAAAAAAAAAAAAAAAAGT
Sequence=2250;DNA;Homo sapiens
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ATTGATCACCTCTATGTGCTCAGTACCT
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Sequence=2252;DNA;Homo sapiens
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Sequence=2253;DNA;Homo sapiens
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GACTGCCCACCATTGACATCGATGATCTGAAATCCAACACTGAATACCACAAGTACCTGC
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CATTTGATTGTTTGGCTAAGAAGAAAATTATTTATTAGACTTAATTTTCCTCACGAGTTT
AAAGATTGCTTCAGATCTTAAACTTCTAATGAGGAAAGCTGAGA
Sequence=2254;DNA;Homo sapiens
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GGTACCTGCC
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Sequence=2258;DNA;Homo sapiens
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Sequence=2259;DNA;Homo sapiens
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GGGTCGAAGACCTGCCCGGGCGGC
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TTGTACCTGCCCG
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TTTCCNNNCGNNNCTTTTNNAAAANNGNGGNACCCCCCNGGNGGGGGGGANNTTTTTTAA
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Sequence=2270;DNA;Homo sapiens
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Sequence=2271;DNA;Homo sapiens
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Sequence=2272;DNA;Homo sapiens
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AAAAAAAAAAAAAAAAGT
Sequence=2273;DNA;Homo sapiens
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Sequence=2274;DNA;Homo sapiens
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Sequence=2275;DNA;Homo sapiens
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Sequence=2276;DNA;Homo sapiens
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Sequence=2277;DNA;Homo sapiens
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CTTAAGGCTTTAGGATTTTCAGAATGGTAAATGAGCACTGGCTTCAACTTAGTCACCAGC
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Sequence=2278;DNA;Homo sapiens
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AAAAAAAAAAAAAGT
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TABLE 2

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Sequence=2294;DNA;Homo sapiens

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Sequence=2295;DNA;Homo sapiens

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Sequence=2296;DNA;Homo sapiens

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CGTGGTGGCAGGCGCCTCTAATTCCAGCTACTCAGGAGGATGAGGCAGGAGAATCACTTG
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Sequence=2297;DNA;Homo sapiens

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TAGAGAAAGAAGGTAACTTTGCTGAAAGCTAGTCTGGGGAGTTAGTAGCTGATACAGATC
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Sequence=2298;DNA;Homo sapiens

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Sequence=2301;DNA;Homo sapiens
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Sequence=2305;DNA;Homo sapiens
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Sequence=2306;DNA;Homo sapiens
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ATAACCATGCTCAGCAATGAGCTATTAGATTCATTTTGGGAAATCTCCATAATTTCAATT
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GGCAGAANTAAAAAAAAAAAAAAAAAAAAAGT

Sequence=2308;DNA;Homo sapiens

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Sequence=2309;DNA;Homo sapiens

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CCTGCCGCGGC

Sequence=2310;DNA;Homo sapiens

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Sequence=2311;DNA;Homo sapiens

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Sequence=2312;DNA;Homo sapiens

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Sequence=2314;DNA;Homo sapiens

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TABLE 2

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TAAAAATACAAACATTAGCTGGGCGTGGTGGCAGGCGCCTNTAATTCACTACTCAGGAGG
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Sequence=2316;DNA;Homo sapiens

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ACAAATTCTTTTATACAAATGTCGAAAATGGCTTTCAACAAACCTAAGTGTCCTAATTAC
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AAATTTNGGGNCCCGGGGTTTTANTTAAANNACTNTGGCCNTTTTTNAAATNTGGGGNCC
CCCCGNGNGGGGGNAAATTTTTTTATATAAATTTTTTTTTNCCCCCCCCCCCCCCTGGGGG
GGGNGCCCCCCCCCCCCCNTTTTTTTTTTTTTTTTTTTTNNGGGGGGANNAAACTCNNCNCG
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Sequence=2317;DNA;Homo sapiens

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Sequence=2318;DNA;Homo sapiens

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TTCAAGGGAAGAAACACTCTTATTCCCAAACTACAGAATAATGTGTNAAACATGCTAAAT
AGTTCTATCAGGAAAACAAANCACTGTNTTTATCTCCGNAGGCTATTTGNTCAGAGAGGC
CTTTTGNTTAAATATAAATGTTTAAATATAAATGTTTGTCTGGATTGGCTATAACATGTC
TTTCAGCATTAGGCTTTTAAGAAACACAGGGTNTTTGTATTCTTTACTAAAGATATCAGA
GCTNTTAATGTTGNTTANATGAGGGNGANTGTNAAGTACCTGCCCGGGCGGCCGGCCGCC
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Sequence=2319;DNA;Homo sapiens

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CTACGAGTTCTGCTGATCAGGAAATTTAAGAATTTATCTTAAAAATGCAAGGAAAAAAGA
CTGCCTTGGCAATTGTGAATGCTGCTTTCAATCTCCTAGCACCGAGCCTGGCACTTAGGC
AGCTTTCAGTAAGTGGGTGAATGAATGACTGAATGAATGAATGAATGGCTCAGCTGAGGA
ATGTAACTTTGGTCAAGACCT

Sequence=2320;DNA;Homo sapiens

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CCAAAGGGTGGGGAA

Sequence=2321;DNA;Homo sapiens

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TGGGAGCTCCACCGCGGGTGGGGNCCCGGGGGGNCCCCNCCCGGGNNNNAAANAAANGGG
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TTTTGGGTTTTTAAAATTTTTAAAAAGGGGGTTNGGGCCCCCCAAAAAAAAAAAAAAAAAA
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TTTGGGGAAAAAAAA
Sequence=2322;DNA;Homo sapiens
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Sequence=2324;DNA;Homo sapiens
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CAGTTTTCTGAGTTAGCTATTATTTCCACCATAAAATTGGGGGTAAGATTTGGCAAAAAA
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Sequence=2325;DNA;Homo sapiens
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Sequence=2326;DNA;Homo sapiens
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AAGTGCGGGCCGACCT
Sequence=2327;DNA;Homo sapiens
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CCTGCCCGGG
Sequence=2328;DNA;Homo sapiens
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Sequence=2329;DNA;Homo sapiens
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AAATTGAGCATTAAGGGAATGCAGCATTTAAATCAGAACTCTGCCAATGCTTTTATCTAG
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TCTTTTTTTTTTTTTTAGCAGTTTGAGTTGGNGTAGGGGTATTCTTGGGTTATCAGAATAC
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Sequence=2330;DNA;Homo sapiens
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TAAAATATTTACTATGTAGCTTTTTCTTTTCTTTTTGGAGACAGTNTGCCACTCTATTGC
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NAAGCAATCCTCCCGCCTCGGTCTCCCAAGTAGTTGGGACTACAGGCATGA
Sequence=2331;DNA;Homo sapiens
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Sequence=2332;DNA;Homo sapiens
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AAAAAAAAAAAAAAGTGCGGNCCGNTCTANNAACTAGTGGGAT
Sequence=2333;DNA;Homo sapiens
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CTTGAGTTGTAAAAAAAAAAAAAAAAGT
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CAAAAATCTGTCTTGAAGGCAGCTACACTTTGAAGTGGTCTTTGAATACTTTTAATAAAT
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Sequence=2335;DNA;Homo sapiens
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Sequence=2336;DNA;Homo sapiens
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GCGACCTACGAGGGGGGGG
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GCCCTCTGAAGTAAAAACCGAAATGAGNTTTCTTAGGCAAATGTATTCATCAGCCCAGAT
AAAAAAAAAAACCANNTAATGNGAGCCNTTAGTCACTGCT
Sequence=2338;DNA;Homo sapiens
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AAGAAGAGTTTTTATTACA
Sequence=2339;DNA;Homo sapiens
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AGTCTTTCTGGCTGGTTTGAGCGGACGCGTGGGTCGACACCTGCCCG
Sequence=2340;DNA;Homo sapiens
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TAAAACC

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Sequence=2341;DNA;Homo sapiens
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GTCCGGNGACATCATTNTGCACTGCATAGCCCA
Sequence=2342;DNA;Homo sapiens
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TTTTGTTNGTTTGATTTTTGTTTTTGNTTTTTTAGCAGNAGGCCTCAACAGNGGACTTAA
AATACTCAGTAAACCATGCTGTTAACAGATAAGCTGNCATCCAGACTTTGNTGTTCCATT
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AANTGAGCACTGGCTTCAA
Sequence=2343;DNA;Homo sapiens
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CAAAACANGNANGNAAGNNNNCACGNGCTTTTTTTAAAANATTTTTTTNNNNGGGGGGGG
GGCCCCCCCCAAAAAAAANGAGGACGNNGGAGCCCCCCC
Sequence=2344;DNA;Homo sapiens
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CTGAGNTTCCTCAGGGAAA
Sequence=2345;DNA;Homo sapiens
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Sequence=2346;DNA;Homo sapiens
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GTTTTGGNGAGGGACACAACACNTTTCAGGGGACAACCGTGGTACCTNGGCCGGTNTAAA
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Sequence=2349;DNA;Homo sapiens
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AAGACTNACAACANATATTGACCCTAGTCGTAAAGAAATCCATAATTGCCAGTAACACGA
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Sequence=2350;DNA;Homo sapiens
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TAACATCAATAATGTAAAGTGGGGAAGGGCAAGGTGGAAAAGGAGTAGAATGCTTGTATG
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AAAACAATNATGGNGAAAAATAAAGACA

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GACTACTTTCATAAAAAATTTTACTNTACATACAATGTATTGCAAATTTTTNGGCAAC

Sequence=2352;DNA;Homo sapiens
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TTAATGTTTCATGATTTCTACCTCCAAAGTGTGAAGACAAGTNAAACAATGNTTCTAAAT
TGTCTTATTTTGTTGGCGGAGAAGATTACAATGGGCTATTAGTGCTACATTTGGTCAAAT
GTAATCACTTAAATAGCTTCTTGTCACCTTAACTAAAGCAGAATAAAAAAACCCTGCCCC
GGGGCGGCCGGNCCCGCCCCGGGCAGGTACCATTCCCGACGTTTGCAATGGTGGGAGTTG
GCAGGTGTG

Sequence=2353;DNA;Homo sapiens
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGCTTCGACCCACGCG
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TGAAGGACGATTTGGAATTTTGAAGTGTGGGGAGACAGGCCTGTGAAGTCCGAANGACTC
ACTTGGGGT

Sequence=2354;DNA;Homo sapiens
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GT

Sequence=2355;DNA;Homo sapiens
ANGTTTTTTTTTTTTTTTTCANTGCTTCCCAAAGCTGCGGACATAAGGGTAGCTGANCTG
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GTCCAAAATGTGCTGCCCCCTATGAATTCCACATCAGGAGTTGTAGGAGATGAGGTTAGA
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Sequence=2356;DNA;Homo sapiens
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TGATTTCTTGTGAGATCCGGTTGTTTAAATCCAGAGGCACCTNCCCCTACCCTCTAGCTC
CCATTCCTGCCATGTAAGACACCTGCTCCCCCTTTTTCTTACCCCATGATTGGAAGCTTT
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Sequence=2357;DNA;Homo sapiens
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Sequence=2358;DNA;Homo sapiens
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CTAAACACAAAAAATAAAAAA
Sequence=2360;DNA;Homo sapiens
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CAGACTTGGGTAAAATCTGTAAGAAAAGTNCCATAATTATGGGGGGAAGATTTCCTCTTG
AATTGGCTTAAATNCCTGTTAGCTGAAAAAAAAAAAAAAAAAA
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Sequence=2362;DNA;Homo sapiens
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Sequence=2363;DNA;Homo sapiens
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Sequence=2367;DNA;Homo sapiens
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CGCTACCTGCCCGGGCT
Sequence=2368;DNA;Homo sapiens
AGGACAATGCTGTAGATAATGCAGCCCATGCAATACACCCAAGAACACTAGAGTCCTACA
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TACTGCAGCCATGTTGGTTATGATTTTCCATGCAGAAGGGTACAGTTAGTTCATATTTAT

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GTATTGCACATAATCATGCTATTCAGCATTGATGCTATATTGTATTATGTAAATAATAAA
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Sequence=2369;DNA;Homo sapiens
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Sequence=2370;DNA;Homo sapiens
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Sequence=2371;DNA;Homo sapiens
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ACAACAAGGGTCAGCCTACAGGCAAAACACATCCCATTGTCATTTTTTTGTAAATAAAGT
TGTATTGGAACATGGCCACTCTCATTTGTTTTCTATTATTTATGGCTGCTTTCACTTACA
ACCTGAGTGGTTGCCGCAGAAACTGTATGGCCTGCAAAGTCTAAAATATTTACTATGTAG
CTTTTTCTTTTCTTTTTGGAGACAGTGTGCCACTCTATTGCCCAGGCTGGAGTGCGGTGG
TGTGATCATGGCTCATTGCAGCCTCAAACTCCTGGGCTCAAGCAATNCTCCCGCCTTGGT
CTNCCAAGTAGTTNGGGACTACAGGGCATGAGCCCNCCATACCCCGGNTAATTTT
Sequence=2372;DNA;Homo sapiens
CCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGCGTCCGGAAAATGTTTTCTTTTTTT
AATTTAAGGTTTAAAATTCCTTTGCCAAATCAAAAAAAAAAAAAAAAAAAAAAAACGNT
NGCNTGCCNGGCCGGCCGGCCGNNCTTACTTTTTTTTTTTTTT
Sequence=2373;DNA;Homo sapiens
CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCTTGAGTCGACCCA
CGCGTCCGATAAAACACCGCCTTCAGTGTAAAAATTTTACATGGTATCTGAACAACATTT
ATCCAGAGGTGTATGTGCCAGACCTTAATCCTGTTATATCTGGATACGTGAGTATTTTCC
TGTTCCTTTTTTTAATTAATATACTCCTTGCCACCAACCTTTATGTGGTTCTAAGAAAATT
GCTGAAATACTTTCTTTATTGCTTTTGAGATTTTACATTATAATCATTAACATTACTTTC
TAAATTATTTTAAAAATATATAAATCACATGGATTAAAAAACTTTTCATAACTTGAAAAT
TTTCCTTTAGATTAAAAGCGTTGGTCAGCCTCTATGTCTGGGATGTTGGAGAAAACAATC
AAGGAGGCAAACCATTAATTATGTATACATGTCATGGACTTGGGGGAAACCA
Sequence=2374;DNA;Homo sapiens
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ATCAATTGCCAAATTCAGTCTGAAAACATTTCACACACAGCTTACCCAAGTATAAAGCTG
CTGGGGGGACTTCTGAAAANTTGGCAACATTCATTNGGGGCTTNGAAATGCTTTACAAGG
GGAAGGNTTTTTTAANGCAGGGCTTACNTGGGTTTTCCCCCAAGGCCCCTGGNNANGTTT
NCCNAAAATNAAAGGGGGGGGCCCCCCCTNGNNGNGGGTTTTTTCCCCNNNCCNCCNNAN
CATNANGGGGNGNGCCCCNCNCNNTTTTTNTTTTTTAAAGGGGNAAANTTTTTNCGNGNN
TNTGAAAAAAGGGTTTTTTTAAAACCCCGGGGGGGTTTNTNTNNTTTTTTTAAAAAAATA
TTTTTAAAAAGGGGGGGGGGNNGNTGGGNNTTTTTNTGGNGGGAAAANNTNTNACACCCC
NNTAAAAANGGGGTTTTTTNCCNNATTTTTTTTTTNCNNCCCCAAAANANGGGGGGGGGG
GGGGGGG
Sequence=2375;DNA;Homo sapiens
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AGAGGTTAAGGAGGGT
Sequence=2376;DNA;Homo sapiens
TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACGC
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CAAATGTTTTGTAGAATGTCCTTAAACTTGGGTTTATCTGAGGTTTCCTTGTGATTGAAT
TCAGGTTAGACATCTTTGATGGGACTGTCATAGAACTGATGCTGTGTTCTAATTGCATCT
TATCAGGTGACTTATGATTTCTGTTTGTCCCATTATTGATGCTGTTACTTAGATCACTTG
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GAGACCCCATCTCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANGTGCGGCCGGCCGC
CCGGGCAGGTACATGACTATATCAGGATTTCAAATTGAGGAAACCATTGACCGCGAGACT
TNTGGCAATTTANAGCAACT
Sequence=2378;DNA;Homo sapiens
CCGCGGTGGCGGCCGAGGTACCTATTAAGCTCATGAACCATAGAGGTATCTCGGTGGCCC
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ACTTCAATCCATGTCTTAGAGAAGAATGCACATGACCCCAACATGAAGATGATATAAACA
ACGACATGGACAG
Sequence=2379;DNA;Homo sapiens
TNCTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGGCCGCACTTTTTTTTTTT
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CTTTCAATAATAAAATTCAATAAATTTGATTCCTTAATCATAAAAACTTGCTTTACA
Sequence=2380;DNA;Homo sapiens
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Sequence=2381;DNA;Homo sapiens
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TTAAAGTTAACAGTGTAACATGTATTATGGTAACTTCTAATCTTGTGGCCTTAGACAGTC
TAGTCCAAAGGCATAAAGAAAGTTTGCTTTAAAAAAAAAAAAAAAGGAATGGTTATCTTCA
AAAAAAAAAAAAAGTGGGGGGAGACAGAATTTATGTAAAAAGAGTGTTATATGGTAAATT
CTTGTCCTGAAATAAACTAACTGGTGTTTAAAGAAAAAAAAAAAAAAAAAAANGT
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GGGGG
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GANTTCGATATTNAACTTTTTTNGAAACCCGCCCNCCNCNNGGGGGGGGGGCCCCGGGCC
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Sequence=2384;DNA;Homo sapiens
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AAGGGATGNNNTTGGGGGTTTAAAAAAAACCCNNGGCANNCNTTTTTNGGGTNNNCCCCN
ANCCCCAANNNGGGGGGNNTNTTTTGTGGGGGGGGTNGNNTNTTTTGGGGGGACNCAAAA
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AAAAAAANNNGNNGNCCCCNNNTTTTTNNNGGGGGGGCCCNAANTTTTTNTCNNTNAAA
AAAAAAATCTCCCCCC
Sequence=2385;DNA;Homo sapiens
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AATTTATTTCAGGACAAGAATTTATCATATAACTCTTTTTTATATAAATTCTGCCTCTCCC
CTTTATTTTTGAAGATAACCATTGTTTTTTTAAAGCAAACTTTCTTTATGTGTTTTGACT
AGACTGTCTAAGGCCACAAGATTAGAAGTTACCATAATACATGTTACACTGTTAACTTTT
AGCAAACTTCACTTTTGTTGAAAACCTTATAAGGTTTGGGGATTTCAATTATCCTTTGCT
ATTAATAAGACCTTGTTCAGTCTAAATTAACTTAAA
Sequence=2386;DNA;Homo sapiens
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CAGATTTTAAGTGCTGTGGGGCTGCTAACTACACAGATTGGGAGAAAATCCCTTCCATGT
CGAAGAACCGAGTCCCCGACTCCTGCTGCATTAATGTTACTGTGGGCTGTGGGATTAATT
TCAACGAGAAGGCGATCCATAAGGAGGGCTGTGTGGAGAANATTGGGGGCTTGGCTGAGG
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AAATTGNCTTTGCCCTGCTTGCCTCGTGAAGAGTTTTAANAAGTNNCTTCCNNAGGNTNA
NNTAAGGGTNTCTTNGGTCTTTNTNANNNCCTTCNTTANTTTGGGGGGNG
Sequence=2387;DNA;Homo sapiens
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AACAAAAAACAGTTAGGCAAAACAAACAATGGCACAATTTATATGATAACTGAGTGCTCT
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CCAA
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TTTAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAAGAAGAAGATCCG
CACGTCACCCACCTTCC
Sequence=2389;DNA;Homo sapiens
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TTNACTTNAAAGCTATTAGTAGTTTTATACTCNCTTAATAAGTATTAATAAATTTACATA
CTNGACTTAGTAANCTAAGCAATTTGGNTAACGTNTTTNTTTATTNGAGNGANTTTTTGC
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Sequence=2390;DNA;Homo sapiens
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TTTTTTTTTTCAGTATGCAAGCTTGCAAGATGAAAATAAAACCTGTTTGCCTGATAAAAAA
AAAAAAAAAAAAAAAAAAAAAATGT
Sequence=2391;DNA;Homo sapiens
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TCTTATCCCCATTCTTGATGTAGACCGGCCGCCCGGGCAGGTGCACATACACCAAATGTC
TGAACCTGCGGTTCCTCTCGTACTGAGCAGGATTACCATGGCAACAACACATCATCAGTA
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Sequence=2392;DNA;Homo sapiens
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CCCCCAGGCTGGAGCCATTATAGCTCACTACAGCTTCTGACTCCTAGGCTCAAGGGATCC
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CTTTGTCTNAAAAAAAAAATTNTTTTTTTTAATTAAATAAAAAGGGNCAGGGGATTTTTT
GGGAAAAGGTCNAAAANAAAATTGNNCTTTTTGAAAAAANCCTTGGNAAAAANCCAAAAA
AAAAATTNGGNGGGAAAAAAATNNTTTNNTTNNGGGANAAAAAANAAAANAAAAAAANNT
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ANAAAAAAAAAGGGNGCCCCCCCCCCCNNGNGGNAAANGNGNTNTTNNTAATTTTTTTTT
TTTNCCCCCCCCCCCCCCNGGGGGGGGGGGN

Sequence=2393;DNA;Homo sapiens

GAGACACAGTCTCACTCTTGCCCAGGTTGGTCTAAAACTCCTGGGCTCAAGCAATCCTCC
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AGCCTTGTCCTTTCTCTCCTGCCAGTTCTAGGGGACACTGCTTCTCCTGGTTGACCTCAT
CAATGCC

Sequence=2394;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTTTCAAGGACCAGCCTGGCCAACATGGTGAAACCCCATCTCT
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GCTACTGCACTCCAGCCTGGACAACAGAGGGAGACTCTGTCTCAAAAAAAAAAAAACCTA
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TGCAATAT

Sequence=2395;DNA;Homo sapiens

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GAGACCACGTCGCTGCACTCCAGCCTGGTTGACAGACCGAGACTTCTTTTTCAAAAAAAA
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GCCCCGGTACCCCAACTTTTTT

Sequence=2396;DNA;Homo sapiens

CTATACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCAAGCTTCGA
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TTGAACTTGGTGTAGACACAGGGATACTGATGAATCAATATTCAAATTAGCTGTTACCTA
CTTAAGAAAGAGAGGAGACCTTGGGGATTTCGAGGAAG

Sequence=2397;DNA;Homo sapiens

GCTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAGAGTCGGGAT
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CTTAAGCACTGAGCCACCCGGGTTTAGTTCAGCCATTTCAAGAAGTATATTTAACGTCGG
TAGTTCTGCTTTATTAAAATGCAGCAGAGGTACCTGCCCGGGCGGCCGGCCGCACTTTTT
TTTTTTTTTTTTTTTTAATGAAATTGAGGATTTAACCAAAATGTGAGTTCTAATTAGGACA
ATAAAATTAATCCTAACTACATTTCCTTATAAATACAAAAATGTGTTTTGGAAACACATC
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Sequence=2398;DNA;Homo sapiens

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AAACAACCACCAAAAAAAATCAATTGGCTAAAAAAAAAAAAAAAAAAAAAAGTGGGCCGC
TCACCT

Sequence=2399;DNA;Homo sapiens

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CACGCGTCCGGACAGCTCGTGTCCACAGGGGTCATGGGGTCTCTTGCTGCTAGGATTCTG
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TAATGGGGGCTAGTAAGGAATGCTAGTGCTTGGAAGCCCTGTGCAGGCTTCTGAGATTCC
TGCCCCCTCAGCCCATGCTCTGCATCCTCCCTTCATCCACCCTCAATGTTTTCCTTCAAA
AGATCTGCTCAGAGTGTGCCAGTCTTCCCAAATTCCTGGTCTCTCCATGAGAGATGTTCT
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Sequence=2400;DNA;Homo sapiens

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TTTATATTTTACATTCACCTNTCANAATATTTAATGGNACCTGCCCG

Sequence=2401;DNA;Homo sapiens

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TACCATGGCAACAACACATCATCAGTAGGGTAAAACTAACCTGTCTCACGACGGNCTAAA
CCCAGTAGAAACAAAGT

Sequence=2402;DNA;Homo sapiens

ACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAAAGTTA
TTTTAGTCATGAAATTTTATATGCAGAGAGAAAAAGTTACCGAGACAGAAAACAAATCTA
AGTCGA

Sequence=2403;DNA;Homo sapiens

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AGGTTGCAGTGAGTCGAGGTTGCGCTACTGCACTCCAGCCTGGACAACAGAGGGAGACTC
TGTCTCAAAAAAAAAAAAACCTACAGCTGTTCAAGGACCAGCTGACAGGTCAAGTGTGGC
CTTTTCTGGTCTTTGAACACATCATAGAAAGTGNCAAATGCTGCAAAGCCATNAAGAACA
TGAACTATAAACGGGT

Sequence=2404;DNA;Homo sapiens

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Sequence=2405;DNA;Homo sapiens

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Sequence=2406;DNA;Homo sapiens

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GTTGGTTGATTGTAGCGGACGCGTGGGTNGAAGCTTGACCTNGGCCGCTCTAGAACTAGT

Sequence=2407;DNA;Homo sapiens

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TTTCCTTCAGGTCATGACCAGCATGAAAAAATNAGACACAGACACTCAGCAACCATTCTG
TAAATGTGTACCT

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CTACTTAGGGCGATTGGNNCCTCNCNGNGGGGGCGGCCGAGGGCCTGATCTAACTGCTGC
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GCTTAACTACTCANCCCCAGTCTTNTTAGCAGATGGCAAGGAGCTCTGGCCAAGATTTTA
GTCTAAACAGAACCCTAGGCTGCTGATGCAACATCAAGCAC

Sequence=2409;DNA;Homo sapiens

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AAATTNGGCCCAACCCCCCCGGGGGGNGGGGGGCCNTTTTGGNNTTTTTGGCCCCNNNTT
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Sequence=2410;DNA;Homo sapiens
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CAGACAGGGCAAAGAAAATGGGACTGGTTGACCAACTGGTGGAACCCCTGGGACCAGGAC
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AAAAAAAAAAAAA
Sequence=2411;DNA;Homo sapiens
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Sequence=2412;DNA;Homo sapiens
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Sequence=2413;DNA;Homo sapiens
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AAGAGAAACTTGAAGAGAATCATGCTGTTGCATTTAGAACTTTCTGCTTTGCACAGGAAA
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Sequence=2415;DNA;Homo sapiens
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GAGGCTGAGGCAGGAGAATCGCTTGAATCCAGGAGGNGGAGGTTGCAGTAAGCCGAGAAC
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AGTGCGGCCGNCCGNCCGGGCAGGTCCTAGCTTGAGTCGACCCACGCGGTCC
Sequence=2417;DNA;Homo sapiens
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CAC

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Sequence=2418;DNA;Homo sapiens
ACTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGCACTTTTTTTTTTTTTTTTTTT
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TATACCTTTTATATTTTACATTCACCTNTNAAAATATTTAATGGTACCTGCCCG
Sequence=2419;DNA;Homo sapiens
ACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCACG
CGTCCGTGGTGAACACAGAGAAGACAGGTCTTGTATATATTCCTCTGTATTCTGGGGAGC
TTTGACCTTGGAGCTTTGTACCTGCCCG
Sequence=2420;DNA;Homo sapiens
CCGGGCAGGTCTACTCAAGTAGTCTTTACCCCCTACTCAAGTAGGGGGTAAAGTGTAGAA
CAAGGAGTTTGATCTGTGTTCAACTGATTGTGAACCATCAATTGAGATAACTCACTACCT
TCAAGGCCAGCCAGNTACATACTTTTTGNAAAAGCCAAGAGTGGAANCAGGGTTGGTTTT
TAATCCAATTTTTGGGC
Sequence=2421;DNA;Homo sapiens
AGGNCGACNTTNTCACAGGCAGNNAAACCGGCCAGNTNAAAACACTATGCTANCTCGCGG
GGCCANTNTTAGGATGGGTGAGGCAGATGAANCCATTCTCCNANTGGCCAAGGCCGAGGG
CATCAGCCTCAAAGAACNTTTGACNGGAGAGAATCACANACGTGNNNTATTCGTCATAAA
NAAANAATGAAAAACCNACC
Sequence=2422;DNA;Homo sapiens
AGGTATTCGACCCACGCGTCCGTAGTTTTTATCTTTGACCAACCGAACATGACCAAAAAC
CAAAAGTGCATTCAACCTTACCAAAAAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGGCC
GCCCGGGCAGGTACCAGTAGCAACATATGAGTATTTCTCTAGATAACTTTTTTTTGACAA
GGTCTCACTCTGTTGCCCAGGCTGGAGTGCAATGGTGCAATCTTGGCTCACTGCAGCCTT
GACCTTCCCTAGCTCAGCTGAACCTCCCATCTCAGGACACCATTGCCTCCACTGCCCATC
CTGCATCTGCCTGCCTACCCCAAAAGT
Sequence=2423;DNA;Homo sapiens
AGGTACATTTTCACTCCTGCTCTAAAACTTGCCTCAGTCTCTCACTGTGCCTTATGCCCC
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TTGCCACCAGTAACATACTTGGTGCCACATGACTAGGATATGTTCTCTAGTGCTAACATG
TTCGTTTACAGTTCTTAGGACTCCCTGATAGAAAAAAACACAAAAAAAAACACAAAAAAA
CCCAACCAACCAAACAAACAAACAAAAAAAAACACAGGAGTTTCTCCCAAAAAGAAGTCT
GCAGTGTCTTTTTCTGTTTTCTCTGAAGGTATCCCAGGGTGTTAGAT
Sequence=2424;DNA;Homo sapiens
AATGTTGCAGGCTACTCTCTGCCGACCAGGCCGCCGCCCGTCCCTCGTGACTACAGCAGG
TACCTGCCCGGANGNNNNNNANGNAACGNATGTTTCCACCTNCTTCTCCAACCTCTACCC
CACCATTAGTNGTATNTTNACTNTNAAAACAGTGGAACCACAGCCCTAAAGACCTGCTNA
TNNAAAGTNCTTTTGTCTTAATTGTATTTAAAAAAAAAAA
Sequence=2425;DNA;Homo sapiens
GGGGAAAACCCAGCTCCACCGCGGNGGCGGCCGCCCGGGCTTTTCAAGCNTCGACCNACC
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AAAAGAATTATTTTAAAAAAAAAAAAAAAAAAAAGGGACCT
Sequence=2426;DNA;Homo sapiens
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TATACCTTATCATATCTGCCTATATCACTTACTTTGGGGAGATACTCAGAGCTTTGTGGT
TATCAGTATACTAAAAAAAAAAAAAAAAAAAGTGCGGCCACCTGCCCG
Sequence=2427;DNA;Homo sapiens
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TAGACAGAGAGGCACCTGGGTCAGTATTAGTCTATTTATCAGAGGTGTAAATAATCTATG
TATAAGTTTTTCTCCTTTTAGATTATTTTGTATTTGTTTAAAAGAAGTTTTGTCAAAATA
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AATTGTTTTTGTTTGGTTTGTTTTTGCCTTGTAAACTAGCGCCAAGGAAC
Sequence=2428;DNA;Homo sapiens
CGGGCAGGTACGATGGGAGGACAGCTTTGTAGAAAGGACATTATNCAGCTNATAGCAAAC
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TABLE 2

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GCTGTANCAGNATTTGTATACTCCAGAATAAGNTTCTGTGATTCTTANCTGCCAATGTGT
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TATTCCCTANGANTTCCGGCCAAGTACCTTTGGNCGCCACCCGTGGTGGGAGCTCCAATT
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Sequence=2429;DNA;Homo sapiens

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GCTTCCTGCCAAANAA

Sequence=2430;DNA;Homo sapiens

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CCCACGCAGGCCNCATTGTGTGCAAAAACTGNGGNGGGGGCTGTGCTGNACTCNTNCCTG
CCTCCTGCCTCCTGCGGCTGTTGGATTTGGGAATGACCTTTGGTGAGAGNCTCACTGCTC
CAGGGTCTATTTTTTGGTCCAAAGGCTAGAACCTATANAAGTNGGGAATCACCTNTTTTT
TCTTTTTCNNGGGTGAAAATAAAATGGGTTTTTTTCAANTTCNAACAAAAANAAAAAA

Sequence=2431;DNA;Homo sapiens

AGGTACAGAGAACTGAATTTACACAATAAAGTGTTACCCTATACCAGTGATTCTAAAATT
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TTTTGCCTGTTATATTCTCATTCTCGAGTATACAGTAGAGTTTTCCAGAGGCCACATGAT
CCATGACATCACAACAAAATGAATAGAGACAGATGAAAATCTAGCTGGCTTCTGCTACAT
GAATCAGACATTAAGGGGTCCAGAGACCATAAAGTGTGACAACCACCACTCTTCACAACC
TATATATAATATCTCAAAATAATGTTAATTCTCTATCCTCAAAGTTTATTTCCTTATATC
TACATTTTCTATGATCAACACACTCACTACAAAA

Sequence=2432;DNA;Homo sapiens

CCGGGCAGGTACCACAAAAACAGTTACATGGTAGAGTTCCAATCACACAGAAAGGAATCC
ATTCAGCAAATTTCCAAAGTTGCAGACTGTTTGGGCCCACCCAGAATTCCACCAGGACTG
GACGGCCCCCACCAGGCTATACTGGATATGTGGACACAGAGCTTATGCTAAGCTGCCTGA
TCAGGACAGGTAGCTGTATAATTGGCACCATTAAGCCATCTTTCTTCTTACTGCCCATAA
AAACAGGTGAACTTCTAGGCTTCCCAGTCTATGCTTCCTGCAAAAAATGAAGCATAGCCA
TAAGTGATTAGAAAAATAATGAATGGCCCTCTGAAAGAATCATACAATACTATAGACCCG
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Sequence=2433;DNA;Homo sapiens

AGGTACCTTGGGATTGCAGGTGCCCACCCTTGCGCCTGGCTAATTTTTGTATTTTTAGTA
NAGACGGGGTTTTGTCATGTTGTCCAGGCTGGTCTCGAAGTCGAGCTCAGGTGATCCGCC
CATCTCAGCCTTCCAAAATGCTGGGATTACAGGTGTGTGCCACCATGCCCAGCCAACACA
CACATTTATTTAATGCAAGTTTTACCTAGCACAGAGAAGCAGTGAGAGTCAGTTACTTAT
ATATTGAATTGGACCAAGTAACTTGTGAAGAAGCTAGTAAATATATGGAGGCTAAAAAGC
TGAGTGGTTCTGTTCTAACAAGGTCTGCACAGTAATCTCTTGGCCTCGACTTCTCATCCT
TAAAAATAAGGAGATCGTCCTATGTTTC

Sequence=2434;DNA;Homo sapiens

NNGGGGGGGGGGGGCCCCCCCCCNGGGNNNAAAAAAAAAANATTTTTTTTTNTTNTTTTT
TTTTTNAAAAAAAAAAAAAAAANNNGGGGGGGGGGGGGGNGGGGNGGGTCTTTTTTTN
AAAAAAAAAAAAAAAAAAAAACCCCCCCCCCCTNNNTTTTTTTTTTTTTTNTNTATNAA
AANNGGGGGGGGGNNNNNNNNNNNNNNNANATNTNTTTTTNNNNNGGNGGGGGGGGGGG

Sequence=2435;DNA;Homo sapiens

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ACAAGATGGTGCCACCGGTGCAGGTCTCTCCGCTCATCAAGCT

Sequence=2436;DNA;Homo sapiens

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GAGGCCTTTTGAGGCCGCGTAGTCGGTGTTTTTGAACTGACTCTACAGCTTCTGGCAGGC
CGTGCGGCGCCCTGACCCGGCCTCACCATGTTGGTGCTGTTTGAAACGTCTGTGGGTTAC
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TABLE 2

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TTTGAAACTCCAGAGAAAGCAAAAAAAAAAAAAAAAAANANAGTACCTGCCCG
Sequence=2437;DNA;Homo sapiens
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AGATGGCTGTCTATNAACCAGCAAGTTNGCCTTTGNCANACCCCAGATCTGCANACTACC
TTGATNTTGGACTTTNCATCCTGCACAAATCTAAGANANAAATTACTGNTGTTTATCAAC
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AGGCATNGCTACNATNAAGTCTTTCCNTGCTCAGAATCTCC
Sequence=2438;DNA;Homo sapiens
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGGAANTGGATGACTT
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ATGCCAATGCTTCAGTGGCTGGGAAGGTGATCGATGCCAGTGCCCTTCAGCAGCNGCCCA
GNACTGTGTCAATNCAAAGGGCCAAGTGTGCAGNGGAAGAGGCACTTGTGTGTGTGGAAG
GTGTGAGTGCACCGATNCCAGGAGCAT
Sequence=2439;DNA;Homo sapiens
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CTACCTTGATCTTGGACTTTCCATCCTGCACAAATCTAAGAAATAAATTACTGTTGTTTA
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CTTAAGGCATAGCTACAATTAAGTCTTTCCATGCTCAGAATCTCCATCTGCTGGCCAAGC
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AGGTCAGGAGTTTGAGACCAGCTTGGCTAACATGGCAAAACTCTGTCTCTACTAAAAATA
CAAAAAATTAGCCGGGTGTGGCGGNGGGTGCCTGTAATCCCAGC
Sequence=2440;DNA;Homo sapiens
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Sequence=2441;DNA;Homo sapiens
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AGGANAAGCGTTGTGCCGGTTTCCA
Sequence=2442;DNA;Homo sapiens
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TCCATTAATTGTGGCAAATGTGCCACACTAATGCAAAGCGTTAGTAACAGGGAAAACTGG
GAGCAGGGTATATGAGAACTTTTTGAACTGTTTTCACAATTCTCCTGTAAATCTAAAACT
CTTCTGAAAATAGAGTTTATTCTTTAAAAGTGTCTGGAGGATGTGCACAAGGGTGTGGCA
GCAGAGGGGCTACAGGTAAAAAATCATGACATCTGGAATATTTCCTTCAATTTTTGCTCC
ACACGGTGACTATCTTACCCTGCTCCC
Sequence=2443;DNA;Homo sapiens
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CTCCCAAGGGAGGTCCCCCCGATCCGAGTCACAGCACCAAATTTCATGCGCATCTGTGTA
AAGAGACCAACAAGCAGGCTTTGTGTGAGCAGCAAGGCTGTTTATTTCACCTGGGTGCAG
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AAGATAATGTCATCAGTTAAGGCAAGAACAGGCCATTTTCATTT
Sequence=2444;DNA;Homo sapiens
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AATTAAAGTAGTTCTTTGATGAATATGAATGAGTAGGGAAAGGATTCTTTGTAATAGTGA
TACCTCTGTGGTAAGAGAAGGGTGGTATGTGAGTTTTAGTCTACAGATTATGGCAAATTC
AGTGACAACAATCAAATGGTCTAAGATTGACAGTAGCACAGTTTTACTCTGTGAAGGTAA
TGTTCAGGACAAATTTCAAGAAAACTAGAAAACCATTCTTTACAGCTGAAATCTTTCCCT

TABLE 2

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AACCATTGTTATTTCCACTTTTAAGTCCTCAAGAGATGAGAAAAGGGAGGTAAGGCTTCC
TTATACATTTCCTGCACAATGAAACATTTTTCCTCCTCCAGGCAAAAGATTCAAGCAGAA
CTGGCAAATATCTTATCTTGCTCTTCTTAATAATATAATGGTGGTAGGATATAAAGGTCT
ATACAATTAACCTANAT

Sequence=2445;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGNCNGGCCAGGTACACNTTC
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TCACCTNNACACTGANGGCCCTNGGTGNGAAGATGAACCTTNCACCGTCTNTANTGCATT
CTGGAGTGCAAAAATAAAATCCACTNAAGAGTCACAAGGCCCGCTGTGCATAATNGGNTT
CACTTTTACCTTTTTTT

Sequence=2446;DNA;Homo sapiens

CCGCGGTGGCGGCCGGCCGGGCAGGTACATGTAATGCTCCTGAACTGTATGCTTCGCACG
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AAGAATTAGCTGGAAATACCAGCACAGGCAAACCCCTGGAGACAGAAAGCAGGTGAGTGG
NTGCTGGGGCTTGAGCAGGAGGAAGGGCGAGGGACTGCANAATGGCCATGGGCTTTGCCT
TCTAGCATGATGAGAATGTTCTGGAATTAGACAGTGGTAACGCTTGTTCAACACTGCCAG
TGTAGTTAATGTCACTGAATTATACACTTTAAATGGCTAACATGACCAATTTTATGTTAT
ATATATTTTACTACCACAAAAAAACTANCTGGCACCTAAAAACATTCCATTGAACAGGCC
CCTTCAGATCTGTGTCTTTCCTGCATGCAAATTACNCCACAGAGCAAGCACCTATGGCAN
CGTGGATCACAGGCTCTGTTTTANGATAGANAAAGGACACAAGGNGTCCCCC

Sequence=2447;DNA;Homo sapiens

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCTTTTCTTTACTTTT
TTTTTTTTTGAGACGGAGNCTCACTCTGTCGCCAGGCTGGCGCGATCTTGGCTCACTGCA
ACCTCTGCCTCACGGGTTCAAGCGATTTTCCTGCTTCAGCCTCCTGAGTAGCTGGGACTA
CAGGCACACGCCACCATGCCCAGCTCATTTTTGTATTTTTAGTGGAGATGGGGTTTCACC
ATGTTGGCCAGGATGGCCTCCATCTNTTGACCTTGTGATCCGCCCGACTCGGCCTNCCAA
AATGCTGGGATTACAGGCGTGAGCCATCAAGTCTGGCGAGAGAGATTGTTTCTAGATGAG
GGNGGGGGCCGGNTGTCCTTANCCCAAAGCTTGTGCCAGTCTCTATCAGAAATAAATGCC
CCCAAAACCAAAAAAAAAAAAAAATAAGGTACCT

Sequence=2448;DNA;Homo sapiens

GCCGGGCAGGTACTACNTCAGCAATTTCTCCANNGNGCNGNNCGACAGCATATGGCACCA
GCCCATTTTCAATTTGCTGAGCATCGGCCAAAGCCTGTATGCGAAAGCCAAGGAGCTGGA
CAGAGTGAAGGAAATTCAGGAGCAGCTCTTCCATATCAAGAAGCTGTTGAAGACCTGTAG
GTTTGCTAACAGNGCATTAAAGGAGTTCGAGCAGGTGCCGGGACACTTGACTGATGAGCT
CCACCTGTTCTCCCTTGAGGACCTGGTCAGGATCAAGAAAGGGCTGCTGGCACCCTTACT
CAAGGACATTCTGAAAGCTTCCCTTGCACATGTGGCTGGCTGTGAGCTGTGTCAAGGAAA
GGGCTTTATTTGTG

Sequence=2449;DNA;Homo sapiens

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ACAATGCAGCAAGAATGATTATTTTTTACTTAGGCTTTTAAGTAGGCTCTGATGGAACTT
TGTTCCATAGCAGGAATCTCAGATAAGACTTTGTAAAACCCGTAAAACTCANCCGAGCCA
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Sequence=2450;DNA;Homo sapiens

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TNGTNGAGAGAGTANAAAATTTAACACCCATANTNNGCCTAAAAGCAGCCACCAATTAAG
AAAGCGTTCANGCTNAACACCCACTACCTAAAANATCCCAAAAAAAANAAAANAAAGNAC
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GATAAAGACACTTTTTCAAAA

Sequence=2451;DNA;Homo sapiens

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TABLE 2

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GGTAACTCACAGTGGAGGCCCGCCTGCACCCAGGTGAAATAAACAGCCTTGTTGCTCACA
CAAAGCCTGTTTGGTGGTCTCTTCACACAGACGCGCATGAAAGGGAAGACATACAAAAAC
AAGGCCTCTGAGGTAGGTACCT

Sequence=2452;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTTNTTTTTTTTTTTTTTTTGGGTTTCCGGGGTCGTNTTG
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TTGGAGTCNAATTCCTGATCAGAAGTTTGAATGGTTGTTACTGCTGTGTTTTTCATGTCA
ACAATTTCTTTTNTTTGTTNCCTGACAAGGTGTCCTCTTGCAGCTGACTGTATTATTATA
GCGCTTTCTTTCCTTTTCTCCTGTATTTTTTGGTATCTTNTTGAACACAANAATGCTCTG
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Sequence=2453;DNA;Homo sapiens

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TTTTTTGAGACGGAGTCTCACTNTGTCGCCCAGGCTGCAGNGCAGTGGTGCAATCTCGGC
TCACTGCAACCTCCAGTTTGGGCCACAGAGCGAGACAGCGAGACTCGGTCTCAAAAAAAA
AAAGAAAAGAAAAGTACCTGCC

Sequence=2454;DNA;Homo sapiens

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AAATTGAACAATAGGAATGACCCAATTTGAATAACAGAGATAAATGAACAGAGCCTCAGG
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GAGGGGATGGGGCTGAAAAAGCACCTGAAGAAGTAATGGCTGGAAGCTCCCCAAATTTGG
CAAAACACATAAGCCTACAGATTCAAGAAGCTGGGTGAATCCCAAATGAGAGAAATCCCT
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TNGNCAAATNNGGTACCTGCCCG

Sequence=2455;DNA;Homo sapiens

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CACCTCCCAGGTTCAAGCCGTTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTATAGGC
GCCTGCCACCACGCACAGCTAATTTTTTTGTATTTTTAGTAGANACAGGTTTTCACCACG
TTGGCCAGACTGGTCTCAAAACTTNTAACCTCAGGNGATCCACCCGCCTCAAAGNGCTGG
GATTACAGGCGTGAGCCACCGCACCCGGCCCAGACTCCTTAAAATGTGANAAGTAGCACT
GAGGAATGTGATCAGATTATGGCCTTGATTGGCACATGGGGTCGCTTTCCACGGTTGGCC
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ACATCCCGGGATTTCTGNGCTTGGGT

Sequence=2456;DNA;Homo sapiens

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GTGAGGAAGCAGCTCAGAAGAGGAAAGGAAAGGAGCCAGGCATGGCTCTTCCTCAGGGAC
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CTTCACAGAGGGCTTTGTACCTGCCCG

Sequence=2457;DNA;Homo sapiens

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ACCTCTGCCTTCCAGGTTCAAGTGATTCTNGCGCCTTAGCCTCCGGAGTAGCTGGGATTA
CAAGCTAATCCCANCTAGGCGTGCGCCACCACACTCGGCTAATTTTNGTTATTTTTATTA
TAGTANAGACGGGGTTTCACCATGTTGGCCAGGCTTGTCTCAAACTCCAGACCTCAAGTG
ATCCACCCGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGCGAGTATATGCTTTTAAA
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TABLE 2

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Sequence=2458;DNA;Homo sapiens
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AGCACAGGGTTGGGGGTAGGGTTACAGATTAACAGCATCTTAAGGCAGAAGAATTTTTCT
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GATCTCTCTTGCTTTTCCCCACAACCTCAGCCTCTCAGAGTGCTGGGATTACAGGCATGA
GCCACCGCGCCCAGCCTCCCTTTTAAAGCACTTTCTGAAGTCAAGCCTGATTCAGGATTG
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Sequence=2459;DNA;Homo sapiens
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TGTATTCAA
Sequence=2460;DNA;Homo sapiens
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GTGATCAGCCCACCTCGGCCTCACAAAGTGCTGGGATTACAGGCGTGAGCCACCTTGCCC
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ACATATATCACTGAACCTGTTTGNAATAAAAGTTTTTTTT
Sequence=2461;DNA;Homo sapiens
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Sequence=2464;DNA;Homo sapiens

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Sequence=2465;DNA;Homo sapiens

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Sequence=2469;DNA;Homo sapiens

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TABLE 2
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GGG

Sequence=2490;DNA;Homo sapiens

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Sequence=2507;DNA;Homo sapiens

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Sequence=2511;DNA;Homo sapiens

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Sequence=2512;DNA;Homo sapiens

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Sequence=2513;DNA;Homo sapiens

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Sequence=2529;DNA;Homo sapiens

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ANAGGGCAGGGAGAAATCGCTTGGAACCTGGGGAGGCCGGNANGTTGCAGNTGAGCCCAA
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Sequence=2533;DNA;Homo sapiens

CCGGGCAGGTACTTCTTGATTTCATCATACAAGACAAGCACAAAAGCACCACCCATGCCT

TABLE 2

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GGTCTCGAACTCCTGGCCTCAAGTGATGCACCTGCCTCGGCCTNCCGAAGTGCTGGGATT
ATAGGAGTGAGCCACCACGCCCGGCTACAGAGTTGGGTTTTAACAGAAGAGGACCTTGAA
TGCTGAAGCTTNACAGGGCGGCCAAACTAACTCGCTGATTTTTGCAAGACCACAGTGTAA
AGGTCGGATGTCCACCTGAAGAAGGGGTGGGTGCAACTCTCTGGGTGCTGCACACACCAT
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Sequence=2534;DNA;Homo sapiens

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AGCCAGGCAGTGGGGATCTACCTGNGGCCCCGGCCTCCCTAAAGTCATTCACATTGAATG
GGGGGATGAAGGNTCGGGACAGTGGCTCATAAGAGCCCGAGTATTGAGCCCTAANCTGTG
GGGCCTAANAAATGTTCCTTTAATAAAACAATCCTTATTTTTTTAANAAAAAAAAAAAAA
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Sequence=2535;DNA;Homo sapiens

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GATTCAGCCCCCAGATCCCACAGTCAGAACTGAATCTGCGTTGTTGGGGAAGCCAGCANT
GGGCCTTGGGGGAAGGAAAGCCCATGGCTGTGGTTCAAGAAGAGGGGTGGGGCCTGGGCA
AGCCCACTTTTCGGGGGAAAAACTCCTTCCGCCCCAGGGTTTCTTCTTCTCTTAAGGGAG
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Sequence=2536;DNA;Homo sapiens

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Sequence=2537;DNA;Homo sapiens

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GCTGGGTTAAAGTTATGGTTCCAGAAGCTTCCAAATCCTGAAATAGATGTTTTAAAGATG
CAACCTCAAACACCAATGCTGTTGTTAAAGAGCCTATGGGGAATTGCTGCTGCTCTAGAA
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GACCTCGAGGNGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAGGGGTTTAN
ATTTGCCGCCGCCTTGGGCGGTAATTCATGGGTNCATAGGCTGTTTCCTGGTGGTGGAAA
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AGTGGTAAAGCCTGG

Sequence=2538;DNA;Homo sapiens

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Sequence=2539;DNA;Homo sapiens

TABLE 2

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CCTGGAGCAAGTGGCCAGGTGGGATCCCGGCAGGAAGNTTTGNAGACCCCTGGGATCATG
GCAGGTTCACAAATGGAGGGAGGAAACCGGACCCTGCCTGGGCCAGGCTTGTGCCGGNTC
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CTTTTGGTTCTAAGAAGGCTGGCGGAGGGNACCCTTCGGCCCGCTTCTAAGAACTAGNTG
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ACCCTCGANGGGGGGG

Sequence=2540;DNA;Homo sapiens

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TGAGGCCGCGTAGTCGGTGTTTTTGAACTTACTCTACAGCTTCTGGCAGGCCGTGCGGCG
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Sequence=2541;DNA;Homo sapiens

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ATGAACCACACAAAGGAAAGCTAAAACCATGGGGGCAATCTAAAGAAAATAATTATCTAA
ATCAACATGTCAACAGAATTAACTTNTACAAGAAAACTTACAAACAACCCCATCTTCGGG
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Sequence=2542;DNA;Homo sapiens

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Sequence=2543;DNA;Homo sapiens

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Sequence=2544;DNA;Homo sapiens

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TABLE 2

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GCAGCCTCAACCTCTGGGGCTCAAGCAATCCTCCTGCCTCAGCCTCCCAAGTAGCTGGGA
CCACAGGTGTGCACCCCCACTCCTGGCTAATTTTTTTTATTTTTTGTAAAGATGGGGNCTT
GCTATGTTTNCCAAGGTTAGTCTNAAACTCCTGGGGTCAAGCGATCCTCCTGCTTAAACT
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NG

Sequence=2546;DNA;Homo sapiens

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GACCTTGCAGNCCCTGGCCCTTCCGCCACCATGGGAATACCTNGGGCCGTTCTAGAACTA
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AGGGGGGGGCCCG

Sequence=2547;DNA;Homo sapiens

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Sequence=2548;DNA;Homo sapiens

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Sequence=2549;DNA;Homo sapiens

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GTTCGG

Sequence=2550;DNA;Homo sapiens

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TABLE 2

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GAGACAAAANCNGACCTCCGTTTAAAAAAAAAAAAAAAAGGGAAAGGAAAGGAGGAATTT
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Sequence=2551;DNA;Homo sapiens
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Sequence=2556;DNA;Homo sapiens

TABLE 2

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AAAAAAAAAAAAAGTACCTGCCCC
Sequence=2559;DNA;Homo sapiens
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Sequence=2561;DNA;Homo sapiens
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TNATTTTTAAAAAAATTTTTTAGTAGAGACAGGGTTTACCGGGTTAACCAGGATGGNCTC

TABLE 2

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NATCTCTGACCTCGGGATCCCGCCCNTTTGGGCCTCCAAAAGACTGGGGATTACAGGGCG
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Sequence=2562;DNA;Homo sapiens

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GATTACANGGCGGTGAGGCCACCGCACCCGGNCTATTGACATTTTTTAAGGNTTCAGATT
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AA

Sequence=2563;DNA;Homo sapiens

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Sequence=2564;DNA;Homo sapiens

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CCCGCGTACCCTATGGACAGTTGTGTCCCCAAGGAAGGATGAGAATAGCTACTGAAGTCC
TAAAGAGCAAGCCTAACTCAAGCCATTGGCACACAGGCATTAGACAGAAAGCTGGAAGTT
GAAATGGTGGAGTCCAACTTGCCTGGACCAGCTTAATGGTTCTGCTCCTGGTAACGTTTT
TATCCATGGATGACTTGCTTGGGTAAGGACATGAAGACAGTTCCTGTCATACCTTTTAAA
GGTATGGAAGAGTCGGCTTGACTACACTGTGTGGAGCANGTTTTAAAGAAGC

Sequence=2565;DNA;Homo sapiens

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACCTCATCCCCTCAG
TGACTAAGAATTGCAGNATTTAAGAGGTAGCAGGAATGGGCTGAGAGTGGTGTTTGCTTT
CTCCACCAGAAGGGCACACTTTCATCTAATTTGGGGTATCACTGAGCTGAAGACAAAGAG
AAGGGGGAGAAAACCTANCAGACCACCATGTGCTATGGGAAGTGTGCACGATGCATCGGA
CATTCTCTGGTGGGGCTCGCCCTCCTGTGCATNGCGGCTAATATTTTGCTTTACTTTCCC
AATGGGGAAACAAAGTATGCCTCCGAAAACCACCTCAGCCGCTTCGTGTGGTTCTTTTCT
GGCATCGTAGGAGGTGGCCTGCTGATGCTCCTGCCAGCATTTGTCTTCATTGGGCTGGAA
CAGGATGACTGCTGTGGCTGCTGTGGCCATGAAAACTGTGGCAAACGATGTGCGATGCTT
TCTTCTGTATTGGCTGCTCTCATTGGA

Sequence=2566;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCGGGCAGGTACAGATAGCAAAGACTGGGACCACAGTGGAGGGAT
GCCTAATCCAGACAAGGGCAGGAATAGGCAGGGAAGGCTTCCTAGAGGAAGTGATTTCCA
AGCTGAAACTTGACAGATGGAACAGAAGNTAGCCAGAGATGGGAAAACTATTTTTGGTCA
ATGGAAGANCAGGTGGTTGAGATAGAATCTGACACATGANAGCAAAAAAAAAAAGTCCANN
GNTGGGAGAATACNGNGTGAGAATAAGACAATNTTAAACTGGCNATATAAGTAAGNGATC
ATCACAAGGCTTTGTAGGACATAGTAGGGAGTTTAAGACTTTTTATTCTGAGGGCAATGG
GGAATCACAAGAGGGAGTTAGGCACTNTACACAACTTC

Sequence=2567;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGCAGGCCTCCTACACCT
ACCTCTCTCTGGGCTTTTATTTCGACCCGNGATGATGTGGCT

Sequence=2568;DNA;Homo sapiens

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTGGATATCATACGAAAGTGT
AGTTTCAAAGGAGATGGACAAACGATACCTACAGTTTGATATTAAGGCCTTTGGNGAAAA
TAATCCTGCCATTAAATGGTGTCCTACTCCAGGCTGTGACAGAGCAGTAAGACTAACGAA
ACAAGGGTCAAATACATCTGGATCTGATACACTCAGCTTCCCATTGCTGAGAGCTCCTGC
TGTTGATTGTGGAAAAGGACACCTCTTCTGCTGGGAGTGCCTTGGTGAAGCACATGAGCC
TTGTGACTGCCAAACATGGAAGAATTGGCTGCAAAAAATAACCGAAATGAAACCAG

TABLE 2

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Sequence=2569;DNA;Homo sapiens
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CGGAGTCTCGCCCAGGCTGGAGTGCAGGGGCNCAATCTGGTCTCACTGGNNGCTNNGCCT
CCCGGGTTCGTGCCATTCTCCTGCCTCANACTGTCGAGTAGCTGGGACTACAGGCACCCA
CCACCAAGCCCAGCTACTTGGGATCGCATGAGCCTGGGANTTTGAGGCNGCAGTGAGCCA
TGATCACTCCAGCCTGGGCAACAGANNGAGACTCTNTCACAAAAATTAACTTTACTTAAT
TACTTTTATTATTGNCATAATCGCTCCATTTTATTGTTGTTTGTTGTTGTTGNAAACCAA
ATTGTAAAACCATTTTATNTTTTGTTGCAAACCAAAAAGTTTCTGAGACAGGTCTTAATT
TATTTAGAAGTTTATTT
Sequence=2570;DNA;Homo sapiens
TGGAGCTCNCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGTGATAAG
GCTAATATTTTTTAAAAGGAGGCACAGTGAATTTAAGACATTGACATTTATAGCCGTAGC
TCGACGCTTACTCTTGGAGGCCCAATTATCATCCCTGTCCATCTTGTAAGTGTCATGTCT
TCGTCATCTTCTAGACCCCAGCTAACTGTGCCATCTCCTACTCCTTTCTGGCCTTCTTCG
AGTTCTTCCAACAGTCGGAAATTGCGAGGGACTTTTACTCCCGAGCCCGTGGTGGCTGCC
ATCTTGCGTCGCTGTTGCTTGAAGGCCGGCCCCTTCTCCCCGCGTCCTGCCCGGGCGGCC
GCTCTAGAACTA
Sequence=2571;DNA;Homo sapiens
CTCCCCCGCGGTGGCGGCCGAGGTACTCTCCGCCTAAGTCCATAGAGAGGCTAACACCCT
TCTAGTTTATTAGTCTTTGNTAAACCTATGAAATTCTGAATNTAATGGCTANNTTATATG
CANNGTGGAGGNCACNCAAAAATGTTTCTCTCAACAGCTGTGATAAGTATAGGCTTATTT
TGATGTCTAAAGATCTGNTACCTGTATCTGNTTTCATCTTTCAACACAAATTCATGGGAA
NNTTAACTATGNNCCTGTGNTCNGGACAAGTGTGCATGAGAACATCATNCACTAAGTTTA
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TAGTGGA
Sequence=2572;DNA;Homo sapiens
AGGTACGCGGGGGCTGACTCTCTTCTCAGATTCAGCCCAGTTGCACCCAAGTAAAATAAA
CAGTCTTGTTGCTCACACAAAGCCTGTTGGTGGACTCTCTTCATATGGACTCATGTGACA
TTTGGNGCCGAAGACCTGAGACAGGAGGACTCCTTTGGGAGACCGGCCCCTGTCCTCGCC
CTNTTTCATGAGATCCACCCATGACCTTGGGGTTCCTCANCCCAGCNCGAANGAACTTCT
TCACCAANTTTTAAATCGGGGACCGCAAAGCCAACAAGAATGAAGAAGTGNCCAGGTATG
GTGGCTCATGCCTGTAATCCCAAGCACTTAGGGAGGCCGAGGAGGAAGAATTGCTTGAGG
CCNAGGAATCCCANACCAGCCTTGGACAACATGGCAAAATNCCANTNTTTTCNAATNANA
TTAAAGNAAANAAATTAAAGTTACCTGCCTNGGCGGGNCGTTCTAGNAACTAGTTGGANC
CCCCCGG
Sequence=2573;DNA;Homo sapiens
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GGTCCTAAGGGCGCAGGGTAGGGCATNCCACTGGGAGTTCAAAGGGGAAACNAAGATGGT
TCCCACTGCTGCTCAGACAGTGTCGCTAAAATTCCCTCACTCATTTTCAAGTCTTGTTTT
ACATAATGGCTTTTAAAGCAACTTTTGTTAATGCTNCTGATNCTTTAATNCAAACTATTA
ATGTNCCATTTTGGTGACATCTGGGTTTTCATACANAAAAAAAAAAAGTCAAAAAGGGGA
AACAAAAANATATTTACACATTTTATATATAAACTTAAAAACCTTGTACCTTN
Sequence=2574;DNA;Homo sapiens
CGAGGTACTATGGCAGTTTTGCCTCAGGTGCTGAACATTTCTCAGCCCTGGCTAAAAGGG
AGCAGCACAGGGAGAGAAACAGGATAGGAAAGCAGAATGGCGAGCAGCCTATGGCCCAGG
GCCTGTAATCCCTTCCCAAGACTAGCTGCTCAGGGTGGTGCAGGGACAGGACCAGACCCT
GCGCCTATTTCCTGCCTTCTTTCCCTATAGGGAACTCTGTAGGCTGAGCCACTGTCCTGC
TCTTATGACATTATATCTTGTGCCTTTCTCCTCAGCAGTGAGCAGTGAGCTACTCCTGGC
CCAGGCCCTAGGGGAAATGGATCAGTCTTTGAGGTTTCTATTTGGGGAGGGGAGTACCTG
CCCG
Sequence=2575;DNA;Homo sapiens
CCGCNTGGCGGCCGAGGTACTTGTTTTTTTTTTTTTTTTGAGACAAGGTCTCGCTCTGTCA
CCCAGGCTGGACTGCAGTGACATGATATCGGTCACTGCAACCTCTGCCTCCTGGGTTCAA
GGGTGATTCTCGTGCCTCAGCCTCTCAGGTAACTGGGATTACAGGCATGCACCACCATGC
CTCGTATTTTTTTTGCGTGTGTTTTTAGTAGAGACGTGTTTCACTATGTTGTCCCGGGCT

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GATCTCCAACTCCTGTAAGTCAAGTGATCTGCCCGCCTCAGCCTCCCAAAGTGCTGGGAT
TATAGACATGAGCCACCACACCTGATGTCTGATGCTTATTTATTATGTGACCTTAGCGAA
GTGTGGTAGTCATTAAGTGCTGGTCTATCTCTATACCTTCCCCAGGCAAGGTAGGATTGC
ACTTNCCGCTCCACTTGTGATTAGGTGGAGCCATGTGACTACTTT

Sequence=2576;DNA;Homo sapiens

TGGGCTCCCCGCGGTGGCGGCCGAGGTACTAGAAACTTTCCAAGGAGTCTTGGGTGTGTA
GCCAAGAGGAGCCATGAGCTATGGACTCCTCAAGCACGGGAAGAGGAGGTGTGTGCTGAG
AACAGAGAGGCCCTGCCCTCTGTCCACTAGCGAGAATCCCTAGCTGCCCCAGCCCAGTCT
TTCTCCCCGGCATTCACAAACTTTGCAAGCGTTGGTCCAGGGCCCTTCTCCAGATCTGTT
NCAACTTTGNAGAGTGAAGGGCTTGAGCATACGGGGGAAGAGAGTCTGCATNANGTTAGG
GGGAAAACTTTTAAAAGATACCCTCATTGTGTCAAAAGAAGTGTGCCAATCTATTTTTGT
ATCAGCATTGGGAAGNGCACTTTCCCCTGGGGCCGTGTGGGTGNGTGAATGTGCAAGTGT
CTGAGAGATACTGCATCAAGCCCTAGACCCTCAAGAGCCAGTCCCGCCCTTTTACAGAGC
ANTCCCTTATCCTGGGGCCATGGGTCAGGCTGACCTTCAA

Sequence=2577;DNA;Homo sapiens

CCCCGCGGTGGCGGCCGANGTACGCGGGGGACTTCGGGCTTGTTCGCTGGTGGCGTNNGA
GCCNAGCCCGGACTGGTCAGGATNGATCACGGACGTGCAACTCGCCATNTGNNGCCAACA
TGCTGGGCGTGTCGCTCTTCTTGNTTGTNGATCTCTATCACTTACGTGGNCNGTCAAACA
ATTCCAAGAATGCANGAATGAAAGTTGGCGCTTTCTTCCGCCCCANGGTCCCAGGACATT
AGTCTGNGGCANGATNGAGGGGTNTNGAAGGGGCCTTTCACACTTAACTTTATTCCTTTT
ACCCTTCACAACATACAAAAGGCAACTTACACCTGGGATTTTTNCAAAACAACCTTTTAT
TTCCCTCAGANGNCTTTCCNTTAATCCCTATGGAACAAAGAANGCTNGNCCACTTGAANT
AGGGGCCCNAGTATAGGGGGCTTTGCTTTTCTACTTCCNTC

Sequence=2578;DNA;Homo sapiens

CAATTGGACTCCCCGCGGTGGCGGCCGAGGTACCTTATGTAGCCCAAGAAATTCAAGAGG
AAATTGATGGGGCTCCTTCAGGAGCAGCGTGCAGATATGGACCAGTTCACTGCCTCAATC
TCAGAGACCCCTGTGGACAGTCCGGGTGAGCTCTGAGGAGAGTGAGGAGATCCCACCGTT
CCACCCNTTCCACCCCTTCCNAGCCCTACCTGAGAACGAAGACACTCAACCCGGAGTTTG
TACCTGCCCGGGCTGGCNCGCTTCTAGAAACTAGTTGGATCCCCCGGGCTGCAGGGAATT
CGATATCAAGGCTTATCCGATACCGTCCGACCTCGAG

Sequence=2579;DNA;Homo sapiens

AATTGGAGCTCCCCGCGGTGGCGGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGGA
AACAGGGTCTTGCTATGTTGCCCAGACTGATCTCAAACTCCTGGCCTCAAGCAATCCTCC
TGGCTTAGCCTCTCAAAGTGCTAGGATTACAGGTATAAGCCACTGCACTAAGTCCAGTGA
ATCATTTTCCAGACAACATTTACTGAATATCCGACACTGCCTTCCACAGACGGGGGAGGT
TTCCCAAAGAGGCCGTGCTTTTTGAGAAGCTGGCAAGATAACCCTGGGGTGGAGGGAAGG
TGGCCCGCAGCTGAGACCACCACCTTACTGTCCCCAAATCCTCACCAGAGGTTGCTGACA
CTTTCCTNTTCCCCATCCTCATCTACTTTTCAAATTAGAACAGTAGAAAATGGGATGATT
AGGCTCCTTNNCATTTTTAAAAAACCCCGTTGTTTCAAATTTTTNTAGACNCCAAGTCTN
AAANGGGNGTAATCNCCTTNGTAAAATTTAAATT

Sequence=2580;DNA;Homo sapiens

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TTTNTGNCCCNCTTGCTTCACTCGNGTATGNCATGCTCTATCTCTTCTCCTATGCAGACT
TTANGNCNGTNGGCCATTAANTCTTGAAGAAATTTCCTTCNNTCTTGCTGTCACNTACCA
NNTTANTTGGTCTGCGTGCAACAAGAAGGNGTATTATANNAAAAAAGTTCTTGCTTAACC
ATTCANGATTAAATAAANAAAAAAATTCCTTTGTTTNAACATTTTGNTATTTTTTGCACA
TACACCAAACTTTTTTAATTGCCTTTTNCANAGNNCCTTTCCCTCCAAAAAATAAAAAAC
AAAAAATCTTCAATCNACATAAAATCAAACACCTGTATTGATCCATGTTCATGCTAAGCT
GGGNAA

Sequence=2581;DNA;Homo sapiens

ACTCCCCGCGGTGGCGGCGAGGTACAAGCGCTTTGAATATCATGGGCACCATGACTGTGA
CCCTACAGGTAGGATTGGATCACTCCATGAGAGTAGCCGGCAGGTTTCTACAATGGCCTG
GGAATGGACTGATTATTTTTATACATTTTCTGGCCTGAGAGAAAGCCAAGGTCCCCTGCT
GTTCACAGCAACCCTGCCTGGGAGCTTGGAATCTTGGTAAATCTGCCCCGTTNGGATCTA

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TTGGAGGTAGGCTCACCCTTTTTNGTCTTTTGTGGGAAAATTAAAGAGAAATAATTNTCA
GACNTATCATCACCTCCAGTGGAACTACAGAANACCTGGACCCANCTGCACTATTTTAAT
GTAAAAATAACAATATGGCCAGGGTGCAGTGGCTCACGCCTGTAATNCNATCACTTTGAG
CAGCCAAGGCGGGCGGATCACGAGGTCAGGAGATTAAGACCATCCTGGCCAATATGGGTG
AAACCCTGTNTTTACTAAAATACAAAAAAATTAACTGGGCATNGTNTTGCGTGCCTGTNG
TCCCANCTACTTGGGANGGCTGNGACCAGGGGAATTGCTTTGAACCCCGNANGGCNTAGA
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TNTTAAAAAA

Sequence=2582;DNA;Homo sapiens
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CATGACAAGCANAATCACTGNGTTTTTCTCTCTACTCTGTGGCATANGACTCTATGCCAT
AGAGNGACGTGTGAAAGGCTTGAGGCT

Sequence=2583;DNA;Homo sapiens
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GNCCTGGGNANTTTTNTNAAGGGGCTTTTTAACNNGGGANGANANCCTGTGCCGGTTCAN
CCCANGCCGGTNGTNAATTTTCANCCTTTTTTCANCTNGCTTTGGGTTTTTAAGGCTTTN
GTTTTCNANCNTTTTTCTTTNAAANCCTTCTTCACAAGTNGANGCCATTCNTCCNGGTTC
CTTCNAAATNTGGGCCTGGGTCCCTTNTCCCCGGNTTTAAAAAANAACTTNCCAAAAACA
AAACANTTTTTTCCCCTNG

Sequence=2584;DNA;Homo sapiens
CCGCGGTGGCGGCCGCCCGGGCGGGTACGCGGGGGTCTCCAGAGTGAGTGTTCCGGAGAG
CACCGTGTTAGGGAAGGAGGAGGCTGCGGGCTAACCTGCCGGGAGGGAGGATGCTACTGC
CTGTTTCCTATTAGTGACAACCCACCTCCTAATCACGTCCTGCTTCAAACAAGGTAACAT
CACAGGACAGCCTCCGAAACAATAACTGTTTGAATATCCTTAATCTTCGGCAACTTCAAT
AACTCCCCAAAATATATGTAATCAGAGAATTAACTTTTACAACTTTTGGTTATTGTTTGC
TTGAACCATAAAGCAGAGCTCTTTCTGGGATAAAAAAAAAAAAAAAAAAAAAAAAAGT
ACCT

Sequence=2585;DNA;Homo sapiens
AGGTACTTCACAATACAACTCTTGCAGAAAGTATGAAGACACTCTGTGATGGTGGTGGCA
TCCACGAAGTAGCCGGCGCATAGGCAGCAAACAATGTGTTCATTCAAGTCTTTGATCTTC
ACTCGAACCTCCTCCTGACCCTCCTTTCCCAGGGGAGACTACACAACGTCGGCGACACAA
CGCGCAGGCCCCCGCGTACCTGCCCG

Sequence=2586;DNA;Homo sapiens
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAACAAGCAATAATAAA
AGTCCTCTGCCGAAGACAGAATAGTGTAAAACCTTTCCTTCCCCTGCCCTTACAGATTTC
TAGAGAAGATAATTTGGGAATAAAAGGTATAAAAGGTTTTTGAGAAAAGAGAGATCAAAG
GACATTCAGAGTTCGGGAGGATATCTGGGAAGCAGACTTAGCTTAGATCCTAAAGGGTGT
AGAAGATCTGCATTGCTGGGGAGGAGTGTGGGAGTGGTAAACCAGTCAAAGAATTCACAG
ATGTGCTGGGAGGAGGAGAAGGGGAGCAGAAGCAGGAAAACAGTCTGGCTGAAACACTGG
TTGTATTTCAAAGAGCAGTAGCAAATCAGGGTGGATAAATGTGTGGGCCTAAGCAGCTGG
TGAGCATTAAATGTGTAAGAATCAAATTGTATCCTTAGCAAACCTCTGAAGATTTCTGAG
TAAGATTTTTATGAGTGTTGGTAAATTTATATAGGATGCATATGGGTAGTACCTGCCCGG
GCGGCCCGCTCTAGATCTAGTGGATCCCCC

Sequence=2587;DNA;Homo sapiens
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GTGGTTTAAACGGCACGTTTTTGCTTATAAAAAAAGTGCAAAAAAGATGTGGTTTACAAG
TTAAAGCTACAGAATCCCTTTTTTGCTGTAATTGCACCAGTTTTAAAGCCTCTGGACAGAG
CAGTATTTCGTTTAAAACTTTGTTTTTCTTAAAAGCTTACAGTGTTTGGCTAATTCTCCT
CCCCTTTTTACAAGACGGGGGCCGGAGGGTGGACACTGGTGGCAGGTTAAGGGATACTGT
CACTTTAAGAAGCCTGCAGATTGAAGTGTAAACATGGAGAAATTAGGGGCTGATTTTTTA
AACTGTGTGAGATATTAACCAGCCGCCCTGTTATAAAATCAGGAAATNCAAACAGCGATT
TACACCGATTAACACCCCCTTTATATATTTTTTACAAAAATCACTGAGAAAATAATNAAC
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NTTAAAAATTTAA

TABLE 2
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Sequence=2588;DNA;Homo sapiens
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CACTCTACAAAACCCTGAGGGCCTAGAAATCTGTAAATGCATCGCCAAGCACTGGGGCTG
ATTTGCAGTAATTCTCTAAGCAAGGCAAACATGATCTAGCTTTGAAGGCAGCATGAAGGC
AGCGGGTTGGTGAGAATAATCTCTCCTTAAGAGAAGAAGAAACCTGGGGCGGAAGGAGTT
TTCCCCGAAGTGGCTTCCCGCGTACAGAACACAGAACTTATTTCTGTCAGTTATTTAATA
CATTGAAAATTTAGTGAAATGTTCAAAGAGAATAGATGTTTCCCAAAACAACAACTTTAT
GTTAAAAATAGTCATTAAAAGATCTGTTGTAATTAAAA
Sequence=2589;DNA;Homo sapiens
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CAACTTATTGCTATAGAAGCAAAGAGGACTAAAGGGCAAAATTCTAGAGAGTGGTAAATC
TCAGAAAGCACAAGCATAAAATGCAGCTCTGGGGGCCCTTTCCACTTCTGGCTATAGGGA
AGAACCTGAATACTGAACTTGATTCAGGCAGAGGACCATAACCTGGGGGTCAGGGGAAGG
CATGGGGGGGACCAGAAACCAGAAGAACGATCAAGACTGCAATGAAAAAAATGGATACAT
TAGGAGCTTCAAACACATATAATTTCTCAAGAAATTTCCAGATTCTCATGCTGCATAGGG
CAGGAGCCTGAAAAGCTAATTTGAGAAGATAATAAGTTGGATTTTTGNTTTGTTTTGCAT
TTTGCAAGTACCTGCCCGTGCCGGC
Sequence=2590;DNA;Homo sapiens
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGGAGGTACCACTGAATCCAAGG
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GTGCTGAACAAGAGCAACGAGGGGAAAGAATTACTCGTCCCACTGACGAGTTCTATGTAT
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Sequence=2591;DNA;Homo sapiens
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CCAAGGAACCTCGGCGAGTGACGGATAAACACCAGTCGGCCCGCGACTAAGAGCTGCGCC
CCCGCGTACGCGGGTCACCAGGGTCAGTTTCTTTAATGATGGTTTCCAACTGGCCTAATA
CATTAAGTAAGACTGGCTGATAACATGACCAGACAGACATAAAGACCCTGTTGGGAATGA
CATTGAACTCTCAAAGTCAAGATTTCTTACACAAATCTATCAGCTGGAGAAAATGAAGGC
AGTGTGGTATATGTGTGCAAATAAGGACATTATGAAGCTTAAATATGGAATGTCTCTTGG
ACCCCCGATGTCATCTGNATTCTCTTTTTCTTCTTGTACCCT
Sequence=2592;DNA;Homo sapiens
CGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACCATCTTGGCTCACTGCAA
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TGGGACTACAGAAGTGCATCACCATGCCCAGCTAGCTAACTTGAATTTTTAGTAGAGACA
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TTCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCACCCGGCCCATTTTATATATTATT
TTTGCATAGCCTTCATTGTCTTAGCAAAGTCAGAAGAAGACCANTAACATAATGTNATTT
AATTAACAACAACGNCAACAACAACAACAAAACAACCCNGGATGGGGGCAGTGGCTCAAG
CTANTAATGGCCGNCCTTATGAAAGNCCAAGGGGNGNGGATTGGTTGATTCCATTTTAAA
ACCAAACTGAANCCCTNTTTTTTTANAAAAAATAAACCGTTAAAAAAATCCTTGGTTTTTG
TTTAAANGNGCCGGTCCCCCCCCCAAGGAGAAAATTTTTNGGGGGGGGGGNGTTAAAAAA
AA
Sequence=2593;DNA;Homo sapiens
GGGCGAATCGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTT
TTTTTTCTCCANAGGCTAGTTTTTCTTCAGTCCTTAANAACTCTGCTCCTTATATGGGCT
TCGGTGGCAGTCATGGGGCAGCACCGCAGGTCTACAGTGGGGTGGAGGTGTTCGGTCCTT
GCGGGGCTTCATGACCTTGATTTNTGGCGGTCGGGGGGCANCACCCNCAGGTCTACAGTG
GGGGGAAGGNGTTCGATCCTTGTGGGCTTAATGACCTTTGATTCCTGACTACCGGGCTGT
GAATNGGCACAACTTCACACAAGTATTGTGNTTTCNCATCNACCCTGGGAAAGAACCCTG
CCCCGGGGGGGCGGGGTTT
Sequence=2594;DNA;Homo sapiens
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTNTTTTTTT

TABLE 2

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TTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTNAAAAATTTTTTTTTTTTTTNAAAAAAAAAANCCNCCNCCC
CCCNAANNNCCCCCNAAANAAAAAAAAAANNNNTTNAAAAAAATTTCNCGGGNNNTTCCC
CCCNNAANNTTTNTNTNGGCNAAAAAAANNNNNNNTTTTTTTTNGGGGCCCNNCCNTAAA
AAAAAAANTTTAAAATTTTTTGGGGGGGNCCNGGGNANCCCCAATTTTNANNTTNGGGGG
GTTNAAAAAAANAAANGGGGNAANNAAAAAAANGGNCCNNNNAATTNGNNTTNTNAAAAT
TNCNCCCNNNAAAANTTTTTCTNAANCCCCAAAANGGGANGGGNCNNTNGGTTTTTTNAN
GGTAANGGGGGGCCAGGGGGGGNTTTTCCCAANTTTTNCCCGGCCCAAAAAAGGAAAAAT
TTTTTTTTTGTTGGGGGGAGGGAGTTTTNAAAAA

Sequence=2595;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGAACAGGGATAAG
TTCTTGGATAAGGTGCCAACATACCTATAAAAGCTGATTTTTGAGTAAATTATTGATTCT
AACATATGTAATGGATTTGGTGTGATAATTTTCTGATCTTTAACTATAAGTGACTTTTTA
TTCTCCACCAGAAAAGATAAATGACTGAGAATGTAAGTCTGCGCTCTGATTAACACAATG
GAGAAACGGAAAAACTATCTCTGTTAAAAACTGATTCCTGTCATTCTTCTGATATCAAAT
AAGAGGAAGGAAAATAAACTTTTTGTGTGTAGATAGAAAAACATACCTGAGGCCAGGTGC
AGTGGATCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGCAGATCAGCTGAGG
TCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAATCACGTCTCTACTAAAAATACAA
AAATTATCTGGGTGTAGTGGTGCGTGCCTGTAATCCCAGNTACTCGGGAGGCTGAGGCAG
GAGAATCACTTTAATTC

Sequence=2596;DNA;Homo sapiens

TCGGAGCTCNCCGCGGTGGCGGCCGGGCAGGTACTCTGGCTGCAGACTGACCTTGCTCAG
GTCCGAGAAGGATGGGGCAGCCACTGGAGTGGATGCCATCTGCACCCACCGTCTTGACCC
CAAAAGCCCTGGAGTGGACAGGGAGCAGCTATACTGGGAGCTGAGCCAGCTGACCAATGG
CATCAAAGAGCTGGGCCCCTACACCCTGGACAGGAACAGTCTCTATGTCAATGGTTTCAC
CCATCAGACCTCTGCGCCCAACACCAGCACTCCTGGGACCTCACAGTGGACCTTGGGACC
TCAGGGACTCCATCCTTCCTTCCCAAGCCCTACATTTGNTTGGCCCTTTTCTGGTGCCAT
ACACCCTTA

Sequence=2597;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGGGAGGGACATACAAT
ATTTAATAGGATATTTCTACAGAACAATAACTTATATTATGTCCTTGTAAAAATCTGTAC
CTCTTTAAAACATTTAACTGAAACATCCATTTTTTTTTAGCTTTGCTAATCAAAATTGTT
TTAAGAATTAAAACTAGGTTGTAACTAATGTCAGTACCTGCCCGGGCGGCCGCCCGGGCA
GGTACATAGGCATCCTATTCACTGCACCCTGTCACACCCGGCACCCCCCGCCCCGCACAT
TATTTGAAAGACTGGGAATTTAATGGTTAGGGACAGTAAATCTACTTCTTTTTCCA

Sequence=2598;DNA;Homo sapiens

AGTTCGGTGTAGGTCGTTTCGCTCCAAGCTGGGCTTGTGGTGCACNGAACCCCCCGTTTT
CAGCCCGACCCGGNTGCGCCTTATTCCGGTAACTATTCGTTCTTTGAGTCCCAACCC

Sequence=2599;DNA;Homo sapiens

AGGTACTGCAACTGCCAGAACTTGGTATTGTAGCTGCTGCCCGCTGACTAGCAGCTGGAC
TGATTTTGAATAAAAATGAAAGCATTAAAGGGTTTCCCTACAAAACATTTTTCTTTAAAA
TACTTTTGAAAATGGCTATAANCAGTTGACTTTCACCCTTGGAGAGCATCACACTGTGTG
AGGTTCAGTGATTGTTGACCCTNCCCAGCCCCTNCTGCTTCTTTAAGTTATCTGTGTGCG
TGCNCTTCCTCTCAATCTTNTTTTGCACCGCTCATTTNTTTTTCTCTGACCCATGAAGAA
AAGGAAAAACTTTACTGATTGATAAANTTTTTAAAANAA

Sequence=2600;DNA;Homo sapiens

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAATTTTTTTTTTTT
TTTTTTGGTAGAAGTGGTGTCTCACTATATTGCCTTGGCTGGTATTGAATTCTTGGGCTC
AAGCAATCCTCCCCTCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCTCAC
CCAGCCCACTTATTCATCTTTTTGCCTGCAAGCTACACCACCAAAGCCCCAGGTCAAACA
TCTTTCTCCACAGACTGTGAGAAAAGAGCCTTTCTTCCTCCTAATTTGTAATGGCTTTCA
GCTCTATNTGTCTAGCTTCAATCCTGACATCTGCAGCTTACA

Sequence=2601;DNA;Homo sapiens

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATGAGGCTTGGCTCTGTGTGAT
GCACTCTAACCAGCCCACACTTCAGCAGCGGCATCATTTGGATTCAGGGAGAGTTTCTGC

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AGCATGAAGGAGTAGGAAGAACACAGGGTGAGTTCACAGGAATCCCTACTTTTCCATGTG
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Sequence=2615;DNA;Homo sapiens

TABLE 2

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Sequence=2617;DNA;Homo sapiens

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Sequence=2622;DNA;Homo sapiens
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TABLE 2
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AAGGTTTGGATATTAATTTCAAGGGGAGTTGAAATANTGNNAGATGGAGAANAGTGAATG
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Sequence=2642;DNA;Homo sapiens
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GGGCCAGGGCTCCTATTTTTTTGCTGAGGAGATGGAAGATCAGGGCTTGTATTCAATAAG
AATGGGAGGGGCCAGGGGATGCCTGGCAAAAGCCTTGCACTGTGAGGTGCAGGTAGAGGC
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CTGCCCG

Sequence=2643;DNA;Homo sapiens
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TAATTTGGNTAAAAGCTGATTATGTCCTACAATGNCAAAGTCAGCTAACTGNCGTCTACT
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CCCGCTTCTAGAACTAGTGGGATCCCCCGGGCTGCAGNNNNNNNNNNNNNNNNNNNNNNN
NNNNNCGTCGACCTCGAGGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAGTGAG
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GTAAAAGCCTGGG
Sequence=2645;DNA;Homo sapiens
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TTTTGGACAGTGGTCTGAGGTTGGGACAGTGGCAGGAGATACCATTCACCCAGGATCTCC
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TNTCCCCCCCCCCCCCCCC
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TTAATTTTTTTTTCCC
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TTAANCCAATTAAAAATTA
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GAAGTTAAAANGTCCCCCCATGGTAAGCGGTCCCAAGAGGGTTNTTGTANTNTAANGGGA
AGNGGNGATNTGNGGGNAAAAAAAGGGATTGNNAAGANCCCAAATTTACCGNNGGANATC
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TGCCTTACTTTCCCNTTCNCCNNAATTGGTTTTTAAAAAAATTANGNACNCAACCCCCCT
TTTTTTTAANGGGNAAAAAAAAAAAAAATTTTTTNCAAACCNAAAANGGGTTTTCCCCCC
CCCCAAANTTNCCCAAACCAAAAAAAAAAAAAAAAAAAATG
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TGGCGATTTCAGTTAA
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ATACAGAGANCAAAGGAAGGAGGAAGTNACTTGTGGAATATTGAGAAAGGTAAAAACACC
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ATTATGGCTAGCA

Sequence=2656;DNA;Homo sapiens

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CAAATAATCTGCATACTTTTAATTGGGAATAAGATGGAAAATATGAATGCTAAATCAAAT
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CATGAAATTGCCTCACC

Sequence=2657;DNA;Homo sapiens

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NCCCCCNNAAAAAAAANGNNCCCCCCCCNNAANNNAAAAAANNANTTTTCAAAAANNAAAA
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CTGGGAGCCCTGCGTGGAGGTATGTGGCTGGAGTCAGCTCCTCTGAACTTTCCCTCACTT
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Sequence=2659;DNA;Homo sapiens

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Sequence=2660;DNA;Homo sapiens

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Sequence=2662;DNA;Homo sapiens

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Sequence=2664;DNA;Homo sapiens
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TTCTTGGCAAT

Sequence=2665;DNA;Homo sapiens
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AAAAAAANATNTTTNTTTTNTTTNTNNNCCCNTTNNNNANNNTANAAAAAAAAAAAAAGN
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Sequence=2669;DNA;Homo sapiens
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Sequence=2676;DNA;Homo sapiens

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Sequence=2677;DNA;Homo sapiens

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CCTCCCAAAATATTGGAATTATTGGCATGAGTCACCATGCCAGATCAAGAAAATATTTAT
GTATAATTTTATCATACCTCATTGGTCCTAATGTTTTTTTGCTTGTTTAGGTCCCTTCTA
GAGATAGGAGAAGAGAGAGATCCCTTTCTCGGGGAGAGAAATNCAAGCCGTCCCGATCCT
CTTAGGGCTNGGAGGTAAAATCNTTTGATAACTTTGTATTNAAAACTTTGCATCCATAGT
ATGCTAAGGCNTTNTTTTANCCCAAAAAATTTTNCCTTAAAAGTTTTTTNGAATTNGCNC
AAAAAGGGCCCCNAANACCCAAGNNAAAGGGNNGGNNCTTTTTTTTT

Sequence=2678;DNA;Homo sapiens

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTCCCCNGGNNNNAAAAATTTTAANNGNNNGGAAAAAAAAAAANCNGGGGAAAANG
NNCCNTTNNTNNNAANCCNTNAANNAAAAAAANNCCNNNAAAANNAAAAAAAAACCCCAA
AANNNNNNTNNNAAAAAAANCNTNGGNNNAAAAAAAAAGGGGGGNGNNANTTTNNNNCCC
CAAAAAAANGGTNNGGNNGGGAAAAAATTNNTTNNCAANCCANAANTTNANTNCAAAAAN
CCNTNNTTCCCNTGNCCNTNNAAAAAAANGGGNACCCCCNGGGGGGANANAATANNAAAA
AAATTTANTTTAACCCCCCCCCCAA

Sequence=2679;DNA;Homo sapiens

GGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTGAGACGGA
GTCTTGCTCTGTCGCCCAGGCTGGAGTGCAGTGGTGCGATCTCGGCCCACTGCAAGCTTC
GCCTCCTGGGTTCACACCATTCTCCTGCCTCAGCCTACTGAGTAGCTGAGACTACAGGCA
CCCGCCACCACGCCCGGCTAATTTTTTGTATTTTTAGNAGAGAGGGCGTTTCACTGTGTT
AGCCAGGATCGTCTTGATCTCCTGACCTCGNGATCTGCTCGCCTCGGCCTCCCAAAGTGC
TGGGCTTACAGGCGTGAGCCACCACACCCGGCCCAGTCTTGTGTCTTAAATACCATTTCC
ACATTGACACCTCCAGAATATTTATCTCTAAACCTGACCTCCAGAAGGTGCAAGCANATT
GTGTAAACCATGTCTCCACTACACGCCTAAAGGCA

Sequence=2680;DNA;Homo sapiens

CCGGGAGGTGTCCGAACAGGCAGGTTGGTGGGTTAAAGGTCTTAATCTTGACTCGAGATC
TCTCCCCGGAGTTCACAGAGTAGGCGACGAAGCCGAAGCAGCTGGAGCGCGACCCGGAGG
AGTCTGACTTCTCGTTGTCTTCATAATTTTCATTCGTTGCTTTCTTCATGGACTTGCGGC
TGGGGGAGGATCCCCGCTGGTCGCCGAGCANGCGGGCGGGTAAAGGTAGGCCGCGAGAGC
CAGGTTATNGAGAGGAGAGGAGGC

Sequence=2681;DNA;Homo sapiens

AGGTACCTGTGACTAACAAGGGGTCTGGGAGGATCTGCTGCTCCCATGCCCTCCTTTGTG
TGTTTTAAATCTGTTTGAGCCTTCTGGGCTCCTGCGAATTAGGGAGTGGCAGCTCCTCAG
TCTAACTCCTATTGNGACCAGGTTGCCTAATTGGCCCTTTGGTTTGGGCACCCACTGTCC
TTCTGCGTGGTTGGATAGATGCTGCTCCCAATGTCCCTGATCTCTTACAGACCCCTCTGA
TTCTTCACTCTTGGCTTTGAGAGCCCCTGATGCCCTGCAGTCTTGACTGAGCTTCTAATG
GTTGATCAGACCCTTGAATGTTGAGCTCTTTCCATACTAGACTTGAATATTCTCCTG

Sequence=2682;DNA;Homo sapiens

GGCGGCCGCCCGGGCANGGTACANGACATTTTCAAAGTTGCCAGTGTTACTTTAATTGGA
CTGCCTTCGTAATTCATTGCCTCTGCTTCAACAATGTGCAACTCATCCTTTGCACCAGCC
CCTAAACTGACCGTTCTTAAAGATAGCTGGTGCTCATTTTCATCATTATCCACCTTAAAG

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NGATAATCTTTGTCGGCCTTTAGTTCACAACCGAAAAGATAGTTCTGGGGCCTNAGGGGG
CTCATGTCCATGTCCATCGAATCTTCCATNGGGNGGCGGCACNCNNTTTTTNTAGNAAAG
AAGGCGGNCGGAANATAAAAAAAACTNTNCTCCAAAAAAACACCCGGNGCANGGAGGGNA
NTCANACCAGGGGCCCCCGTTTNCCTNGGATCNTTTNATAAAAAAATNGGGGGNCCCCCN
CNGNGNNNGGNNGNAAATTCTAATNNTAAANTTTTTANCCCCCCCCCCCCCCCCTNGGGG
GGG

Sequence=2683;DNA;Homo sapiens
CCGGGCAGGACTTGGGAAGCTGAGGCATAAGAATCACTTGAACCCGGGAGGTGGAGGTTG
CAGAGTGAGCCAAGATCGCAGCACTGCACTCTAGTCTGGGTGACAGAGCAAGACTCTGTC
TCAAAAAAAAAAAGACTAGAGAATGTCAGGGAACACATGTGTATATTTAAACAACTTCAC
TTTGCATTTAAAAACTCGAAGGACAGCGAAGGTGAAATCAATTCACGGGCCACCTAAACT
TTTCAGTCTAGGACTNAGAGCTTGTANCCATNGATCTGTNGGGNTTGNACCTCGGGCCGN
TTCTANAACTAGTNGNATCCCCCGGCT

Sequence=2684;DNA;Homo sapiens
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TCCAACTTTGGAAGAGTGGAAGCCCTAGTTTCAAATTCAAGCATGCTTTGAGTATAAATT
AAGTTTACCTCTTTTTTGCACAGCAACATGGCCAATCTTTCCTAAGCTGCTCAGCTTACAA
GAAAAGGAATCATACTGCTAAGAATTCAAACTTCAGCAGTCATAGGTAAAGTAAGGGAAG
TTTTNTAAACCNTATTTTTAGCCCCCNTACCCNGAACCCTNGNAAATTTTNGCNAGGGTT
TTTTTCAATTTTTCNAGGGACAGGTTGGGGTTTCNCTTTAAATCCANAGGGCCTTTGGAA
NACCNTGGAANAAACCAGACCCTTTTAAAAAAGG

Sequence=2685;DNA;Homo sapiens
CCGCGGTGGCGGGGTTTCGCCATGTTGGCCAGTCTGGTCTTGAACTCCTGACCTCAAGTG
ATCCACCCACCTTAGCCTCCCACAGTGCTGGGATTACAGGCATGAGTCACCACACCCGGC
CAGTAGAACTCTTTAAACCTGAAAAATCAGTCAACTTTGCAGACTAGAGGAGGATGTTGA
ACACCTATGTGTGTATTTTTTTTCTTTACCAACTATGCACCTATTTTTCAGACACCTAAA
AGTAATGTCTGTGAAACAGTGGGTTTTCTTTTT

Sequence=2686;DNA;Homo sapiens
CCGGGCGAATTGGAGCTCCCCCCNGTGGCGGNCGCCCGGGCAGGTACAATGCTTATAAAA
TTCAATAATTTGTATTAAAATACAAAATCCNATAACAACCAGGAGTTCTTCGGAAGAAAA
AAAAAATCACAAAACAACCCCAACAGTGGTGAAGAACTA

Sequence=2687;DNA;Homo sapiens
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCAAAAGCTCCCAGATTATTTGGAAACCA
TGTTTTCTTCCTAGTCCATGGTAACAAGAAAAAGCCANTGGAAGCATCATTCCAAACAAT
AATCTCCAAAGATGGTGGCAACCAAGTGTCAAATGGGGACTGCAGGCACAGAAGAGACCA
CCCCAAACCCTGCCTGGGTGGACGAAGCAGGTATGCTAGAATAGTCCTGTCCTGCAGAAT
AGGGAACGGCAGCTTGGTCGATCTGTGCCCTGGAAAAAGAAAATGAGTTGCAATAGAAGT
GACTNTAAGACAGACAATGAACCTACTNTTAAGAGAGACAGGGCCAGGCACGGTGGCTCA
CGCCTGTATCCCAGCACTTTGGGAGGCTTNAGGCGG

Sequence=2688;DNA;Homo sapiens
GGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGCAGAGACAATGGAATAAACAGCCAAG
AATGTTAAAATAGCTATTATAAATATGATCCTTATGCTCATAGAGAAAAGGAAAAATATA
AGTATAATGTGAAAAGAAATGGAAGATATAAAAAGAAATGCAACTTCTAGAGGTGAAAAA
TATGTCTGAAATGAAAACACCATATAGATGGAATTACCAGGAAATTAGACACTGCAGAAG
AAAAAAATCCATGATGTTGAAGTATATTGCAATTAAAACTATCCAAAATGAAACTGAGAG
GGGGAAAAAAGCCCCTGAAATGTATGAAGAAAGCCTCAGTGACCTGTGAGACAATATCAC
AATGGCCTAACATAAGTGTAATTTGGAATCCCCAGAAGGGGTAGCAGGCCCGAAAAAAAT
AATTGTTTGAATAAAGGGNCAAAAGGTTTTCCC

Sequence=2689;DNA;Homo sapiens
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTATTTTTTTTTTTTT
TTTTTTTGAGANAGTGNGTGACTNTGNCACCAAGGCTGGAGGGNNGNGGNAAGANCATAG
NTCACTGAAGCCTCCATNTNTGGAGTTNAAGGGATCCTCCCGCCTCANTCTCCNAAGCTA
AATTTTTTTTTTTTTTTTTTTTTAGNAANANACATGGTTTCACTATNTTTGCCCAGGCCAG
GTCTAAACCTTNCTNACTTNAANGCAANTNNCTTCTNCCTTTAANCCTTCCCAAAAGGGN
TTTTGGNATANNNTNANACNCAGNCCCTTNTNCCCTGGGCTCTTTCNTTNTTAAAGAAAG

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GACACTTTAAATCANTTTTTNCNCNCNCAGAGATNAATTGNGCAACAAACANTATTANGT
TGGGGTTTTATTTNAGGGTTCCTNNCCCGGNNNGGTCCCTTTNANAAAANNTNNGGGAAN
CCCCCCCGGNGTNTGGGGGGANTTNTNANNNTNCAANTTTATTTTATTNCCCCCCCCCCC
NTCG

Sequence=2690;DNA;Homo sapiens

CGCGGGGGCGGCCGGGAANGGNCCNGGAANGGNAGTCANGCAGGGAGCGTCTGTCCGAAC
GGAGGCTAGGTAAGAATATTTCACCATGAAAATGTTAAAAGACATAAAGGAAGGAGCTAA
ACAATATGGACCCANCTCTCCTTATATGAGAACGTTATTAGATTCCATTGCTCGTGGAAA
TAGACTTATTCCTTATGATTGGGAAATTTTACCTAAATCTTCCCTTTCACCCTCTCAGTA
TCTACAGTTTAAAACCTGGTGGATTGATGGAGTACCTCGGCCGCTCTAGAACTAGGGGGA
TCCC

Sequence=2691;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTGGAGNGAAACAGGAGTGCTTTATGGTCTGAGTGGAGTGTTTG
GGAGGAGTNCCTCCCGGNTCCTGCCTTGGGGCTCACCTCCCG

Sequence=2692;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACATCTTCTCCTAAAAACAAGGGTAGAGCCAATGGAAAGTA
ATGGTTCTGTTACATAGAATGAGTTGTCGCCTTGATCTTAAATGATGTATTGGTAGATAT
ACTTCCCAAGTGGATTAAAAAGTTAAAACTTACAGCATAACAAAGTATTAGACTTACTGA
GGTGACTTGAATATCTCCTTTTGATTTTCACTCTATTTTTCTTTTCACCCATGGGAAAAT
GATAATTTTTTAATAAACCAAGGCTCTTACCATAGCTGAACTTTAAAACTTAGACTGTCT
TTTCTGTAAACGATTCTGAGGCAAAGGGAAATGACTAGAAGAGGATGAGTAAACAATAAC
CTGAAATGGGAAACTCGAGGGAAGCACAGGCTTTTTTTTGGTTTGTTTTGGTTGATNCGT
TTTTTGGTCTTTG

Sequence=2693;DNA;Homo sapiens

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGGCCGGTGGGCT
CCCTGACATCCCTTCCAGGCAACCTGAAAGCACTGAAATAGCTTATGGCCCTGTGCCAGG
GACCTTGGCCCAAGCTGCTGACCTCCAGGGTGGGGAGGGAGCTACCCCCAGGAGAAGAGT
CACTCAGACAGCAGTATGAGCAAGCCAGCCAGCAGCTCCGTGCCTGCACCCAGCTCAGGG
GAATCCCAGGGGGTTCAGATGCCCAGGAAGGAAAAGGGGACAGCGCTACTGCTATGGAAT
GAGACCACCACTTCTCCTGTTGTCCTTCCCAGCTTCTCCCCAACCTCCCCTTTTCCTAGT
TTATAAGACAGGAGAAAAGGGGAGAAAGCAAAAAGCTGGAAAGAAACAGAAGTAAGATAA
ATAGCTAGACGACCTTGGCGCCCCACCTGGCCTGGGNGGG

Sequence=2694;DNA;Homo sapiens

CCGCGGTGGCGGCCGCCCGGGCAGGTACAGAAAATTAGCAAGAGACATTTTCTGCATTGT
GAGAAATCAACATAGACACCTTAAAGACCCCTTTGAGAGTGTGGCTTTTTGAACTTTTCA
GATTTTGCTCAGTGACCTGCTAACACTTACGTGAGAGGCTCCAGGTGTAAATAGAATCTA
ATGGCAGAATCTGTAAGTGTAAACAAGCATCTTAGGAGTGAGAGATCAAGACCACAAAAT
GTCCAGAGCTATGACCACAGCTATACCTACCCATAAAATACGATACTGGAGTAGGGTATT
TTTGTCTTTTTTTTCTTACCTAAGAGCTAGCTAATCAGGACAGGTGATGCAGGTTCTGGAG
CTCTACCAGGGCAAGTTCTATTTTCTTTTTTTTGAGACAGAGTCTCACTGTCGCCCTG

Sequence=2695;DNA;Homo sapiens

CCGCGGTGGCGGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTCGAATATTNCTTT
CAGTGTTCTCAGATTGACTTGACCAGCCTAAGACAGATGCCAGGGACATCCTCTTNTNTG
CCTNTNAACACTTCAGTCAGATGGGAATATGGAAGGATCATATNCAAGAGGATCATATTT
TNTGAAGCCAATCCATTANATGTCAGGAAA

Sequence=2696;DNA;Homo sapiens

TNNCCGCGGTGGCGGCCGAGGTACTGTCCAACCAAAACTTTCCACNGNGAAAATTTTCCT
GGGTGAGCCTCCCAGAAAAGCCCAGCTTAGTGTAAGCCAAAGACCTCCCAAGTCTGTCAC
CAATTTTTTCCCTATTACTCACCTGATCATGTGGGCAATATCCCAGTTGGTCTCTGTAGA
CAATGGTCCCTCTATTTCAACACCTTTTTCGGTGACAGTGGCGATTTGAAACTGGAAGAA
AGCAGAGCATTCAATAATGCCCACGCCTTAAGTCCTTAAATGAAAGGTCAGGTGGAGGTC
TTCCCCAATGTGAAAATAGGAGTCACACAAGTAAGGCGNATCTGTTCTTCAAAGCATAGG
CTC

Sequence=2697;DNA;Homo sapiens

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AGGTACTATAATCTCCTTCTCCACTGGCAAACAGATTATACCAGAAAACAGCAGTTCCCT
ATGGAGAACAATTTCACAATTATCCCCAAGTATACAATGCCAGGTAATTGCTTTCGGTAG
TTATTACTTTTTTTTTTTTTGAGACAGAGTCTTTGCTCTATCGCCCAGGCTTGGAGTGCAA
TGGCTCGATCTTCAGCTCACTGCAACCTCC

Sequence=2698;DNA;Homo sapiens

GCGGNCGAGGNACAANCNACTTGGGGGGGCANAAAACCNGCCCCCCCCACGANGAGAAGG
GGACNANGAGAANNNTTTACACACAAGNGGGGGANNNCCCCCNAAAAAACCGGGCGCAGN
GGCNNACACNNNGNAANNCCAGNACNNNNGGGAGGCCGAGGCTNTTTNAAAAAAATTNNT
TTNGAGGGGGGGGGGGCCCCCGN

Sequence=2699;DNA;Homo sapiens

CCGGGCAGGTACGCGGGNTTCCGCGGGGCTTGCTGGGAAGAGAGGCGAAGCCAGGTCACC
TTTCAAGGACCCAGAAGTAGGGTTTTGGCCTAGGTAACCGGGGCAGAGATGTGGTTCGAG
ATTCTCCCCGGACTCTCCGTCATGGGCGTGTGCTTGTTGATTCCAGGACTGGCTACTGTT
TNCCT

Sequence=2700;DNA;Homo sapiens

ATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACCCTCTGCTTTTGCAAG
GACTCTACTGTGTCATCTTAAGTGAGACAGGTGCATATGTATACTAGTAAAATTCTCTGC
TTTCCTAGCATTGGACAAAAACAAAAATCAACAAAAGAATTGCCTCAGTGTCTTAAACTG
GGATCCTTACTAGTTGACTAGGCACTTAGTTACTGAAGGATATGTGTGGAATTCAAGTTC
TTTTCAACCTATAAGAAATATCCGGCCAGGTGCAGTGGCTCACGCCTGTAATCCCAGCAC
TTTTGGGAGGCCGAGGCAGGAGGATCACAAGGTCAGGATTNTCAAGACCNGCCTGGCCAA
CATAGTGAAATTCCTGNCTTCTACTAAAAATN

Sequence=2701;DNA;Homo sapiens

CGGCCGCCCGGGCAGGTACTATTACTAGGTTCATTGTTTCCAGAGGGGTGAAACGGGGCT
TTGGAGAGGTTAAATAACTTGCCCAGGGTCACACAGCTATTAAGTGGTAAAGCTGGGATT
TACATGAGCCCAGACAAAGAACCCAAGAAGCTAAGCTATTNTCTTGTAATACCTNCAACA
TAGGAGGCAAGAAGTGAGGTATTATACAGGTTGAGGAGATA

Sequence=2702;DNA;Homo sapiens

CCGGGCAGGTACGCGGGCATCAGCTCCGTGGGAACTCACGAGCCTGGGGAGAGTTCGTCA
TCCCCACATGGAACCTCAGTATGGCCAACAGGCAGCCCTCTGGTGGAAAAATCAACAATC
AGTCCTTGCANCAACTTGATGGAACNCTAGTTGACCACCATAAAGATGTCAAGCCAGGCA
GCA

Sequence=2703;DNA;Homo sapiens

AGGTACTACTGCTGAGGTCTCCAGGACAGAAGTCACCTCCTCTGGTAGAACATCCATCCC
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TGCCTCGCCCACCATGACAGAATCAGCAGAAATGACCATCCCCACTCAAACAGGTCCTTC
TGGGTCTACCTCACAGGATACCCTTACCTTGGACACACCCACCACAAAGTCCCAGGCAAA
GACTCATTCAACTTTGGCTCAGAGATTTCCACACTCAGAGATGACCACTCTCATGAGCAG
AGGTCCTGGAGATATGTCATGGCAAAGCTCTCCCTCTTCTGGAAAAT

Sequence=2704;DNA;Homo sapiens

CCGGGCAGGTACAGTTGGACCTGCTGGCATTCGAGGCCCTCAGGGTTCACCAAGGCCCTG
CTGGCCCCCCTGGTCCCCCTGGCCCTNCTGGATCTCCAGGTGTAAGCNGTGGTGGTTAT

Sequence=2705;DNA;Homo sapiens

CCGGGCAGGTACTGTAGATTGAGATATAACAAAAAGATGATTTCTGAAATAATATTGGGA
AAAGAATTTACCGGATGGTATTTTGTATCTTTGCACACCTCTGTTGTTATGATGCTATAA
GGCAATCTTGTCCAACCAGCAGCTCACAGGCCACATGCCACCCAAGATGGCTTTGAATAG
GGCCCTATACAAATTCGTAAACTTTCTTAAAACATTATGAAATTTTTTTTTTTTTTTTTT
ACAATAAGGCTCTTGAAAATTGTCATTACTTGTGTTTTCCTATACATTCATCTGTGTGAA
AGCCTTTTTCTTCTTTGATTTAAAAAAATTAACTATACAGTTAATGGTTTAGAACTTAGA
ACTAC

Sequence=2706;DNA;Homo sapiens

AGGTACACTCAAAGGCTATGTTCTCTCTCAGGACTCAAGATGAATTACTGGCAGAATTCC
TCACTACATCCTTTAATGGAAACCTCTGTCGGTCCTCATCATCAGTGCTTTCATATTCTG
ATTCTTCACTAGATAATTCCTCATCCTCGTCTGGCAAAGGAGGTTCCTCAGGTGGCTGAG
GAGATGTGGGTGGAAGAGGTGCATGCAATGGCATATAGTCTTCATACATGGGAGGTCGCG

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CAGTAATTGGTCCAAAAGGTGTGGGCAAATTCATTTTATTCATAAGATGAAGGACCTGTN
CCTGCCCGG
Sequence=2707;DNA;Homo sapiens
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GCACTTTGGGAGGCCGAGGTGGGTGGATCATGAGGTCAAGAGATCNAGACCATCTTGGCT
AACAANGTGAAACCCTGTCTCTACTAAAAACATAAAAAATTGGCCCGGGTGTGGTGGTGG
GCACCTGTAGTCCTAGCTACTCGGGAGGCTGAGACAGGAGAATCGCCTGAACCGGGGAGG
TGGAGGTTGCAGTGAGCTGAGATGGTGCCCAACAAGAGGGAAACTNCTTNTNAAAAAAAA
AAAAAAAGAAAACACAGGTATAATTTCCTACCATGTTCTTACNGGATCATAACTTTAAAT
GGTCACCCGCGTNCCTTGCCCGGGGCGG
Sequence=2708;DNA;Homo sapiens
TGGCGGCCGCCCGGGTNGGTACCAAAGCCAGATCCTCCTGTTTTGTAGCAGGAAGCCCTT
TATTAGTTNNTCTCTATCAATCCATCTTTNATAATNNCCAAAATAGGATAAG
Sequence=2709;DNA;Homo sapiens
CCCACGCGGGCGAAATTTTGGGGAGGGCAAACACCCCCCGCGGGNGGGCCGGGGCCCGCC
TCCNAGTAAACCTAAGAGGGGGAGGNTNTTCCAANNCCCCGCAGNTNNNTTAAAANCCCC
ATCAAGGCCCNAANCGGAANAACCCGGGGGGGGACCCATCTNAAGGGGGGGGGGGGCCCCC
CGNGGNACNCCCAAGCCAANNANGGNNNCCCCCCGNAAAGNNGGAGGGGGGCGNAAAANA
GGCAGCCGCCCNCNNGCCGGNAAAANCAAAGGGGGNCCAAAAAGNCAGGGGGGGACCCNG
GGCGGGGGGAAAAAAAGGGAAAANCCCCGGCNCCAACCAAAANNNCNANCAACCAAACCA
ATAACCAAAAGCCCCGGGGGAAGGCCAAATAAAAANNGAGGGGNNAAAANGCCCCCGGGG
GGGGNGGCC
Sequence=2710;DNA;Homo sapiens
ATGGGGGAAAACCCCGGGGGCGGCCGCNCNAGAACTAGTGGAGGNNTCCAGCCCGCAGGN
AANNAAACCACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCAA
CNGGNCCCCCCAGNGAGGGGGAAAAAGCGCGCCGGGCGGAANCAAGGNCAAAGCAGGNGC
CCGCGGGAAAAAAGGNANCCGCCCACAACAACCACACAACAAACGAGCCGGGAGCAGAAA
GAGGAAAGCCCGGG
Sequence=2711;DNA;Homo sapiens
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTT
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CTCTTCTCATGTTTTTTCCTGCTTTGAAACTCAAGNGNTCTCTTTTACTTAATANATCAA
GATCCAACACTAATTTGACATTAAATCAAGACTCTNTACAAGTNGACTATCNCTAACNGG
CTGGGGGACTTCTGCGGAA
Sequence=2712;DNA;Homo sapiens
ATTGNAGCTCCCCGCGGTGGCGGCCGAGGTACATTGCTGGCCTTTGCCCAAATTATGCTT
NCCCCATTTGGTATGACCTGACACCATTGTGATCAGTCTGATGACCTGGCAGCATCCCAT
CTGCCTACCCAGTTCACTNTTGCTCCATTTCAGGGCCTCTTACAGGCAACTNCTNACATA
TATTTTTGACACTGACTCATGCCTTCTNAGGCTNAGCTAACATCAGCCCATTCATTGATN
CAGCAAGACAATTTGAGAACCACTATGTGCTCTGCCAGAGTGAATAACAAAACCGCAAGT
ACCTNCCNGGGCGGNCGGTCTAGAACTAGT
Sequence=2713;DNA;Homo sapiens
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTT
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CTCTTCTCATGTTTTTTTCCTGCTTTGAAACTCAAGNGTTNTCTTTTACTTA
Sequence=2714;DNA;Homo sapiens
GGGGGGGGNTTTGGGGGGGGAAAAAGCCCCGGGCGGGAGNGGACAGAAAAAGANNTNGGG
GNNGNGAGGGGGTTAGGAGNAANCCCNNGNGGGTTTTCCNAAACCCCCAGNGANGCCGGG
NCGGCNGNGCGCGCANNGGAGGGCAGNGCTATGNANCCGNCNNGGGNACNCCCAGGCCCN
GGGNNCCACGNGGCCCNNCCGGCACGNACNGNGCCGCNAAACCNCGGNAGGNCAGGCGAN
GNANCCCNCNGCANAANNGAAGGAAAAAAAGGGGAAAAGCGGGGGCAAAGAACCAACAAC
NCNGGGGGAACCACAAGCNAGGGAACCCCGNGAGAANAANANANCNGGGGANAANNNNGG
GGNGGANAGNAANAACAAAGGGAAAANGGCCCCCGAGGCGNGGAAAACCCAAAAAGAGAG
GNNAACGGGGGGCGGNNAANNGNACCANNGGCGNAAAAAAAAAAGANAAAAAGAGGGCNN
GGNGGGGGGGNCGNAAAAAANAACACACGGGACCCCNNNNAAGGGGGANACCCNCNCGGG

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GNGCCGGGGGGNCCCCAAGNAAAACCNNAAAGGGAGGGGNANNCCCCCCCCCGNGGGACC
CGNANNAANGGGAAAAANCCCCGGAANGAAAGNCAAAAGGCCCNNGNAAACCGGNAAAAA
ANCNCGGGGNCAGAACCCCCCNCANAANGGGGGGGGGGGGGCCCNAGGGGNAAACCCCCA
AGGCCCGGGGGGGGGGNGNNCCCCCCNNNNCAANNNNNNNNNNAAAGGGGNNNCNAAAAAA
AAGCCAGCCGGCCNGCGGGNNCGGGAAAAAACNAACGGG

Sequence=2715;DNA;Homo sapiens

TCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATGCCGATCTCTGAGAAGTTNTGTTGCA
CCACTGTGAAGGTCTAGATGCAAGCTTGGCTCCCTCAGAAAGGCGCTTCCCTTTTGCATG
GCTGAGGATCCTTGAAGGAACCTGGTCAGTCTCCGGTTCAGCTTCCGACACCAGAGTGGA
ACCCAGTAAGCACCATCAGGAATGGATTTCACTACAAGTGTGGATAACTCTGATTTTCAA
AGGAGTAGTTACTTGCAAATTACATCCTTGCTGAATTCAGGAGGTATGAAACCCTATTTT
ACCATGTTAGAAAACAGCCCAGGATTTTCTCATTGCTCTGCCATCATATATGTCTATGAC
TTGAGCCCTTATTTTTCCATCTGCAAAACAATAATGCCTATATGTCTTTGCATATAGATT
TGGAAATCTTCATTCAAGGTTTAGTAGGATCA

Sequence=2716;DNA;Homo sapiens

CCGCGGTGGTCGAGCGGCCGCCCGGGCAGGTACTTTTCTTCTTGAAGTGAGTTTAGATCA
CGTTTCAGCAAACGTCCTCTGGAGCTCCTTCCTCTGGGGAAGGAGCAGCGGAGGGCTGTC
ATCACCACTGCACTCTTCCAACCTTCTCTTCTGCTCATTCACCAGTTCCATCCTCATCTG
ACCATATTACTCCAGGAACTTCCCTTTTCCCTTGTAAATTCTGTTCCATTTTTGGCCAAA
CCATGGTTTGCCTCTGCTGCATTAGTTTGAAGTCATTTTTTTTTCCAGACATTGTGGCGGT
AGTTCCCAGATGTCCGAAAAGATGAAGTTATCAGTGCACGAGCAGCCAGGGCTTTTCTTT
ATGTTGATTCACCTTAGGACACAGCCCAACAATGCCTGCAATTGTCATTAGCCCGTGAAG
AGGTTCGCTTAGGGCTGCCACAGCACAGAGTCCCAGCTGCGCCCGTTTCTTCCCCCCCC

Sequence=2717;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACTAATTTTTTTTTTTTTTTTTTTTGTATTTTTAGTAGA
GACGGGTTTCACCTTGTTAGCCAGGATGGTCTCTATCTCCTGACCTTGTCATCCGCCCAC
CTCAGCCTCCCAAAGTGCTGGGATTATAGGTGTCAGCCACCGCGCCCGGCCTGAATATCT
TTTTTATTTTTAAGCTTTCAATAAATCTTACTGACATCTAATTGATAAAAGTTGCACATA
TTTAATGTATACATTTTGATGAGGTTGGACATATGCATACACTNGTGGTACCTGCCCG

Sequence=2718;DNA;Homo sapiens

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTT
GAGACGGAGTTTCACTCTTGTCACCCAGGCTGGAGTGCAATGGCGCAATTAGGGTTCACT
GCAACCTCTGCCTCCCGGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGA
TTACAGGCATCCACCACCGTGCCCAGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTT
GCCATGTTGGACAGGTTGATCTCAAACTCCTGACCTCAGGTGATCTACCCTCCTCGGCCT
CCCAGAGTGTTGGGATTACAGGCATGAGCCACCATGCCAGGCTGCTAATTCTCCTTTTTA
GTGAGTTAGGGAACTGAGCCTCAGAAAACTTAAACGATTTCTCAGAAAACACTCAAGTGA
TAAAGTGGCCCCATTGGAAAGGAGGTTTTTATCTTCTCATTGGCAGGCCCAGNGTTCATT
GCACAATATCATGCTACCTCTTGGAATCTTTTAAAA

Sequence=2719;DNA;Homo sapiens

TCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAATTTTTTTTTTTTTT
TTTTTTTTGTATTTTTAGTAGAGACGGGTTTCACCTTGTTAGCCAGGATGGTCTCTATCT
CCTGACCTTGTCATCCGCCCACCTCAGCCTCCCAAAGTGCTGGGATTATAGGTGTCAGCC
ACCGCGCCCGGCCTGAATATCTTTTTTTATTTTTAAGCTTTCAATAAATCTTACTGACATC
TAATTGATAAAAGTTGCACATATTTAATGTATACATTTTGATGAGGTTGGACATATGCAT
ACACTCGTGGTACCTGCCCG

Sequence=2720;DNA;Homo sapiens

CCGCGGTGGCGGCCGAGGTACAATACAATCTAGATGACGGTGCAGACTAAGTCAAGAACT
AAAGTTGTGCAGTAACCCGAGTTAAGGCATGAATGCGGACACACACATGCACACACACAG
CACCCATGCTATCAAGACACAGGATTTTTTCAGTTGCCTCATGAGAGGCAACCTGGGCTT
GGCAGTTAATCAGAACTGCTGAGCATTCCAGAAAATGCCCCCCACGACTTTATGCTAACA
GCTGTGTGTATGTTTTAATCAAAAAATTAAAGAAGAAAAAAAACCTAAAAAACAAAGAAA
AAAACAAACAAAAAATCACCAAAAACCTAGAAACCCCTTAATCTCTTACAATGGCTCTTG
AGCATGGAACTCATGTAGCAGCATCAATGGCTGGCTCTTTAACAATTTGGAAATAAAAGG
TTGGTTTACTATGTATTTCTTTGGTAGTCATCACTACCAAAGTT

TABLE 2
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Sequence=2721;DNA;Homo sapiens
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CTGGTCATGGCATNAAGGCTCACTGCAGCCTGGACCTCCTGGTTCAAGNGATCCTCTTGT
NTGAGTCCCCTGANANAAAACCCCACCCCCNNCTACANAAATTTTNTGGAAACANGGGCN
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CNCCTAAAANAGCTGGGANTTATAAGGCATGANNNAATTGTANCCTGNCCCGGCGGGCCN
CTTTANAAAAAGTNGGAANCCCCCCGNCCTTGCAGGAAATTTCATTATNCAACCNTNTNN
NAATCCCCCCCCCCCNCCAN
Sequence=2722;DNA;Homo sapiens
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CCCGCCTTGGTCTCCCAAAGNGCTGGGATTACAGGCATAAGCCCCCGTGCCCGGCCCACA
TGGTATTATTTTATATAAAACGCAAGTTAAGTNTTTATGTGTGAAAAACTTTTTTTGAAA
CTTTNTCAAAAAGAANTTNACTTATTNGTTAAAACCNTTTTTTGNCCTAAGGGCCAAATA
NGNGAAAAAAAANCCCNNATTNNNCTTTTTANATTTTTNTTGGCNAAAANTNNAAAAAAN
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Sequence=2723;DNA;Homo sapiens
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AGTAGCTGGGATTACAGGCATCCACCACCGTGCCCAGCTAATTTTTGTATTTTTAGTAGA
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NNGNNGGGNTTTTTTTT
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GTCGGTGTTAAGAGAAATTACTCTCACAAGAGCAGAGGCCTGAAGATTCTTTCTTCTGAA
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CCTATTTTTTGGAGGGCGTTGGG
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TTAAGAGCAGTCTTTGGCTGGGCACGGTGGCTCACACCCGNAATCCCAGNACCCTGGGAG
GCCGAGGCAGGCGGATCACCGAGGTCAGGAGATCAAGACCATCTTGGCTAACAGGATGGT
CTTAAGGGACAGNGAAACCCTGTCTTNAACTTAAAATACAAAAAATTANNTGGGCGTGGT
GGGNACCGCNCCTGTAATCCCANCTACTCAANGAGGCTNAAGGCAGGANTAATCACTTTG
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GGGCCGAANAANAGCCANGGACTTTCATTTTTAAAAAAAAAAAAAAAA
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TACTCCTAAATATGCCCCCTGNGTTCA
Sequence=2727;DNA;Homo sapiens
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CAAAGTCCTTGACAATNTGACACCAGCTTTTNTAACCNTATAAGGCCC
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ACTACTATGCAAGCCGAGTTCCAGAATCTATTAAAAATGCACTTGTTCCTTAAGGGAAAG
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CAGGTGGATCACTTGAGCTCAGGAGTTTGAGACCAGCCTGGGCAATATCGTGAGACCCCA
TCTCTACAAAAATACAAATTAACTGGGCATCCTGTCATGCGCCTGTCGTCCCAGCTACTT
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CAAAAACCCAAAAAGTACCT

Sequence=2729;DNA;Homo sapiens
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TAAACCTTGTCNTTGCTCAGCNTGCATTTTAATTGTAATTNGGTCCAACNGCGCTGGANG
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Sequence=2730;DNA;Homo sapiens
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GACCTTTTTAAACTCATTTTGAAAAAAGAGGATGAATTGGGGGATAGATCTATAATGTTC
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CAGCCTGACCAACATGGTGAAACCTCATCTCTACCAAAAAAAAAAAAAAAAAAAAANGTACC
TGCCCC

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TCTCATCCACTTCCGATTCTCTTCATTGGCTGCAATATCTTTTTCTTCAAATCCTATTTT
GTTGGCTTCTAGGAAACCAAGCACATCTTGTTGTTTCTTCTTAATCGCTGTAGAGCCAGA
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TCCTGAAAAGGGCTGTGGAGCAGCTGCAGCAATGGCTGGAATCCAGCTAGGGGCTGAAAC
AACGGTTGGCAGAGAAGGGTGGGGGAAGTGGGAAAAAGGAAGAACTCGCCAGAAGCCCCG
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AGCAGGCCTGGGGTGTTCAGCAACTATTCCTGGCCGGGGCATCTTGCAAAGGAGTTGCTG
TGACAGTAAGCTCTTCCACTTTGAGACCGTCACCTCAGCCACGGCTCCCACCTGGGCTCA
GGAATGGTCAGGCAACACGTGGGGCCCAGGATGGCGGTGGATGACTAAACTGCCGAAGAC
CGCGCCGCTGCGACTACCGAAGTACCTGCCCG

Sequence=2733;DNA;Homo sapiens
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GATAACTGAAATATAAATTTAAATAGGATTGGAAGCTAAAGCTAGGAAATTACCCTAGAA
TGTTTTTTGAGAAATGGAAAATACCGAAGACCAAAAAAATAAAATAAAACTATGCTGTGA
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AATTTA

Sequence=2734;DNA;Homo sapiens
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AGGGAGCCGAGGTTGTGCCACTGCACTCCAGCCTGGGAGACAGAGCAAGACTCTGTCTCC
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TTTCTTTAAAAAATAAAAATTAAAAATAGGCTTCAAGTGATCCTCCCGCCATGACCTCCA
AAACTGCTGGGATTGTAGGTGTGAGCACTGCACCCAGCCGTATGTTTTTTTCTACATAAA
AAACAGCACAGGATTATCTTCCAAAGCTAACAAATATGTTCAAATAACCACAACCCCAAN
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CCCGGGGC
Sequence=2735;DNA;Homo sapiens
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GCCCGCNGNCCAGGCGGGAAACCCGGCGGGCCAGCNGCAANAAAGAAAANNNNNNNNNNN
NNNNNNNNNNNNNGNNNGCGAAAAGGGCGCNCNNCCGCANCCCCGGACACCNAAACGCNG
NGCNCGGNCGGNCGGNNGNGGNGAGCGGGAANAGCNCACCCNAAGGCGGGGAA
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TGTTCTCCTTGTTTTGGAGAACTTTCTTTGGACTGTATCTTCAGAGACACTCCTGGTCAA
GGGGCCTCAGAGGACCCAAACGCTCTGAAACAGCGTCTTAGCTCATCGCCGAGTGTCAGC
TCTAGCTCTTCGGAGCGCTTTCTTCTCCCCCCGCGTACCT
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GGGGGGGGCCCCGGNTACCCCAAATTTT
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GNGTTCTGTTCCATCTTTTT
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AGGAGCT
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CCGACCTTCTCTTCTTCTTGAAAACCCCTTCCTNCCACAGCTTGCAGCCCCATCCTCCCC
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TACGGGCACGTGCCACCATGCCCGGCTAATTTTTGTATTTTTAGTAGAGATAGGGTTTCA
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Sequence=2743;DNA;Homo sapiens
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Sequence=2750;DNA;Homo sapiens
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Sequence=2757;DNA;Homo sapiens
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Sequence=2758;DNA;Homo sapiens

TABLE 2
415/3461

GCGAATTTGGAGCNAAACCNCGGNGGCGGCCGAGGTACTTCGGGGAGAGNNTNTCCTNCC
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NGGGGGGNCCCCC
Sequence=2759;DNA;Homo sapiens
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AGCAAATTC
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GCGGAGCAAAATATGCTCCAATTGTGTTTTCTTTTGATAGATTCTTTCAACAGACAGTCT
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GNNTNTTTNCTNTTTTNANACCCCCGGGGGGG
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ATTGTTGTTTTTTTTAATAGTCATTCCAAATATGAGATGCATTGTTACAGGAAGTCCCTTG
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Sequence=2763;DNA;Homo sapiens
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ACCAGGCCTTANCCATCCCGGGTACCTNGGCCGTTTTAAAANNAGGGGNATCCCCCGGGN
TNNANGAATTTNNAAANTNAAAGCTTNNNNGAAACCNNCCCNCNNTNGNGGGGGGGGCCC
CGGGCNNNAAATTTTTTNTTTNNTTNAAANANGGGNAAAAAANGGNCCCCCTTGGGGNNA
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NNCAAAAAAAAAAAANAAANGGGNGGGAAAAA
Sequence=2764;DNA;Homo sapiens
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AGGAGTGCGAGACCAGCCTGGCCAACATGGCAAAACCCTGTCTCTACTAAAAACACAAAA
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Sequence=2765;DNA;Homo sapiens
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Sequence=2766;DNA;Homo sapiens
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CCTCCCAGCTCAGCCTTCAAGAGTAGCTGGGACTGCAGACCTGCACCACCACGTCCAGCT
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Sequence=2773;DNA;Homo sapiens

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GAACTTGTCCCAGGCTACCAGCCTGCCAGCTGAGAAAGAAAGCATGGCTTTTGCATCTTT
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Sequence=2774;DNA;Homo sapiens

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CGCACCCAGCCTAAGATCCAAGATTCTTATGTTTTCTCTCCTTGCCTTTTGGAACCTGCC
CGGGGCGTGAGCGGCCCGCCGGGCCAGGTACCAACNAGAAACNCAAACACCTTGCNCAGT
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TNGGCTTAAATTTTAA

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CCCCCTNTCCCCATCGCATCTATTTTTTGTTTGTTTTNTTTTNTTCCCAAAGAGGGAAAA
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Sequence=2779;DNA;Homo sapiens
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Sequence=2780;DNA;Homo sapiens
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Sequence=2792;DNA;Homo sapiens

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Sequence=2800;DNA;Homo sapiens
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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2
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Sequence=2837;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACTTCGTTGGTGCCTCAGTCTTTAAGGATTAACTA
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CCTCCATCATTTCCTTGCTCTCACTTTTAGACCTATTTCCTGACATAANAACCTTGGTGG
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TGTCGCCCAGGCTGGCATGCANTGGNTGCTCAAGTGATCCTCCAGCCTGTGCCTTNCTGA
GTNAGCTTGGGACAACAAAGCACAANGCCACCAGGTNCTGGCTAATTTTT

Sequence=2838;DNA;Homo sapiens

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ACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACC
CCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGG
GCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAAGTTTATCAA
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Sequence=2839;DNA;Homo sapiens

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GGTGTGAGGGGAGATTTAACTAATCTGTTTTTTCCTTTTATTCCACTTATTAAACCCAAA
TGTTTAATCAGTTGTCCCTAATATTGTTTAGTGAATAATAATTGCAAATAATATGGTTTT
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Sequence=2840;DNA;Homo sapiens

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CTTCCCCAGAGCACTGATTTATCATTACACAAGCACAAATCTTTAATTCTCTAATCACAT
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Sequence=2841;DNA;Homo sapiens

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AGAAAGTATTGTGCAGTGTGATGGCCTTTTAACCTCACAATATACATTTTATTTTTATTC
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Sequence=2842;DNA;Homo sapiens

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Sequence=2843;DNA;Homo sapiens

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AGTGAGCGAACATTTCCTGATAAATGCCTTTTAGAGATAGGTTCTTGATATTCAGACATC
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ACAGCACTTTTTTCCACATAAATCTAGTTGCCTCTCCCTGTGGACATTCAGAACTGATAGA
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Sequence=2844;DNA;Homo sapiens

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TABLE 2

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TTGCC

Sequence=2846;DNA;Homo sapiens

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GCTTTGGGAATCAATTCACTTCAATATATTTTACTGTTCTCAGTGAAGAATGTGACTAAT
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ATGAGTTGGAAAATAAC

Sequence=2847;DNA;Homo sapiens

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TGAAGGATGCTGCCTTGGCTTGCAAACCTCTCAAGCTCCCCCAGAGTAGCCTTCANGGTC
CCCTCCCCGCTACACAACAGCAGCCAGCTTTGCTAGCAGTCACTTCTATGCTTCTCTCCC
ACTGACAGTTACTGNGAGTGAGCCTCTGCAAGTATTAACAGCGCCTAATTAATGCAGTGA
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TTTTACAATGGGCTTGTGAAGGGGA

Sequence=2848;DNA;Homo sapiens

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ACATGAGAATTTATAGGCCAAGAGATTTTAATGTAAGCATTCTTATAATTAAATACCTCT
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Sequence=2849;DNA;Homo sapiens

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TABLE 2
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Sequence=2851;DNA;Homo sapiens
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Sequence=2852;DNA;Homo sapiens
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TABLE 2

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TABLE 2
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TABLE 2

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Sequence=2872;DNA;Homo sapiens
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Sequence=2875;DNA;Homo sapiens
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ACAGCTAACCCAACCAAGGTGGTCTGGAGAGGCTTCCTGGGAGACTGATTTAGACTTAAG
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Sequence=2876;DNA;Homo sapiens
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TGATACTGAAAGANTCCCTGTAGAGGAATAGCAACTGGATANGTAAGCNACTGCAGAAAA
AAAGGTGGGNAAAATTTGNTTAGGGCATATCCTTTANNTTTAAACTTGAACTTTCTTCCN
ACNACCNAAATTATAGNACCCCAAGGNACCTTTGGCTTAACCTGCACNCTTAATGGTTNT
NCAAAATTAAAAAAGNGGAAAACCAAGGTTNGGCATTAATTGGTTTTTACNAAAAAATTT
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NAAATTNGNTTGGGNGGAAAATTCNCCNTNGAAAATTTTGGGGTAATACCCCTTTGGGGG
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Sequence=2877;DNA;Homo sapiens
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AGTGGGTGTATAAACACATTGCTGCAATTAAGTGATGGAGACATGAGTGTTCATTGCACT
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Sequence=2878;DNA;Homo sapiens
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TABLE 2

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GAAAAATATCATTCCTATTCTTCTTGGCTATAAATTTACCCATCAAAGTTAAATTTAATT
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TCCTGAGCTCTTATAAATGAAACTGCTGGGAGCTGTGCACAAGGCTTAAACTAAAGAAAC
CTCTTAAAGACAGTGTGGATATCACTGAAAGTATTTTGGGGGAAAACTAAATTTTAATGT
AAAAGAGAACAACTTTTAGAAAGAAGAGAACCATAAAAATAAAATGCAGCACTCCTTTGA
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Sequence=2879;DNA;Homo sapiens

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TTTGCTTTAAAATGTTCTCTTTACTCCATTTCCTTAGTTGATATGCTTGAGGCATCTTGT
TGAATCCATCATTTATTCACCCACTCATTCATTTCACATGTATTTGCAGTTGCAAAGCAG
GCAGTAGGAATAAAATTAGGATCAAAATAAGGTAGTAAGTAACGAAATTTGCTGAGTATG
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TCTCCTCCTGTTATTTTGGTAA

Sequence=2880;DNA;Homo sapiens

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ATTAAAGTAGCAGTTAGATAATGTTTTGTCATTTAGGTAAAAATTACAAAAGAATCGGCC
GGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTCTGGGAGGCCGAGGCCGGCAGATCAC
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CCANGAAATTAGTTGGGGCCGTGGTG

Sequence=2881;DNA;Homo sapiens

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ATGGTGAGTTATAGGTTGTATATTATAAGGAGCATTTCTCAGCACTGAAGAAATTTCACT
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TTTACCTTTTTTATAAATCTTTTAAAAACAAATTTGACTTTAAAAAAGCCCCAATTTTAAA
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Sequence=2882;DNA;Homo sapiens

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AGTGTGAATGCCCTGAGCCATGAGGTAACCCTGTTCTGAAGTGGTTTCCTTGCTTGTAAA
TAAATAATGTTGACATGTAAAGCAGGACCACCAAACTGTAAGTCTTGTAGTAATTTTAAT
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Sequence=2883;DNA;Homo sapiens

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ATTTCTTTAAGAGGGATTATATTTCCTCCTTCCTCCCATTCTCCCTTCATTTCTTCCTAC
CTCCCTCTTTTCATCCTCTTCTCCTTTTATCTTTTCATCATTCCTTTCTTAAGCATTTTA
CTTAGTTACTACTATG

Sequence=2884;DNA;Homo sapiens

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TABLE 2

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ATGAATTATCAAGGAAACAGAAAGAAGAATTATGGCAAAGGCTGAAGAATTTATTGACAG
ATGTGTTGTTAGAAAGCCCAGTGGATGGGTGGCAGGTAGTGGAAGCCCAGGGTGAAGACA
ATATGGAAACCGAACATGGCTCAAAAATGAGAAAAAGCATAGAAATAATTTATGCAATTA
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Sequence=2885;DNA;Homo sapiens

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AGATTATATTAATGCTNATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACNGA
ACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAAAGGG

Sequence=2886;DNA;Homo sapiens

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AAGATAGGCTCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAATTGAT
AAGCCCAATAGAAGGGAAACCTATACAAAGAAATAGAAATAACTAAGCAATCTGAAATGG
ACTTTAAATAATGATGTTTACAATTCTCTAAGAGGAAAAGGAGCATTAGCATCAGTGAAA
CAAAAGTAGGGCTATAGAAAAAACAATACTTATGAAAAAAACCAATTGGAAATTTTTAGA
TGGAAAAGCGCGAAGTAAAAAATTCAACCCCATGGTCTAAAAGAATAAAACTGCACCCAG
CTGGAANGGGAAAATTANTTAATTTTTACGAAGAAACCAATTAAATCTTACCAGAATGTA
AAGGAGATAAAGATNTTTTAAATAAATCNGGAGTTTAGGAGATNTAAACTTTTTTCCATA
TGGAGTNTTTTAAATATCCATATGGTTATTATGTATTCCATATATATCCCNAAAGGGGAA
AGGG

Sequence=2887;DNA;Homo sapiens

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TTACTTTCAGAAAGAATTTGAGATGATTTTCTTTAGTAGGGGTGATAGTGGTAAGGCCCT
TCTATGAAGTATGTGATGGATTGGACTACTTCTGAGAGCCCTTTCTTCTCTTAAAATCTT
ACGGTAAAAGTTTTTGAAGAATCATATTTCAAGAACTTTTTTCTTCTTCCACATTAGCCA
TCTTCAGATAATAAGAAACCAGATACCTA

Sequence=2888;DNA;Homo sapiens

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CATCAACCCCCTTCTTTTGGGTTGGTTGTGTTTTACGCACCTCCTCCTCTTTTCCTCACT
CCACTGGTTTGCAAGTTATACATTTGATTTCTTTTCTTTCAGTGCCATGCTCTGATAAAA
TAAAGGACATTTATTACAGAAAA

Sequence=2889;DNA;Homo sapiens

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CATAAAACCGTGATTTGTAGATTTTAAATCTGAAAAACATTCTCATATGCACCATAAATT
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Sequence=2890;DNA;Homo sapiens

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TABLE 2

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Sequence=2891;DNA;Homo sapiens
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CTGAATNTGGTGTAAGTCATTTTTAAAACTTCTGGCCAAAACCCAACCATAATATGCTTT
CTTGTAAGCCANCTTCATATACCTAAAGAAAACATGTGAAAGGCCGGGCACCGATGGCTC
ACTCCTGTAATCCCAGCACTTTGGGAAGACGAGGGGG
Sequence=2892;DNA;Homo sapiens
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AGGTAGTTGAGAATGAGTGCCGTATAGTGAATAATAGTAGATTTTTACCCCATTTTACCC
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TABLE 2

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Sequence=2898;DNA;Homo sapiens
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GTGAG
Sequence=2901;DNA;Homo sapiens
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TABLE 2
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CAGACAAGTGGATCCAAAATCTACCAATGATCTTGCATTACATTAAGGGGAAAAGTATCT
CCTTAATGGGGAATCTTTACTTTTTTTTTTTCCAAATTGTGCCTATCACATGATCTTATGG
ATAGATAATGGTTGGTATTCCTGGTGGATTCTTATGNGCAAAAAAAAGAGAACTTGATAC
ATTGGTTAGTTACATTGCTCTCTTTCTGNGCATCAAGCTTCAACTATCAAGATTTCTAAG
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CTTTTAATTAAAATCCCN

Sequence=2904;DNA;Homo sapiens
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Sequence=2905;DNA;Homo sapiens
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Sequence=2906;DNA;Homo sapiens
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ATACTCACAGATGGATACTCTGTCCAAATGAGTATTTGTGATTGCGCATTTACACACACA
TATAATTTGTCATTGGTAATTTTGTTGCAGAAATTATTGTGAGAAAATAAATTTTAAAAG
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CAAACTGATTAATTAATGTAATTATGTTAAACTTCTCCAGTTAAAAAAGAGAATATACAC
TGCAAAGCTGAATGTGTATACTACTTGTTGAA

Sequence=2907;DNA;Homo sapiens
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TGGAAGGGAAAAATGGAAACAGGGCCCTTAATTTTTTCTCATTATTGGATTAATTGGAAG
CACTAGGCATGGTNTGCTT

Sequence=2908;DNA;Homo sapiens
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TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
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Sequence=2909;DNA;Homo sapiens
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GAGGGAGACACACACATTCAGATGAGCCTTCAGGGAATTGTATGAACTTTTGAACCAGAG
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TABLE 2

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AAANGGAAAATGAAACCANGGTGGNTGNTGGTGGTTTA
Sequence=2910;DNA;Homo sapiens
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CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAAT
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CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTAAATCTATATCTT
AAACATTTTAAAGTATTAGCATCACCTTTTAA
Sequence=2947;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATAAATTTAATCTATAATGATGTATTAGCA
ATCATAGGGAACACCATGATGGTCAGTGTTCAGACTTGATGAAGACTGAAGCATGAGAGA
GGGCCAGACAGATATTGTGGAGTCCGTGCAGCTTTCTACTAATTTCTATTTACCAATAAA
TATGCCTGGGATAATATAGGAGAATTATAGAAAGGAACAAGGAAACTAATCAAGGAGAAA

TABLE 2
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GTAGAGGGCGGTTTCCAATGAGAGAATTTCATCTGCTTCTAATCTAAAAAAAAAAGAC
Sequence=2948;DNA;Homo sapiens
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GCTAATCAGTTTCACTGAGGTAGAAGAGTTGGAAGGCATGGAAAAGTATAAAACTTTATT
TTGAATTAGTTGGATTTCCATGGTTATTTAAAAACTAGGCCCACCTATTTTCTAAGGCAC
TTTTCATTTGTAATATCACTGAAATTGAAATTCCTTCTGGTTTGTTAGAACTCTGATAGG
AAANGGCAGCCAGAAGAATAGGAAAATTTACCTTCA
Sequence=2949;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATGGGTTTATAGACATATATATATTCACA
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GATGTGAAGTTTAACCTCAGCATCAAAGTATATTCTAAAATATAAAACAACTATTTTTTA
TCATTCTACATTTTTTATTTACATCAACTGTATCACCCATTACATATTTGATAAAGAGGT
TATGCCTCAGTAATTCTGAAGCTGAAGGCTTAAAATCTCAGCCCAGTGACTCTGGAGAAT
CACGTGTTAGTTAAAGGGAAAGCGGCGGCCTCACATGCTGCGTAAGTTTCATTCTCAGGC
ATCCTTTCTGAGGGACCTACTTTTACTGGAGATCATTCTGCTAAATAAGGTAACATCTAG
CCTCAATGGCAGTCATGTTAGTTAACCCCCT
Sequence=2950;DNA;Homo sapiens
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CACTGAGCAACAATTCCCCATGTTTGTTACACTGGAAGTTGTTCTATCTACCTTATGCGC
CTGTCTTTAATTCCTGGCATCTCACAAGTCTGAAAGACAGTTATTATCATTTATACAGGA
AGAAACTAGGGCTCCTATAGGGGAAATGACTTGTTAATATCATAAGACTAGCAAAGCTTA
CTTACTCAATTCCTAATGCTCTTCAGAGCATATTATATCTGAACTCTATATTAAATTTGT
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GTNGGGTCATTTGNAA
Sequence=2951;DNA;Homo sapiens
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AGGGATAGGATATAGGATTTTTTCTGTCTCCAGTCCTGGAAGTGTAATTTATGATGGCAA
AGGATTCACAAGTGGAAGACAAAAATCTACATCAGGTATGTTTCTGCTTATTGGGTTTTG
CATCATGTCACTTTTTTCCTAAATGTAATAAAATGACATTTTGTGTAGATTTAATACAGTA
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AAATGTTACTAATGAGTGTAAGCAAGTTATTTTATACATATTCAAGTGTGTTCTGATATT
AGAAATATCTTATATTGATTCTGGTGATAATCAACCAATTGAAAAACA
Sequence=2952;DNA;Homo sapiens
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GTCCAAGCCACCGTAATTGCTGGCTATTGTAACAGCTGACATCTTGGGCTGGAGGTGTGG
TGAGGGTGGTTAACAGAATCCCAATACAAACTTCAGATCAATTAAATGAG
Sequence=2953;DNA;Homo sapiens
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GGGAGGAAACTCTAGGTGTAACAGCACAGGAGGAGACCAAGCTGGAGTTTTGGAGAGAGN
NATGGTTCAGGAGAGCAGGGCAAGATAGGTAATATAGAAAGTCAATGGCTGGAAACAAAG
GGGCAAAAGAGGAGCTAACCTTCCTGAATTCTCAACTATATATTAGCTTTTTTAATGGCC
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AGAATCCAGTCTGGGTTGCTTAAGCCAAAGAAGGATATCTGGCTCGGTGTTGTGGCTCAT
GCCTCTAATCCCAGCACTTTGG
Sequence=2954;DNA;Homo sapiens
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AATTCCCCTCTTTCTTGTCTCTCCAAATATTTTCAAGTCTCTTACAGAAAAAAATGTGCC
TTGTTTTTCTCCCAGATGCCTGTCTTTAGCACTTAGCATGGTGCTGAGGGTATGTGAAGT
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CCA

TABLE 2
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Sequence=2955;DNA;Homo sapiens
GTCAGCCCGCGGGAACGACCGAACCCCCTCAGAGCGGGAAGAGGGGCGCGGGACGGACGG
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TACCGAGACGCCGCGAGGACGACACGCTCCCAACACGAGGCCCACGCCGCGGACCATACC
GGGC
Sequence=2956;DNA;Homo sapiens
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TCCTCCTGGGTTCAAGTGATTCTTCTGCCTCAGCCTCCCAAGTAGCTGGGATCACAGGCG
GCCGCTACCACATGCGGCTAATTTTTGTATTTTTAGGAGAGACAGGGTTTTACTATATTG
GCCAGGCTGGTCTCAAACTCCTCAAACCCCAAGTGATCCTCCTGCCTCAGCCTCCCAAAG
TGCCAAGGATTAAGGCGTGCGTGAGCCACTGTGCCTGGCCTAGGATAAATTTATTAGTAT
CAGGAATCCTTATGCTTCTTTTGAATGATTATTTTCTCTTAATGTTAAAGTATAACTTTT
GGGTATACATTTCATATGTTAGCTCCATTCCAGGCTTCATTTTGTGTCTCAATTCCCAAT
CCTTAATTTTCGTTTTACTGAGGTCTTTTTTTTTTTTTAAGTT
Sequence=2957;DNA;Homo sapiens
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GAGGATTACCTTGATCACATTATTTAAGGTAGGAAGCCTGCCCACTATGAGTAGCATCAT
TCCCTAAGATGAAGATGAGATCTTGTATAAAAAGGAAAAAGGTGAGACATAAGAGAGAGT
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GTTGCTGTGAAAATTCTTTATGTACCT
Sequence=2958;DNA;Homo sapiens
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ATTTGGTAAAGGCCTCTTGTACTGATGGGAAACTTTTCAATCATCTGGAGACTGTTTGGC
GATTCAGCCCAGGTCTTCCTGGCTATCCAAGAACATGTACCTTGGATTTTTCAATTTCTT
TTGAATTCCGCTCCCTTCTGCACTCTCAGCTCGCTACACTGTTCTTTGATGAAGTTGTGA
AACAAATGGTAGCGGCCTTTGAAAGAAGAGCTTGTAAACTGTATGGTCCAGAGACAAACA
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ACCGTGTACATTTGCANGCTCTGCCTGCCTTTGTA
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TCACTGCAGCCTTGATCTCGTAGACTCAAGCAATCCTNCTACCTCAGCCTNCCAAGTAAC
TGGGACCACAGGTGCACACCACCATCCCCAGCTGATTTTT
Sequence=2960;DNA;Homo sapiens
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TTGCTGGGAATAGAACTTACGTCCTCTGGAAGAGCAAGAAGCCAGTGCTCTTAACCATTG
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ACCTCTCTCGATATCTAGGAATTGTCTGCAGTGTGCGGTGGCACAGTAACAACCATTTGT
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TABLE 2

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TTCTTCATATGTTTGTCCTTAGATTTGACCAAAAACAATAACTGATAATGTAATACAGAT
TCCCCAGCTCCCTGTGAGCTGGGTT
Sequence=2962;DNA;Homo sapiens
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TGGACAGGACATAATGTAAAACATAAAAGTGTAATTGTTACACTTACATATGATAGTGAA
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT
TGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTG
TGTCTACATACACATCATTAATACTATTGGNATTACTATTGGGGATAACAGCACCTCTGC
GTTTAGGGGNTNTATTGGATATATTGGATTTGGNNATATACCATTATT
Sequence=2963;DNA;Homo sapiens
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TCCAGATGGAGCTAAATTGCTATATGATACAGGGTTTATTTTATATTTCTCATATTAAAG
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Sequence=2964;DNA;Homo sapiens
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Sequence=2965;DNA;Homo sapiens
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Sequence=2966;DNA;Homo sapiens
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CAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACCAT
ATTCCCAGGACAAAAGCCCAGCCAGGCACCACCAATTACC
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Sequence=2968;DNA;Homo sapiens
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Sequence=2969;DNA;Homo sapiens

TABLE 2
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GATAACATATCTGGCTGAAACTTTCAATCCCTGACAGAGGGGATTTGGGATACAAATACT
TCGACTTTCTCACCCACTGGTGGGGATAACCCTGAGGAATGTTCTTCAGGGTTCCACAGG
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TCTTGGCTTTCTTTCATGCCTCTATTCTCAATTCCAGCTCTACTCCTGAGTTTCCTTGCT
CACTTTCCAGGAACAGTTTGAATTCAAATTCTTCTCTCAGGCTCTGCTTTTGAGGGAAAT
CAGTCTAAGACAATC

Sequence=2970;DNA;Homo sapiens
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GCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGAC
ACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAGC
AAAAAGCACGCCAATAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAATC
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CACTGCTTGGAGCAGAGTCTAATTTCCCGAAGATTAATAATATTAAAGAAAGTTAAATGA
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Sequence=2972;DNA;Homo sapiens
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GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT
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Sequence=2973;DNA;Homo sapiens
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TGGTGTACC

Sequence=2974;DNA;Homo sapiens
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Sequence=2975;DNA;Homo sapiens
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TABLE 2
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GGTAGATGATGGAGGTGATTGGAAGCAAATTGTTATGTTTTTAAGGTATCAAGGTGTAGA
GTTTATGTCATTTTTAA
Sequence=2976;DNA;Homo sapiens
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CAGCAGGAAACTTAGCCTAATAAAGTCATTCCATTCATAACTGGAACTCTAATTCTAAAA
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TTATTTAAATAAATGATGATTGATCCACTGTAAGTCAGGAATTGCTGCCAACATTAAGGG
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Sequence=2980;DNA;Homo sapiens
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Sequence=2981;DNA;Homo sapiens
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Sequence=2982;DNA;Homo sapiens
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TABLE 2
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TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTT
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TGTCTACATACACATCATTA
Sequence=2983;DNA;Homo sapiens
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Sequence=2985;DNA;Homo sapiens
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Sequence=2987;DNA;Homo sapiens
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Sequence=2988;DNA;Homo sapiens
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Sequence=2989;DNA;Homo sapiens
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TABLE 2

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Sequence=2991;DNA;Homo sapiens

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Sequence=2992;DNA;Homo sapiens

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Sequence=2996;DNA;Homo sapiens

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TABLE 2

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Sequence=2997;DNA;Homo sapiens
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Sequence=2999;DNA;Homo sapiens
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TABLE 2

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Sequence=3023;DNA;Homo sapiens
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ATAACTTAAGTTCATTGAATACAATTAGAGTCAAATTAATGAAGCTTAGAGATCTAGTGT
TATTTAAACTACTAGTAGTGGGCCAAGTGTTGCCATTAACATTTTTTTAATGATGAAATA
GAATAGTAAAAATATGTTTATTTTACCTAATAGGTTCATTCCAGCTTTAAAAAAAGTGTT
GTTTCATGAAGCTTTTGTGT

Sequence=3024;DNA;Homo sapiens
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AGTCTGAGGGACTGCTGCTGTTCCCTGATTGGCAGGTGAGGGCAGGTTGGGAGGTCTGAG
GAAGACCCATGCCAGATACCTGAGAACCACCTTTGTGTCCAGTGAACAGATAGGCTAGAC
CCAAGAAGAAATGCCATCCCAGAGAGCTGGCTTATCTGAAAGTTGTAGTTGTTTTTCCTT
TAATAAAGAAGTGGGTGGCCCAAATATCTTTGATCTGCTTGCCTTCTCTTCCCCACCTGC
CAGTGTGAAAGGTTCTTAACTTGGTGGCCCCGTGTAAAATGGGTTTTTACAGCTTGTGTT
CCGTAACTGAAGGGCTTTTGATGAAACTGTTTTNGGTGAAAAGGCT

Sequence=3025;DNA;Homo sapiens
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GTATGGTCTCAGTAATGACATGCAGTATGGGGACTTTGGACTCCTGTTTGAACAAACCAG
CTTTGAGATGATAAAAATTTGAATATGAATTGAGTTCTTGAAGATAAGAAATTGTTAATT
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Sequence=3026;DNA;Homo sapiens
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TTTTGCAAAATGTTTTTGTTATAATAAAGGTAACAGAGGCCAGGCATGGTGGCTCACGCC
TATAATCTCAACACTTTGGGAGGCTTAGGCGGGTGGATTACCTGAGATGGTTTCAAGACC
AGCCTGGTTAACATGGCCNAAACCACGTCTGCTAAAAATACAAAAATTAGCTGGGCGTGG
TGGCAGGTGCCTGTAAGTCCCANCTACTTGGAAGGCTGAGGCAGGAGAATTGCTTGGACC
TGGGA

Sequence=3027;DNA;Homo sapiens
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TGCCTCCCGTCTTTTGTTTCAAGTAATCCCTTGAGTAGAGCTGCATGTAAGTTTCAAGAA
CATGCCTTTCCTTGGTGGGGANGGAATCCTGTATTCAACAATATTCCAGAGTATTAACTA
AGTGGGATCACATTCATGAAGTGGGTCTACCTTCGTTTGCTCCTTCTGNGGTAATTTATC
CTCAACACAATCTNCTNTANGCTNAAAGGGGTAAAAGTGTGNCCAAGAAACCCCTTCACC
ANACCACACATACAGTGATGCTGGTCCCACTGAAAACCTTTTTTGGTTCCGTTCCNACCT
TACCCAATNTTGNCTACCAATTGGCTAATTTGAANCAATCGGATTTTCCTTGGGAAACTG
GGATT

Sequence=3028;DNA;Homo sapiens
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AGGATCTTGTTCTGTCGCCCAGCGTGGAGTAGCATAATCATAGCTCACTGCAGCCTTGAA
CTCCTATGCTCAAGTGATCCTCCTGCCTCAGCATCCCAAAATGCTGGGATTACAAGCGTG
CNCCACTATGCCTGGCTAATTTATTTTATTTCATTTTTTGTANANATTGAGTCTCGTTTT
GTTGCCCCGGCTGATCACAGTTACTTTTGAGTATATATAANCAGNGGCTATCAGGAACAC
AAGAGGCCCAGTTACTTCCATTTCTTGAGATTTTCTGTATATTAAAAAATTTAAAAGGGG
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CGGCCCGTTTAAAAAGG

Sequence=3029;DNA;Homo sapiens

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CTGTTTGAAGATTGCCTGGTCATAAAAGGGAGTCAGAGGTCTGACTTCTCTATTTCCATC
CCTTAGGGGACTCTTTAACAACAAAAAGAATGTATTACAAGTATGTCAAGCTGATAACGC
AAGGCTTTTCCTCCTGGAAGATTGGTGTAGGTGA

Sequence=3030;DNA;Homo sapiens
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TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTGCACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGNGGATAACAGCAGCCTCT
GCGTTTAGGGGTTTTATTGNATATATTGGATTTGGTTATATACCATTATTTT

Sequence=3031;DNA;Homo sapiens
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TTGTATACTGCAGTGTCGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGT
GCAATTGTTACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTT
AAAATACCAAAAACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATA
CTGCATCCACAACATTACTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCT
GCCTATTAATACGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGG
TATTACTATTGTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGNATATATTGNAT
TTGNTTATATACCATTATTTTTAATACATACACATGCACGCTTTTTAATTACA

Sequence=3032;DNA;Homo sapiens
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AAAGGATCAGTTAGTTTTACAAAGGACAATCGTATTCTCTGTCACATCCTTTTTGGCCAT
GCCTCAAAAGCAGTCCCACAATGTAAGCTACTGCTCATAGGCTCAATGCAGTCCACCTTC
AAAGCAAGAGAAATAATTTCATGAGTAACTCCAACTGCCGCCTTGTTATAGGGAAGGCAT
CATGTTGGAG

Sequence=3033;DNA;Homo sapiens
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TCCTTGCTCTTGTTTTTTTCTTCCCCTGTGCTNGGCCTGNTAGCGGACTCNTCTGATAAAA
TGCCTAACNATCAAGGTAAAT

Sequence=3034;DNA;Homo sapiens
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TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGCGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCCTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT
GTGTCTACATACACATCATTAATACT

Sequence=3035;DNA;Homo sapiens
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TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGCGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCCTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT
GTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGGATAACAGCAGCCTC
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Sequence=3036;DNA;Homo sapiens
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TTTATTTTACAGTTTTGTATCTTATCTTAATGAACTGGCCATACTTTAGAACAAAGTTGA
ATATTAGGTTCTTCATTTCAAAT
Sequence=3037;DNA;Homo sapiens
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TCAGGCCAATGCCCAGTAAGGACTGGTAACAAATTTCTGTAAGTCCTCCAGCTGCCCCAG
GGAGTCAGCTGTGCCATCAGGTCCCATGGCCTTGCTCAGGANACCAGAGTGAACATGACA
AAAGGAGAGCCACTTCTCCTTCAACCTCTGTTCACTGCTAAGTTACCTTGCTTCTGGAGG
GAAAAACAAAATCCTTCCTCAAGCTTGTCAGCCACCTCCCCTGAGGCCTTCCGTGCNTCT
TTTAGATTCTCGTACCGCCGGGGATGAACAAGCAAAGGAA
Sequence=3038;DNA;Homo sapiens
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ATTGNTCCTTCTCTCTACCCTTTAACACATCCTTTCCCATTTCCACCTCTTAATACTCCA
TTACCAGTATTTTCTAAGGTTCCACATTTAAACTCCATTCTCTGTCTCTGTATTTCTCTC
TGCCTCTGGCTCTGTCTCTTATCTTCATACTTTGCACCCCACCCTGCTGGCAATCTCATT
CTACCCCAGGAATTTAACTCTATCCTGTCTTTGTTATGTCTAAAAGAAGAGCCACANGGG
AGAGGGGCCAGAATATTTTCTTCATTTCTTTACAAAGNGATTTTTCCTNAAGGGGANAAT
CTGGCCTTTTTTTT
Sequence=3039;DNA;Homo sapiens
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TGAAGATTCTCACAAGTAATTGATAGAATGAGATTTATTTGACAAATAACAAAACCATCT
GCCAAATCCATGATTAAATGGCAGGGACTCTGGGTCTCTTGTGCTTAGTGAGGGAAGGAA
GGAGGTGGTATGTTTTCAGTGAAACACTCACTGAATGGAACTCCAGGCTGGAGGGAGAGT
GAAGAGGGAAGAGAATACAGTCCTTGCTATTTTCCTCAGCTGATTCATAATACATTAACA
CCCTCATTTACATGGCCTATTAGAAGTTATTTATATTTCCAATTACAGGCTATTTGAATA
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CTGGTT
Sequence=3040;DNA;Homo sapiens
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ATGCCTGTAATCCC
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TGCGTTTAGGTGTTTTATTGTATATATTGGATTTGTTTATATACCATTATTTTT
Sequence=3042;DNA;Homo sapiens
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AGAACATCAAAGAGGAGCAATTATTTCAGTCATTAGGGCAGTTCCACCTGTTCTAATTGA

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ACATTTTTAGGATGTAGAAGATGCATCATACATTGGTATCTATTCAGAAGGTGGGGACAT
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AAGTAACAGTAAATGCTTATACAACATGTTAAGTAATATTTACTTCAATCTTAGAAATGA
AATGATAATTTTACATTCTAGCAGATGTATTTCTTGATACCTGTTCTGAGAGGACAGAAA
CAAGGCTCAAAATTCATGCAAGAGGCTAATAACAACTTANTTGATAGTAAAATATGGAGC
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Sequence=3044;DNA;Homo sapiens

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CCTGACCAACATGCTGAAACCCCATCTCTACTAAAAATACAAAAAATTAGCCAGATGTGG
TGGCACGTGCCTGTAATCCCAACTACCCAGGAGGCTGAGGCAGGAAAATCNCTGGAAGCC
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Sequence=3045;DNA;Homo sapiens

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TGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTG
TGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTG
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CACATGCACGCTTTTTAATTACATAATGTATA

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ACATGCGCCTAGAATGTGCTATTTATTACAAGGCCAGAGAAATGGGATTTAAACATATTA
ACCACCAGGTGGTGCCAACGCTGGCTGTACCAAAGAATAAAGCATTACAAGCAATTGAAC
TGCAACTAACGTTAGAAACAATATATAACTCACAATATAGTAATGAAAAGTGGACATTAC
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ATACAGTGGAAGTGCAGTTTGATGGAGACATATGCAATACAATGCATTATACAAACTGGA
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ATGGGTTATATTATGTT

Sequence=3047;DNA;Homo sapiens

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ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGT

Sequence=3048;DNA;Homo sapiens

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CACATGCACGCTTTTTAATTACATAATGTATATGT
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Sequence=3050;DNA;Homo sapiens
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Sequence=3051;DNA;Homo sapiens
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GAGACCATCCTGGTCAGTGTGGTGAAATCCCGTCTCTACTAAAAAT
Sequence=3052;DNA;Homo sapiens
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AGCTAACATTTATTAAGCACTTA
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TCAAACATTAGGGTGCACTGTAACCATTACAGAGCTTGTGAAAAGTGCAGAAACCTGAGC
CTCACCTTATGAGATTCTTGATTCATCCAGGGGGAGGA
Sequence=3054;DNA;Homo sapiens
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TATGTGTAGAGGTTATTGCTTTTCTCTGCTTAGTGTGTCTTGGAAAAAAGTTCTTTACAG
GTAAATAATTTTAAATACCAATACCCTTAGTATGGATCAGCAAATTAGGGGCTCTGAGAA
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TATGTATTGTTACATACCTTCAGCTTGGCAAGGCNGACTAATAAAGGAGGTTCCAANACT
TCCCTTGGTTTAATGAAGAACATTCAA
Sequence=3055;DNA;Homo sapiens
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TGCCCTTCACATTCTAAACAACTGATTTTCATTAGTGATTCTCATGAACAAAAAACTTCA
CCTCTTCACCTATCATGAATACTCAACTTATAAGGCCAGGTGCTGTATAAATCCCCGCCC
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CCTTAAAAATATGCA
Sequence=3056;DNA;Homo sapiens

TABLE 2

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CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGGCAACAGAGCCAGACTCCATCTCAAA
AAAAAAAAGAAAGAAAGAAAGAAATGAAAGTGGTCTTGTGTGGAGTCTCTGCCCTCTAAC
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TTAGGCACTATTATCATCAATCCCATTTTGGAGATTGGGAAAATGAGATAAGGAACCTGA
CTGAGGTCACACAGTTATCAAATGACAAAAGCGAAATTTAAAAGCAGATACCAGCAGGGC
TTGATGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCAAGGCGGGAGGA

Sequence=3057;DNA;Homo sapiens

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AAAGAACAAAAACTTGGAATTTCCCTCCCTCTCCATGCAGCTTTGAAGAGTCTTTAATCC
AAGGGAAACCTACAGTTCTTTCTCTGCCGTAGGTTCTCTTCTCCTCTCTTCCACTTCCTC
CAGCTCCTGTTTGTCTCTTCCTCCCTGTGTGTCTTACTACCTTGTTTTGGGGGTTTGTTT
TCTCTCCTGATTTTTACCTCTTTCAGTCCTCAAAATGGTCTGAATAAACTGGAGATTAAT
TTATTTTTGAAAGAAGTGTTTGTATCTACTAAGTGAGGTTATGGAAGAGATCCAAAAATG
TTCTGGGTGGCAGGAGAAGACATTTAAAATACACAGTTAATAAGCCACATTTAGATAATC
TATAATTGACTGTAGTTTATTCAGAAATGTCTTTTGTTAAATAAAGCTTCTAAGTGAAGT
CTCAAAGCCACAGAATTAAGAAAGGCTGTTTGTTTAATCAATGTGATTACTGCTCATATT
TTTAAAAGGAAAAAAAAGCCNNNNAAAAGGAAAA

Sequence=3058;DNA;Homo sapiens

CCCTTTCGNGGCCGCCCGGGCAGGTCCTTAGGCATGGTCAGTAAGATCTGGCCAATGACA
TGTAAGCAGAAATGATACATACTAATGATATCCTGAATAAGAATGGGGTGTGACCCACTA
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TATTAAACCATGAAATAGAAAATACATGTTAAATATGGCAGAGCACTAAGATGGAAGAAA
TTTGGGTCACTTGCATGATGATGTGTGTGCCTATTACTAAATCTGCTTTGTTATCTGAGA
GAAATCCAGTCTCCTCATTAAACTAAATAACATTCACTATGACAGCATTGTTAATCTATG
AGGTGCCCCAGAATCCCTTATAGATTACCTGCTAAACCTGTC

Sequence=3059;DNA;Homo sapiens

GGACACATGAAACTATTACTAGTTTCGTATCAAAATAAAACTAGTTAATATTCCGTCAGG
CCAATCGCTAACATAATATACTCCAATAAAAATTTATTGACATATATCCACTACCAAAAA
AAA

Sequence=3060;DNA;Homo sapiens

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AGAAATCAGTCACTTCAGCTCCACAGGCAGATGTTGCTACTGGACTGACAAGTGGAACCT
ACTCCTGCTGGAGAAAGGTAAAGTTTGCCATTGGGGCAGACGCAGAGTTCATACACTGTC
TGTCGAGAACTTGAG

Sequence=3061;DNA;Homo sapiens

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CAGTTTTTGTTTTTGGGAGTTTTGTTTTGTTATAGTGGCAGCTGAAGTGATTTTGAGTGT
TTGCAGCATGATGTTAATTAACCAAATGTTTCAACCTGGAACTTTGAACACCTGGGCTTA
CATAAATTGCTCAGAATCAGTGTGGAAATCTTCGGAACAGTGGATGTAGAAGATTTGGGG
TAAAACAGGCACTAGATGGTGAGGGGTTTTATGCTCTACTCATTCTTTACGCAAAATAAA
AACAGACGAGTAAGTGTTGGCCTCTTTGGAACAGATGATTCCCAGCAGCAGTTGGCATGC
TTTATGTACCTGCCCGGGCGG

Sequence=3062;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGTTGAGAGAAAATTGTTGAGAAGCTTCAA
AACCTGCTTTGCATTTTTATTTTATGGGCTTCCCTAAACCCAGTAGATCGAGTGCCAATT
AGGAATGCCTCGAACATCTATAAGCCTTGTAGGCTTATACTTGCCTTATATAGGCTTTGT
AGACTATCACAGTAGTAGATCATCTATTGTTCATTAAATCTGCTGCTTTTAGAATTCCCA
GCATCAGAATTCTGTGCTTTAAAAGCTGATACCACATTTTTGGAACATTCTAAGACTGTG
GGTCAGTGACCTCCTATTTGTTTTGATCCCCGCCCCGCCTTTTATGGAATCTGATTTGGA
TTTCATAATTCCTATACTCCCATATAACATCTATGTCGTGAAAGATTTATAAG

Sequence=3063;DNA;Homo sapiens

TABLE 2

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CCCTTACGTGGTCGCGGCCGAGGTCTTAACATTTTGGGGCTAGANCTAATATATTTACTA
GTGGACACAGGAAGAAGCAGACGCCAAGGCATATGGTCAGGAAGGGAGTTAACAGGCCAC
CACCAAAGAGGAAGAATGCGGCAGCTGAATCACCTGAGGGTAGATGAAAAGAGGATAAAA
TGGCACCGACAGATCCAAAGGCCTTAAGAACCTCAAAAAACCTCAGTAATAAGGAAATGT
GTTTGGAAATACTGATATTGTTACCTTCATTTGGGAAGTGTTCACGTGTGAATAGGGAAG
AAAATAAGGGAACCACCTGTGAATTACCTTANGCTTTCACCAGATGAGTATGAGTAAAAT
GTGTGAAGTGAAATTCANGTTAACCCTTCAAGTCACATAGGCAGGAAACCNAAAAAAAAA
AAAAA

Sequence=3064;DNA;Homo sapiens

GGCCGCCCGGGCAGGTACAGATGTCTTTGAGGGCAGCTCTCAGGTAGAATTGCTTCTTTT
TGTAAAACTGTTAACAGTTTTAGATTAAAAATTTAAGGGGAGTAGATTCTGTCTGCACTC
AGAAAGGCAAAGTCACATGCCTCAACTTTTGACTAAAGCACAGCAACTCACTGTAAAGCA
ACCACAGAACAAAAACTTACAAACATGACACTGGCAAATAAAAAGCTGTCATGATTTTGA
TGAATGTTAATCCCGCGTACCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNCTGGAATTTAAATATNTTNNATTTTNAACTNANNAAAGGCNTTTGGCNNAAACCAT
GTTTGGAAAANAA

Sequence=3065;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCAAATACAACTCAGGCACTTCAGATGGCT
TTGTAAACTGGGTCAATGCTATTCCATCTGAAAGGAAATTACAGAATTATTTTCAATTCA
ATTATACATCCCTGCAAAATAATTTGAGGGCAGCTTTGAATGCTGTAAGTGAGTTGTGAT
GCCATCTATATTAATCCTAAAACTTATCTTCAAATTGATTCCCAAAGTCCAACACACTTT
TTATTTAATAAATATTTACAGGCCAGGCACGGTGGCTCAAGCCTGCAATCCCAGCACTTT
GGGAGGCCAAGGCAGGCCGGATTACAAGATCAGGAGATTGAGAACATCCTGACCAACATG
GTGAAACCCCGCCTCTACTTANAATACAAAAATTAGCCAGGC

Sequence=3066;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTCTCTATTTCTAAGTCTTGATTTCCTCATTT
ATAAAACAAAGCATCTAAATGATATCAAATACCCTTGTTTTGAAAATCAAAGAATAAGCA
CGGCACCCAAGACAACTTTTTGTATCACAGGCACACATGAATGCTTTTTTCCTTTTCCTT
TTCTTATCATAAAAACCTATATTTTATGACTTTTACATTTATTCCTAGATGCTCTCATAT
GCATTATCTCATTTTTACAATAACANTATAAATATAAACACTGTGTATGCTATTGTACAG
ATGAGAGACTTGAAGCACAGAAGGCTAAAACTACCTTTAACTTCTAAAGAAATTTTNTGA
GAAGCCATCTGAGNACTCTTGACAGGGTAAAATCCCTATCATTTNNGAAAAGTGCAACTG
GGGGANCACATGTNTTTTAAAT

Sequence=3067;DNA;Homo sapiens

CCCTTAGCGGCCGCCCGGGCAGGTACGCGGGTCGCTACCGTCGGCTTGATTTATTTCAAG
AGCATATGTTTGAAGTATTGGAACGAGCAAGAAGGATGAATCGGACAGATTCAGAAATAT
ATGAAGATGCAGTAGAACTTCAGCAGTTTTTTATTAAAATTCGTGATGAACTCTGCAAAA
ATGGAGAGATTCTTCTTTCACCGGCACTCAGCTATACCACAAAACATTTGCATAATGATG
TGGAGAAAGAGAGAAAGGAAAAATTGCCAAAAGAAATAGAGGAAGATAAACTAAAACGAG
AAGAAGAAAAAAAAAAAAAA

Sequence=3068;DNA;Homo sapiens

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ATGAAAATTATCAAATTGTATTCATCATTATTAACATGTCCTGGGGAAGGAAGGGAAACT
TTCTAGGACAGAAGTCACTTTCAGATGTCATGTATGTATTGGGTGTTCAATCATATCTAA
CACTGTTTTGATTTTTGTGGGAAAATATTCCAGGAAACGCTAATTCTCTTTAGACTCCTT
GTTCTTTTATGACTACAATGAACATATGTCTATGTGATAGCTAAAGATATTTTTGAATTG
TATGTGTGCTTAATTATCGGTAAGTATAAATATTTGAGAAAACACATGGTCTGGATATTT
AAAACCCTCATAAACATGTTGGTACCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNCGGGGNNNNNNNNNNAAATNTTTTNCCCCAAAAANCAAAAANCAGGGTTA
GATNTGAATTGGAACNCCCCATANNNTACCATNACATNTGNAAANNGACTTNTGTCCTNA
AAAAGGTTTNCCNTTCCTTCCCNAGGNCNTTGTTAATAATGATGAAATNCNATTTGGTAA
TTTNCATACCNTTCNAATAAAAAAACT

Sequence=3069;DNA;Homo sapiens

TABLE 2

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GGTACTTAAAAAATTTTTAATGTAAAATACCCCTTTAAGGATAGAATTTAGGGCCTTGAA
ATTCTACTCAGTTGCTCTGAACTGTGGGGAATTTGAGACAAATAGCTTTTGTAATTGGAA
TGCACACTGTGTTGTAATAATGTGGAAAGAGAAACAAAAACTTTCCTTAATGTAATGAGT
TTCCATTATCTGCCTAATCTAAGGTTTGTAAGTCTACATTGTCAGGATTTATATTGAGGA
GATAGGGGGTGTCATTTTCTGTACAAGATAAGTTTTAAGTATGTTCTAAATATTTGTCTG
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TTAAGGAAA

Sequence=3070;DNA;Homo sapiens
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ACATGTGGCTTAAGTGATTTAAAATAGTGAAATGCTTGTTGATTACAAAAATACATGTAA
CACATGTAAGCTGTAAGAAATAAAATATATATCTCTCACTTCACCGCTCAATTTAAAAAA
CTAGAACTGTAGTAGTATTATTGAAGCTACCTGAATTTCCTAATTCCATCTCCACTGCCC
TGGCTCTCCAACTGAGAGATCTTGATTTTTTTCATTTATTGTTCCC

Sequence=3071;DNA;Homo sapiens
GACTCCATCTCAAAAAATAAATAAATGAATAAGATTCATATGGCACCTAGTTAATTTCAT
TTACTCAATACTTTTCAGAAATTGAAGAAGCTCTTTTTCACCANCTACTAAACAAAAGCA
ATTTATTCAACTAGGTTTTCTTTGCATGAGTTGTTCTGTATGTAACAAGAAAGCAAGAAA
ATAAATATTTTTAAATGTCACACTTCCCTGCAAAAATAATCACAATAATAATAATAATAA
TAATGAATAAGAGTTTATAGGCTAGGTATAGTGGCTCACACCTGTAATCCTANCATTTTG
AGAGGCTAAGGCGGGTGGATCACTTGAGGTCAGGAGCTCAAGACCAGCCTGGCCAACATG
GTGAAACCCCATCTGTACAAATACAAAATATTACTCTAAAAAA

Sequence=3072;DNA;Homo sapiens
CCGCCCGGGCAGGNACCCTACAGAGCTTTGTAAGTTCCTTCCTTATATAGTATATAAAAG
GTCATATAGCTATATCTGCAGAGGACAATAATGAAATATCTGGTATTAGTGAGCTCTTAT
TATATGCCANGNCCTTTGCTAACTGCTTTCCAGTGATATCTTATACCAACCCTATGGAAT
AAGCACTATTATCCTGCTTTGCANAGTAGGAATTGAGGCTTAGAGCAGTTGAGTAACTTT
NCTGAGGGCACACAGCTCTACATATAGTGGAATAAGTCACATTCCAGAATGTTCCTTTTA
CCTGCACAGGGTAACTCTGTCAGAATTTATAAAACCAATAAATAACAGCAGTAACAAAAA
CCTAATAGCTTCCCATGTACTTGAGGNTAAGGGAGCATATTTTATTTTTCCTTATATGNG
GGTTTCTCTGACTCAATTTGGCTGTT

Sequence=3073;DNA;Homo sapiens
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TCTTCTTTGGTCCTCACCCTCTTTGTTGTCCTCTTTTGAAGACTAGTTATTCTGTTGGAT
GTCTTGATTTATAATTAATAAAGAGCTACTAGTCCAGTATTTTCATTAATAAATTAATAT
CATAAGTGAATGGAATTCTTCAGGACCTTAGAAGAAGTTATGAATATAACCTTTCCTTGA
GAAGTAATTTTCATGTAAGAGGGAAGATAGATTTATCTTTATGTAGGTTTTAAAATACTT
TCTCAGTTGCAAGCCTTAATGTATGATATAGAAGATTAGTCTTTTACTTATGANCTGGAC
AAAAAACCCTGATGCCTTTGGAA

Sequence=3074;DNA;Homo sapiens
CCCTTTCNAGCGGCCGCCCGGGCANGTNCTACTTATANATCTCCAGCTTACATAACTCAA
ATTTAGTTTGCTTTCTGCGGCATTAACATTTGACTCATTGAATGGCTTATAGTANANATG
AAGGTTATTATAATGTANAAAGCNNATTAAACTGNATTTTAATTTATAAAATCAAGGTGT
TAGAAGAGGTGATTATGGAGGTCTTTTCTGGCCTAATTTTGTGACTGCTGTTGAATTCCA
TGTTACTTGAAAAGAGTATTTCAATAGCNNATNAACAATAGGCATCATACTTTTCATTCT
GAAGCCATTGAAGGTTTACTGCANAAAAATTATTCTCTAAGCACATGACTGTTATCCAAT
ATCTTAACAAAAAAGGAGGAGATCATTTTCTGGGTTATTTTTTCCTCAGACTTACTATGC
CACTGAGGTANCATACTAAATTGTCAATGACACTTTT

Sequence=3075;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACAGATGGGGTTTCACTGTGTTAGCCAGGATGGTC
TTGATCTCCTGACCTCGTGATCTGCCCGCCTCGGTCTCCCAAAGTGCTGCGATTACAGGC
GTGAGCCACTGTGCCCAGGCCTATTGGGGGTTATGCAGGTTCCTTTGCTTGGCCATGGTA
GATGGCTAAGTCTTTGCTTCCAAGTTCTTTTGACCATGAGACATGTAGAGCCAGGGAGGA
AAGAGAAAACCCAAACCAGGTCACTGTTACCTGTGAATAACATCTTGATCGAGTTCTGAN

TABLE 2

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AAGAAGAGTGCCCGCGTACCTGCCCGGGCGGCCCGCTCGAAAGGG
Sequence=3076;DNA;Homo sapiens
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TTATTTTTAGAGAAATTTTTCATTGGAACAGAAAATGGTGGTTGTGATGCAGTCATGGCT
CTGTGACTTAGCAAACTGATAAAAAGATAAAAGTATGAAGCAAAGACAAACAGGGTGGAG
GTCGGTGTTCTCCCGCCTACCCTTTCTATGTGGTGCTCATCATCAGTCCCCCTGTGTTGA
TTCTGATAGAGAACTATAAAATGAAACCTATGGGGAATTTGTCATTCTGAAATGAAAGCT
AATGTAAT
Sequence=3077;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTTTGACT
CAGGGTCTTACTCTGTCACCCAGGCTGGAGTGCAGTGGTGCAATCTCAGTTTAAACCCCC
AAGTCTGTGGTATTTTGTTATAGTCCCCCTGGAAATTAATACAGGATTCATGGTCTGCCA
AAGTCTCATTCCCTGCTCAGACCGACAATGGATAGTGGGATCCTTTGTGATATGTGCTCT
GTGAGTTAGAAGTAGTAACTTAGAGCTGTTGAGGACAATACCTTTGCACCCCATCCACTG
AATTTTGTTTTCAAAGATACA
Sequence=3078;DNA;Homo sapiens
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AAATGAAAATGTAAAAAGAACAAGGAGTTTCTCACTATTCTTTGTCCCCCTAAAAAGACC
ATCTTTTTAAAAAGATTAAGGAATTCATACAAAATAAGTAAGAATTAACAATTATAGGAA
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GTGGATTGCTTGGGCCTAAGAGTTCAAAGACTAACCCTGGTAACAGCGAGACCCTGTCTT
CTACAAAAAATAAAAAATACTANCTGGGCATGGTGGTGCACACCTATAGTCCCAGATANT
CAAAAAGGCTGAGGTGGGAGGGATTGCTTGAACCTGGGAGGCCCAAGGCTTCAGTGAACC
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AAAAAAAAAAAA
Sequence=3079;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACTTCGGTATTACAGCGCCACCCACTGGCTAGAAG
TCCTCATAGCACATATGAGATGTAGCCATAAAATAGATGAATTCTTGAAATAAGGAATAT
AACACTGACTATTCTGATTCAGTAGAACATAAAAAATGTCTAACAAAACAGAACCAGACA
CATTATATTATTTCTACAAGTAAACAGAATATCTATTAGATATGTTCACAAGGGTTTTAT
CAATTTTGAAATCCAAGTGTATAATCCCCAAATGCTGTAAGGACTTAAATTTTATAGCCA
AAACAATTA
Sequence=3080;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAGGATATATTAAGAAAAGTGTTTCCCTTCC
ACTCCAGACACCCTCCCCAAAGCAACCTATTAACAATGACTATTTGTCCAGTTTCTTTGC
ATAAGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
Sequence=3081;DNA;Homo sapiens
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GCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTGG
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTTG
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TCTACATACACATCATTAATA
Sequence=3082;DNA;Homo sapiens
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GAGCTCAAGTGATCTGCCTGCCTCANCCTCCTAAAGTGCTGGGATTGCAGGTATGAGCCG
CCGCCTCTACTTTATACTTTCTTGTTGAAGTGGACTGTATTGCTGATTCCCACCCACACT
CTCTTTTTGGATATCCGGCCCCTCCTCGAGTCTCTGGGAAGGGCAAGCACTATAAAATNG
AGGGACAACTAGGGAACTCCCACCCCCACTGCTAGGCAAGATCAGATTCTCTATCCTGCT
AACTGGAAATGATACANAGTGTTCGATAGAT
Sequence=3083;DNA;Homo sapiens

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CCCTTAGCGTGGTCGTGGCCGAGGTACTACGCAATTTTGGAGGCTCTATCATCGTACACA
TTGGAGACACACATAATAGTTTAGACAGCAATTTTTCAATTGTTTCTCTATTTTTTCCAC
ATTTATATCTTACTAATAGTAACACAACCATTCCCCATGAACATGCTAAACTTTGAATGT
GTAAATATAAACAATATTGTTGTAATAGTGTTTTTATACTGTCAGCTATACTGGGTGTAA
GTCCAAATGCAGCAATACACCAATCGCAACACGTTGATTTATTACTTTTAAATGGTCTTA
CTAATTCTGTAAAACTCACCCCGT

Sequence=3084;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGCTGATTGGAGCAATAGGAAGAGACCATT
TGGCAGTGATCGTGTGCAGTGTGACTGTGTGATAGAAACTGTGCACTTGTGATGCATCCC
AACTGCATAGTGGGCGGCACCCTGCAATCCTCGGACCCCGTCCTACTGCCCTTGGTAGGG
TGTGGGAAGTTACCCAGACAGAAACAGGAAAAGTATAGGAAGTTCCTTCCCAGGAACATA
GGCATTGGAGGACATAATTTCCCTCTTAGATCCCTGGATTGTGGTTCAGAAATGTCCACA
AGCAAAGGCTTAGAAATAATTTGTGGAAAGTGTGTTTCAGAGCTGACCCAGAAATAATCT
GGTTTGACAGANGCATGAGGGGCACACCTTTGAGAGTATACTTCTTACCTTATTTC

Sequence=3085;DNA;Homo sapiens

TCCGNTTAACTGGACGGTCCTGGGGCCATCANAGTAAGAGTGAAGGGAAGAGCTTTTTTT
TTTTTTTNTNTNNCGGNTGCCACTCTGACTGAAGAAGCTGACAGCAGGGGCAGAGGGGCT
CTGGGACACTGCTGTGTGGACTCTGGGTTAAGGGCGTGAAGAGGCTGGTGCTGTGGGATT
CGGCTCGATGAATGAAGCACTTTATGGACTGCGGGAATCAGTTACTGCCACACCCAATAA
ACTGGAAGTGTTTACAAAAAAAANANNCNNAAAAANNAA

Sequence=3086;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAANATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAGGTTAAAATACCAAAAACTATTACAGGGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT
GTGTCTACATACACATCATTAATACTATTGGNATTACTATT

Sequence=3087;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGGTGCTAATACTTTAAAATGTT
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCCGTCTACATGGCAT
TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT
TGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTG
TGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGTAGCCTCTG
CGTTTAGGTGTTTTATTGTATATATTGTATTTGTTTATATACCATTATTTTTAATACATA
CACATGCACGCTTTTTAATTACATAATGTATATGTACATAATGTAATTGNTACATATAAT
TGNCGTATACCATAACTTACTATTTTTTCTTTTTTATTTNTATATATAATNNTTTTTGGG
TTGGGTTGGTTGTT

Sequence=3088;DNA;Homo sapiens

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TGTTGATATGAGAGGAGCCTTTTGTGAGAAGGGAAGGTTGATAAACTAAATGAAGAGTTT
ACTCACACTAGAAATTGTTATTTGGAGGAGTTTTTGTAATCATATTTAAATACCATTCAA
AACCTAACAGTTTGGTTGAGTAGTTATAAAATGTATACTGTGGGAGTATCTGAAAGGGAT
ATCTAACACACAGTTGTTTATCTTTCTTCATTTCTGAGAGGTGTAAGGGTGTGATAAAAG
GAAGATCACTGTAGGTATGAATAAATNCCANNAAAAAAA

Sequence=3089;DNA;Homo sapiens

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TTGGACAGGACATAATGTAAAACGTAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
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TTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTC
TGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTC

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TGCGTTTAGGTGTTTTATTGTATATATTGTATTTGTTTATATACCATTATTTT
Sequence=3090;DNA;Homo sapiens
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CAACAACTTAGTGGTGTGGCAGGNNTTTCCGGTGTCTGGCTCTGAACTTG
Sequence=3091;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT
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GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT
GGCAACGTGGCCAATTTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG
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Sequence=3092;DNA;Homo sapiens
NGTACCTTCATGGTTAAGAACATGCATTTTTTGTCATTGCAATTTTATTCCCAAATCTAT
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TGTGGGTGATACCTGTTCCACAAGACAAATGTGGGCTCAAAGAGACATGCTCTCTGCCCT
TGTAAAGCTTGCAGGGAAGATAGGCAATTGAGTATTTGGTAGATAGGAAGTGTTCTGGGA
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ACCAAGACCTGA
Sequence=3093;DNA;Homo sapiens
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AGTTTATAACTGTGTTAAGATTAAGTCAAACTCCTTAGAAATGTTCAGAGAAATATTAGT
CTATATTTCTTATATTGCTCAAGTTCTATTTCTATAAGTGATAAATTATACAAAATCAGA
TATATGGCTCAGCCTGCAGAAGTTTAAGAAAAATGTTTAAACTAATTTTCATCTTTATTA
AGCTTTCCCTTAAGCAAAGATGA
Sequence=3094;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACCGTGCTATTAAATTATCAGTCCTGTTGAATGAT
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AATTCTTGGGAAAAAAGTGAGCAAATGTGTCTGTGTAATCACATTTAACAATTAAGTTAT
GTAAAATCTCATTACTAAAGCCATTAGCTAAATAAGCAAATTTGATTAGGAAATTTGGAT
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AATGCATAAATAAACCCTTAGGAAAAAATG
Sequence=3095;DNA;Homo sapiens
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CAACAACTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT
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GTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATCA
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Sequence=3096;DNA;Homo sapiens
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TCCTAAATCCTTCTCAATGCCCGTTTGCACTGGCCCTGAGGAAAGTGTGAAAATGAAGAC
TATTGTAAGAGGTCTTACATGAAGCTAAATTTGTTCATTTATATCACTTCTCTTTTATTA
TGACATTATGTCCTCTGCAGNTNNTTGGTATTAAAATGTCTTTTATGNAAAGGATANTAA
NAAGTAGATAGTACTCTTTTTTGTGGAAAAAAAAAAAAAAAAGTCCT
Sequence=3097;DNA;Homo sapiens
ACGCGGGCATTTGCCAGTCCCTGTGGACTTAGGCCAGATAGTATAAATAATAGTCACAAA
AGGAGTATGAATGGGATAAGAAGCCACTTCTAGTCTGAGACAATTAAGAGTAGTAGTGCC
TTCTCTGCACTCTCACCCCTCATTCTGACAGCTGAAGTGAAGGACTCCCAACTTCTGGAA
CTGCCCAATGAAAGTAGCCTTGTGTGAGTGTTAGCTGGCCTGCTTTGGTCTGGGATGCAA

TABLE 2

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GTAGAAATAAACTCCTGTCATATTAAGCCACTAAGACTTTAGGGATATGTTGCTGTAGCA
TAGCCTAATGTAGCCTGATTACTGAACGAGCCACCCCATCAACTGAATCTATGTGTATAC
TAAAAACATTTTAAGATACACAAGGTCTCAAAGAGTTCACTCGATGCACACTTTTTCTCA
AGAAGCTCTAGANGATGTGCTCCACAAAAAATAAAGGTATAAATTGTGAAAGAAGAAAAC
ATAGGATTTAGGAATCAAGGGG

Sequence=3098;DNA;Homo sapiens

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CATCTTTCTATCGGCAAGGCATTGGGTGGATGCAAAGTTAAAGAGCTAAACATGAAGGCC
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ATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGATGAAACCCCATCTCTAC
TTAAAATACAAAAATTAGCTGGGCATGGCGTTGAGCATCTGTAGTGACAGCTACTCG

Sequence=3099;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCAGCCTGGGCGGCAGAACAAGACCCTGTCTC
AGAAATAATAATAATAATAAATTTTGTTATAACAAGAAAGAGCAATCAATACAGAAAAAG
CAGGACAATTTAAATGTGGAAAAAACCAGAAAGATGAAAATATTAATGGGCCAAACTTGC
CAGTTAGAGGAGTGTGAGATTTGAGTTTAAAAGGAAAACAACTTCTAGGCCAGGCACAGT
GGTTCATGCCTATAATCCCAGTGCTTTGGGAGGTCAAAGCAGGAGGACCAGTTGAGGCTG
GGAATTCAAGAGCTACACAGGCAACATAGCAAGACCTTGTCCCAAAAAAAAAA

Sequence=3100;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGCGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCCTTGCTTTTGTGTGCTTTT

Sequence=3101;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATGATTCTACACTGAATCTGCATTTCACTCCCA
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TCTCAGGAGCAGTCAGTGGTTAATTGGGACAAGAAAACACAAGTCATTATCATTGAGAAA
TCTGAAGCAAATTGAGGCAGGTTGTCACCTTTCACCAGGAAACAAATTAGCCCTGTCTTT
AAAAAGACTTCTTTCTCTCTCTGCTGACTGGGGATTCCTGTCAACTGCCAATGAAATAGG
GAGAGTGTAGATTAATGGCACTGTAACAGTGGCCATGAAACAACCATAAAGCCGTTTTCT
AATTTTTATGAATATTTTTAATTGATTCGACCAGTGTGTTTGAATGACAAAATTTGTGCT
AAGCTTCAGCTCCGGAAAATCAGGGTGCCATCTTCCAGCTGAAATCAGTAGGTGCACCAG
TCTGTTTGGGGAAAGTTCTGTGTATAAAGAAAAAGCCATAAAATACCGACAAAGTANCTC
TTCCTNTTGGCTAATTTACCTT

Sequence=3102;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
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TTGCTTTGCTTTTGT

Sequence=3103;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCTTACAACTTGGAGGATAAGGACTACACAC
ATTCATCTACCCATACACACAGTGAAACACATGTGTNGCTTAAATAAAACAGACATTCTC
CAAGGATTTCTCCAATTATAATAATTGATTGGGCTTCAAAAACTCAAGGTTGAATTTCAG
CTTCTAACTTGATGAGAATGGCTGTCTTAATTCTGTCATTTTTTGTTAATTTTACTTCCA
GGAAGTCAGGGCTGTGATTTGAGGCTTTTTTCTCTAAGCTTCTGTGATGGAGATGAATTT
ATTAAAGTGGGGCCATAATGTCTTTTTGAGCAACATTAAAACTGAGTCATCAGAATTAGG
AAGTATCAAGAAGTCAAGATCAATTTTCAAGAACAGGAGCATAAAATTCGAACTCAATCT
GTGTTAACATTAAGAGATTTAGAA

Sequence=3104;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGAGGGCAAGAGAGGAGGTGTCTCCTTAAAAA
GGAAGACAGTAAGGTAACACAATTTATCTAAAGTCAAAAAACTTAAAACGGACCCGGATG

TABLE 2

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TCAAACCCAGGACTGCCCGAGCACAGGACCTGTATTTTTACTGCTCTGCCTGCCTGCTAG
GCAGCACCGACCCACCAAAACAAAGGATAGCAAGCACCAAATGGACAGTATTTTAAACAG
AAAAAAAATTGAAAACAGCTCACAAGTGTGTATAATAGGTATTCATAGCCATAATGTTTT
AATCAAACAAAAATAAGTTTATTTTCTTTGACTCAAATTATAATTATGTATTATGCGATT
AAGTATGTCAATATTTTACAGAGTTGTAGAAAGAAT

Sequence=3105;DNA;Homo sapiens

NCCCTTACCGTGGTCGCGGCCGAGGTACGCGGGGGTGGCTACAAGTAACTGTGGTGTGGA
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CAATGAGAGGCCAAAGATTACCCTTGGACATCCAGATTTTNTATTGTGCCAGGCCTGACN
AAGAGCCTTTTGTGAAGATCATCACTGTTGAAGAGGCAAAGCGCAGGAAGAGCACATGCA
GCTACTATGAAGACGAGGACGAANAGGTGCTGCCTGTCCTACGGCCCCACAGCGCGCTCC
TGGAGAATATGCACATCGAGCAGCTGGCCCGACGCC

Sequence=3106;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCACAAAAGCAAGTATCAATCAGTCTGCTATCAC
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ACGTATATAAGGATGGAAGCCTCAAATTTAAAGCCAAAGGATGCTGGCAAACTGACACCC
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CAGAATAGGGAACCCAGAAATAAGACCGCACACCTACAATCATCATCTTTGACAAACCTG
ACAAAAAAACAAGCAATGGGGAATAGATTCCCTGTTTAACAATGGTGCTGGGAGAACTGG
CTAGCCATATGTAGAAAACTGAAACTAGACCCCTTCCTTACATCTTATACAAAAATTAAC
TCAAGATGGATTAAAGACTTAAATGTAAAACCCCAAACTACGAAAAACTTAGAAGAAAAC
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GCAATGGCACAA

Sequence=3107;DNA;Homo sapiens

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ATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTG
AATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTA
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TTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTC
TGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTC
TGCGTTTAGGTGTTTTATTGGATATATTGGATTTGGTTATATACCATTATTTTTAATACA
TACACATGCNCGCTTTTTAATT

Sequence=3108;DNA;Homo sapiens

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AAGGCGGCGGGGGAAGATGGCGGTCCTGGGGTAGAGTTTGCAAGCTTTCTGACTAGGCTA
GTCGAGCAACTATTCGGGTCATGGCGTCAAACTCAACTAAGTCTTTCCTGGCAGATGCCG
GCTATGGCGAACAGGAACTGGATGCCAACTCTGCCCTTATGGAATTGGACAAAGGCCTAA
GATCTGGCAAACTTGGTGAACAGTGTGAAGCAGTTGTTCGCTTTCCCAGACTTTTTCAGA
AGTATCCATTCCCTATT

Sequence=3109;DNA;Homo sapiens

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CAGGCTTCACACTGCATGCTGATCTGCAAAGTGAGGACATACCAGTGACAACTTTGGAAT
CTGCATCCAGCCACAGGTAACAGATGTATTGCACCAGACTCAGATCTAGATTTTGTGATG
ACTATATAATGAACTAGAAGTTCAAATTAGAGAAAGAAACAATTCAAAATCAGAAGAAAG
GTAAAAGCAAGTGGCCACATGATCGCATTAAAAAAGAAAAAGGCAAATATCTCAATAAGT
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Sequence=3110;DNA;Homo sapiens

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TAACCTTAAATTTCACTTGGCTTACACGAATACAGTGGAAAGATTAAGAACTCTGGAGTG
CAATGAAAGTGGATTCAGGCCGGGCGCGGTGGTTCTTGCCTGTAATCCCAGTGCTTTGGG
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AGACCC

Sequence=3111;DNA;Homo sapiens

TABLE 2

468/3461

CCCTTANCGTGGTCGCGGCCGAGGTACGCGGGGAGTCATATTGGGGAGATAGTGTTAATT
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ATAATGGCTGTTGAAGTAAATAAATATAAAGAAAAGTTCTGCACTTCTTTTGTCCTGATC
AGTGCTTCTCTGGTAAATGTGCTAACCGCAATGATAGTTGAGATTTTAAGGGCTGGGTAA
AATAGCAAAAAACAATGAAAAGGAAACTTGTTTAACAAGTGTGATGACAGCTATGGATCT
GTGATTTAAAGGAAGAAATGTAAATCCCCTTTGAGTTGGATAT

Sequence=3112;DNA;Homo sapiens

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TGTTCTACTGATTGCATTGTCGAATGTCAGCATATATTTGGTTTTTTTGTTGT

Sequence=3113;DNA;Homo sapiens

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TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTT
TTGCTTTGCTTTTGT

Sequence=3114;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGAAGGAGTGTGTGAAGAAAACATTG
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CACTTTTTGATTAGCAGCCTTGGTCTTCTTCAGGACTAACCATTATAGGCAGAGTGTGCA
CAGGTTCCAGATAAAACTGCTCAAAGCAAATGGATTAAAAAAACTGTCCAAGAGAGTCTA
AGAACTTGTTTTATGAAGAGTCTTGGCTCTCCAATGGTGAGTCCCAGTCTGAATTTATTC
AAGACTGAAAGAAGTTGGAGCATGTCTGTGCAAGGGTATTTTTCA

Sequence=3115;DNA;Homo sapiens

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AAGGTTATTATAATGTAGAAAGCAAATTAAACTGGATTTTAATTTATAAAATCAAGGTGT
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GAAGCCATTGAAGGTTTACTGCAGAAAAATTATTCTCTAAGCACATGACTGTTATCCAAT
ATCTTAACAAAAAAGGAGGAGATCATTTTCTGGGTTATTTTTTCCTCAGACTTAGTATGC
CAGTGAGGTATCATACTAAATTGTCAATGACACTTTTAAA

Sequence=3116;DNA;Homo sapiens

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AAACACATTAGATCTCGCAGGGGAAATGGTAGAAAGTAAATATCTAGGAGAACAATAAAA
TGAAATGTAAATAATTACAGTGCCAAATTATACTTTCTACAAAATAATTATATTTCAAAA
ATATTTCCTACATTATTTGGCCATTGTCTCTGCACTTACAGTTTGATTGGTTTCTTTTGC
TTATGTGCAGTATTGAGATAAAGTCAAAGAAAAGTTGGAGGCCGGTCATGGTGGTTCGCA
TCTGTGGTCCCAGCTACTGTGGAGGCTGAGGCAGGAGGATTGCTCAAGCATAGGAGTTTG
AGGCTGCAGTGAGCCATGATTGTGCCAATGCACTCCAGCCTGGGCAACAGAGCAAGACCC
AGTCTCAAAAA

Sequence=3117;DNA;Homo sapiens

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GCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTGG
ATTTATGTCTATATTGACAAATCTTGATACTGCATCCACAACATTTATTGGCCGTGCTTT
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GTGTCTACATACACATCATTA

Sequence=3118;DNA;Homo sapiens

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TACCACTTACTTAAAGAACATAAGATTAAAGTGATAGATTTTAAAGCATAAAATAAAAAA
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TABLE 2

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GCCTCCAAAATTNTGGACTTGAATGGGAGNGACAGGGTTTTTCTTCTGGTAATGAGCATA
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ATT

Sequence=3119;DNA;Homo sapiens
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CTACAGGATTTCAATCCTGACCCTGCTTTTTACCAACCGCGTGACCCTGGGAGGTGTGTT
CAGCTTTGAGCTTCAGTTCCCTCCCCTGTGAAACAGGAGTAATAATTTCTACCTCATGGT
GTTGACATAGGGATTTAAAAAAATGAGATATGCAAGGTGCTTGCGCATAGGGGGGTGTGG
AGGGAAGGGCTCACTAAATGTTACTTCTTCCCCAGAGGCCACTCCAGTCTCACACTANAA
TTGGGGCCAGGAGGTAGGGAAACCAGGAGCAGAGCTTGTGGTTTGTCCCCAGAGTTTCAG
AGGGTCCTTGGGTAAGGGAGGAATCTCCTCCCT

Sequence=3120;DNA;Homo sapiens
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CGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGA
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAAT
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGC
CATTCACTATCATATGTAAGTGTAACAATTGCACTTTTATGTTTTACATTATGTCCTGTC
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTAAATCTATATCTT
AAACATTTTAAAGTATTAGCATCACCTTTTAAAT

Sequence=3121;DNA;Homo sapiens
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ATAAAATGCACGAATACCCATATATTAACCAGACTTTTTCTTAAATGGNCTCACTCTGTT
GCGTAAGCTGGAGTGCAGCAGTGTCATCATAGCTCACTGCAGCCTTGACCTTGCACCTCC
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Sequence=3122;DNA;Homo sapiens
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CAACAATTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT
AGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTCGCGGCGGTGTG
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GCCATGGTAGATT

Sequence=3123;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACTGAAATGGAGTTAATGAGCCTGAAACAGGGCCA
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ACCAATCACTGATACAAGTTTCTAGCAGGAGTCTGCTCACCAGTTAGACTCAAAGCAAGA
CTAGAGTTTTCTGAGCAATTAGGCTAAGGAGGAGGCAGGCCAGGGTGCTGGGGTGAGGGT
GGAGAGTAAGGAGAGTGCAGGGCATGTTCTGAGTCTCAATTATTGATTGCAAATCACTTA
GAGATCTTGTAATCAAAGATTGTTTTCTATATCATCAATACAGGCACATATCTAACAGTC
TGGTATTATTGCTGATGGTTTGTCTGGATTATTATAAGACTAGTCAAAATCTAACTCCAA
ACCCTTAAGATATACAATCTATTTCAGTTANGACTGCTGGTTAATGTTGTCTGGCATT

Sequence=3124;DNA;Homo sapiens
ATCTGCAGAATTCGCCCTTAGCCGTGGTCGCGGCCGAGGTACATTCATTAACATGGGAAA
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AGCATGAGCTTTATGGGGGATTTCATAAGAGGCCGTCCTCTCCAAAGTCCCCAAATAAAG

TABLE 2

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CATCTGGGGATGATTCTCCTCAAATTCTCCTCAAATGCAATGTTAACCTTTAAGAAAAAC
CANAAGAAACAAATTTAAAATACCAACA
Sequence=3125;DNA;Homo sapiens
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CAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGC
AACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTGGAT
TTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTTGCT
TTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTGTC
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CAATGCGCGCCACACCTGGCGACAAAGAAAAGATTCAGCTTTGCTTTGAAGCAACGCTAA
GTGAAGACCCGGATATCGCCTCACAAGCGGACGTTCGTTTTCATCTGGCGATTGCCGAAG
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CAGTGAAGCATAGCCGTCAGCGGATGTATCTGGTGCCACCGGTTTTTTCACAACTGACCG
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CAATGATGGCGCACCTTAGTTTTGTTCACACCACCATGAAACGATTCGATGAAGATCAGG
CTCGCCACGCACGGATTACCCGCCTGCCCGGTGAGCATAATGAGCATTCGAGGGAGAAAA
AACGCAT
Sequence=3127;DNA;Homo sapiens
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AGGAGTGATTTTTTTAATCAGTGTCCCTCAGTCAGCTAGTGCTATGCCAGCCTGACTTCT
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GGAAAGTACCT
Sequence=3128;DNA;Homo sapiens
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GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTT
GCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGT
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GCNAATTCCAGCACACTGGC
Sequence=3129;DNA;Homo sapiens
GGTACAAGAGTATGAAGGAGGCTTAGTGTCTGCGGATATGATACAAATCACACCTTCATT
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Sequence=3130;DNA;Homo sapiens

TABLE 2

471/3461

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TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCT
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GCGTTTAGGTGTTTTATTGGATATATTGGATTTGGTTATATACCATTATTTTTAATACAT
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Sequence=3131;DNA;Homo sapiens

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CTGAAAACAAGTGCTTTAGTGGCAGTAGAAAGAAATTTTAACAAGTAACAGATTAAATGT
ATAAGGCTTACAGCACAATGATTAAAAACAAAGGAATACAAACTAAATAGTCGTGAACAC
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TTTTTCAGTGTAGTCATAAAACAAAGCTAAGATACAAAAATAGTTGAAAGTCTTTGCAAC
AAAATCTCAATTACAGTATAACCAAATATTAAGCAGAAATTCTTGTACAATATTTCTGAA
ACACTTATGTCTGAAAT

Sequence=3132;DNA;Homo sapiens

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AAACACCATGATGAAGGAGAGAAGAGTGCTATTGTGGGGGCACAAATTATGGGGATCTGA
TCCTTTTTTTTTAAGGGAGGCATCAGGGAAAGTCTCTCTGAGGAAGTAAGGTTGATTCTCA
AAGGACAGATGGCAGAGACCCGGGTTAAGGGGTGGATTGGCACCAGGCTGAAGTCTGGTG
CTCACAAGAAACTAAGTGACAGCATAGGTTGGTATAGTGTGTAAGATCACCTTATTTTCT
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GGTCCCAGNAACATANTTATTTTCCC

Sequence=3133;DNA;Homo sapiens

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CTGCAAAACGACTGGGAAGGGCTGCCCCCATACACTCAACTCCTCCAGTTTCTCATGCAT
CCGTCCACCAAGTTTTACCAGACATTTACTATGTGCCAGGTTCTGCACTGGGCACAGGAG
CAGAGGGCCGGTGGAGACACAGTCCCTGCCCCCACAGAGCTCACAGATGGGGCAGGCAGA
AGCCACAGAGGCCGTGGTGGTCACGCTTCGGGAGAAAAGAACCACAAGTCAAAGGGGCAC
AAAAGGGGGCAACCAACTCTATCTGGGATGCTGGAAAGGATTCCTGGGGGATGGAGATGA
CTNAGTGGGAATAGCCCTGATTGGAAAGAAGAAAG

Sequence=3134;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACAAAATGGAACCTACATTAATCATCTAAAACGG
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TAACAAGGTCAGAAAAATCAGATTCTGTTTTCTTAATATTGAGGATCTTTCCCACTTTCC
CTGAGCTAATGAGACACAGGTCTGTGGCAAATACATTTAGTATTTTCCTACACATGAATT
CCTAACAAAACCAAGCAAGAGCATACAAAGGGAAACATACTTTAGCTAATTTAAAGGTGT
CTTATGTTATTTTGCTTATTGAAA

Sequence=3135;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTATTATTTTCATCCTCTCCATTTTTCAGATAAG
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ACCTAACCTCACTTTCCCTTGGGCTCCCTCCTATCCATCCTCCAGGATTCTTGGTCAGGG
TCAGCTGCCCCTTCTGTGTGTGCTACCCCATCACCCTGTGCTTCCCCTTCCAGCACTCAG
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TABLE 2

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CTGCACAAGGACAGGGGCCAAGCTACCCAAGCATTTCTATATCTACAATGNCTGGCAGGC
TTGGCGGGGGGCTCTATCATTACTGNGAAAAGACCAGGATACCTTTATTAAATAAGTGGA
ATAAAATTTGAATAGTT

Sequence=3136;DNA;Homo sapiens

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Sequence=3137;DNA;Homo sapiens

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TGACAAAATCTAATGCAGCCTACATGTCTCAGTGGTTAATACTAAGACTCTGAATAAAAT
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Sequence=3138;DNA;Homo sapiens

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Sequence=3139;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2
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TABLE 2
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Sequence=3161;DNA;Homo sapiens
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TABLE 2

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Sequence=3168;DNA;Homo sapiens
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Sequence=3170;DNA;Homo sapiens
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Sequence=3172;DNA;Homo sapiens
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AATTATTTTTCTCATTGTTCATTCTATCAGNGCCCCCTTTCCCCTCTGTATTTATATAGC
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Sequence=3174;DNA;Homo sapiens
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TTCTCATTTAACTTCTCTTCTCTTACCTTGCANAGCATTTTGATGATGAGTCCAGCTNAA
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ATGACAATTTAAGAAATGCNT
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TACCAAAGCCGTCNCCTTGGGCACCGAAGAAACACAGACGACTATCCAGCGACCAAGATC
AGAGCCAGACACCGGAAACCCCTGCCACACCACTAAGTTGTTGCACAGAGACTNAGTGGG
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CAGTGCTGATNACAAAGAGCGAGTTGTAATCCTCATCACTGCCAGGGCTGAGCCAGANCA
GACAGAAAATCGTCATTTGCTCGTTGGAGACTTGTTAGGTTATAGCTCCTGCTTCGTTCT
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GTTTGAGAGCCATTTGCCTGTGATTTTTGAAGACTAAAGAAGTATTTACACTAGATACTC
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CTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTTGCTTTGCTT
TTGTGT

Sequence=3187;DNA;Homo sapiens

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CTTCCCCTCTCTTACATTCTTTTCTATAAAAATATTTGNATTTCTCTGTTGATGAGTTTT
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CGTTTTTTTCTTACTCAGAAAATGAGGAAACAGAAAGTAGAGCAAATACAATATCTGAAG
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Sequence=3193;DNA;Homo sapiens

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Sequence=3194;DNA;Homo sapiens
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GGG

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Sequence=3205;DNA;Homo sapiens
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Sequence=3206;DNA;Homo sapiens

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Sequence=3207;DNA;Homo sapiens

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CACTATAACAAAACAAAACTCCCAAAAACAAAAACTGTAGGGAAATATAAACAAATGGCA
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GATTTAATACTGTGTTTCTCAAAAACATTTTTCTAAAGG

Sequence=3208;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
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TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
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TTGCTTTGCTTTT

Sequence=3209;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCGTCTACATGGCATTG
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GCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTGG
ATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTTG
CTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTG
TCTACATACACATCATTAAT

Sequence=3210;DNA;Homo sapiens

NCCCTTAGCGTGGTCGCGGCCGAGGTACCTGANATCACAAACAACTTTTGTGAAAAACAA
ACAGCATTCCTGTCATGGGCCCTTATTTAACCCACTCTNCAAANAAANGAGAGCAAAAAA
GTTTACTCCAGATCAAATATGCCATTTTAATTTTATTTCCTAAGCTTGGAATAAAATACT
GTAATTAAATACAATTGNATTATATTTCACAATTTTGAATTTAAGGGATCTGTTCTAAAT
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Sequence=3211;DNA;Homo sapiens

CCCTTAGCGTGGTCGCNNNCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG
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CAACAACTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT
AGTCGTCTGTGTTTCTTCNGTGCCCAAGGCGACGGCTTTGGTATGGGTCGCGGCGGTGTG
GTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGAATACTTCGTTGCTTGCTGCAAGGA
TCAGCCATGGTAGATTATGGTTTTTTGAGAACAGATGGGGCACCACAATTCCTAGTGTGC
CCATTAACAAAGTCTTTTCAAAATAC

Sequence=3212;DNA;Homo sapiens

CTTAGCGTGGTCNCGGCCGAGGTCAGCAGAATGCGTCTCCGAGAGCTCCCTTGGTCCAAA
GACAAAGCGTTCCTGCCCAGAGNCCACAGAGAGGTGTCTAACATGCCTTCTATACTCACA
AATTGGTTCTGATCCAGTGGAGTCCCATCAGTAGGCTCATGCACTTCCCCAAGAACTCCA
CAAAATGATTAAGAACTAATCAGCTTTTGGGCTGGGCGCGGTGGCTCATGCCTGTAATCC
CAGCATTCTGGGAGGCCGAGGTGGGTGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCT
GGCCAACATAGTGAAACCCCATCTCTACTAAAAAACAAAAAATAAGCTGGGCGTGGTGGC
GG

Sequence=3213;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
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TABLE 2

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TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTT

Sequence=3214;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGCCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGCTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGTGC

Sequence=3215;DNA;Homo sapiens

TTCCCCCTTTTTCCGAAGCCCGGCCCGCCCCGGGGCCAGGGGTACCACCAGGGCCCCAAA
GAAAAAAAAAAACCCCGTATTCAAAAAATGGTAAAATTATTCAAATTTCCCCCATTTTAC
CAAGCCCANGTTTAAAAAGAAACCAATTGGGGGGAAAAGACCCAAAGAAAGGGAAGAATG
GGCCAGGTTGGACCCAGGAAAAGGAAAGGGGGGAAGGAAAANGGGGGGGAAAAATAAATT
TGGGGCCACCTTAAAGAAAAAAAGGCCNGGAAAAGGAAGAACCATTATTTTTTGGGGAAG
GGGGAAGNAATTGGGGCCTTACCCCCCGCCCGTTACCCATTTTTCTTTAAAAGTTCAAAA
ACCCACCTTTGGTTGGAACCTTTTTTTTGGCCTTTTTTTAAAATTTTCCCATTTGNAAAATT
GGTTTTCCCCTTGGGCCCCTTTCCCCTTTTGGGAATTAATTTTTTGGGNNAATTTTTTTA
AATTTTTCCTTTTTTTTTTTTTTTTTCCTTTCCTTTAAANAAAAGTTTAANNAAAAGGGG
TTAAATTTAAAAATTTTTGGGTGGGGTTGGGAAATTAANTTTTTTTTCCCAANGGAAAAA
AAANTTTACCCCNCGGGGAATTTTAAAAAAATTTGGGAAATTTTTCCCCAAAAAAAA

Sequence=3216;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACTGGTATCTGATTGTTCTTACAGAAACTCAGGA
TGAAAACCGAAGAAGAGGCCCGGACTCATACAGAGATTGAAATGTTCCTTAGAAAGGAGC
AGCANAAACTTGAGGAGAGGCTGGAGTTCTGGATGGAGAAATACGATAAGGACACAGAAA
TGAAACAGAATGAACTAAATGCTCTCAAAGCCACAAAGGCCAGTGACTTAGC

Sequence=3217;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTGTATACTGCAGTGTCGTCTACATGGCATTG
GACTGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATG
GCAACCGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTTT
GCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGT
GTCTACATACACATCATTAAT

Sequence=3218;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCC
GTCCTTTGTGTGAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGT
GCAACAACTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGA
TAGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTCGCGGCGGTGT
GGTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATC
AGTCATGGTAGATTATGGTTTC

Sequence=3219;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT
TAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCATT
GGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAAT
GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG
GATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTTT
GCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGT
GTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGC
GTTTAGGTGTTTTATTGGATATATTGGATTTGGNTATATACCATTATTTTTAATACATAC
ACATGCACGCTTTTTAATTACATAATGTATATGTACCTGCCCN

Sequence=3220;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACCAGCCTTGACACAGAGCCCAGGGGCAAC
TTGTGCTTCAGTCAACCTGTGAATTCTTGATATTTATTTCTACTTGGGAGCATAAAAAAC

TABLE 2
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CCAAAGGTAAGTGGAGAAAACGCTCTTTACCTNCCCACTTCTTTCTNTGGGGATTCTCCT
TTCTCTTGCATTAGGCCAAGAGCAGAAAATCCTGGAGTCCCCAGAAGGTAAGGTTTAGAG
CTGACTGGAAGCCAGAACAACTGCCTTAGAACGCCAACGAGGACTGCTACTTCTGGCCCC
CTTAAGACCTCGGAGGACGGGCTTTGGCCAAAACACATGGGACCAGGTGCTTCGCCCATT
TTATTTTTTAATTTTTTT

Sequence=3221;DNA;Homo sapiens
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ATGATAAACTAGATGGAGGGGTGCCTATGACACTGTAAAGTTTAACAAGGATGTTGTAGA
ATAATGTGTATTGNATGATGCTATTTCTATGTCTTTGCATTAATCTGGAAAGAATGTTCC
TTTTTTTTTTTTGGAGACAGAGTTTCACTCTGTCACCCGGGCTGGAATGCAGTGGTGCAGT
CTCAAGCTNACCCGCAACCTCCGCCTCCCGGGTTTGAGCGATTNTTCTTGCCTCAGCCGT
CCGAGTAGTTGGGACTACAGGCATGAGCCACCACGCCCTGCTAATTTTTGTATTTTTAGT
AGAGACAGTTTCACCATGTTGGCCAAGGCTGGTCTCGAACTCCTGACCTCAAGTGATCCA
TCCGTTTTACCTCCAAATGCANGATTAAGCATGAGCCACTGCTNCCACTTGAGAATGTTT
TTTTGAATAACCTGCTTTNTCANTTTTAAGGGANAATGGGGGTTGGGAATAAAAGGCAGA
TCATTTTTTTTTAAGA

Sequence=3222;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACCATTTATTAACAGCTTTCCTTGGAAACTCTGAT
ATAGAGATACCTTTATATTTGTCTTCTAGGGAGTATATTAAGTAAACCAAAACATTTACT
TTTTTGGATGCAAGATAGAAAATGTTAACGTTTCTTTGCTAATGACATTCTTTTCCATAA
AAGTAGCTTGGGTAGGTAGAGGACTAATATCACACTTAATAGTATTGCTTTCTGGTTTCT
AGGAAGATTGCTACATGTGTATATGAAGTCCTGTAGTTCTCCTTTTAAACTGACTAGTTC
CTACTCTGCTTATGAAATTTATAGAACATATTTTAGATTTATGGCAATTAAAGCAATCTA
AGAGCACCTAAATTTTAAACTATTTTAACTACTCAATTCAGGGAGAAATATAATAAGAAA
ATTCCCCCCATATTATTTGGTATATAGTCTATTTAAAATAGCATAGCAACTTATATTTTA
TAGTAAGAATTTTGGCTGGATGAAAATTAATTTAAATACTAGAAACATTCATGTAG

Sequence=3223;DNA;Homo sapiens
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CTAGGCCTTTCTAATTCTTCCTCTTGAATTCCCTGTGTCACTCATCTGAGGTCATCTCTT
GGATTTAAATACATTTGGTCTGAAATTCTCAAACTGCTGAATAAAATGCCATAGTAAGTC
CAACTATATGGTTTCATGTAGGGTAAAGTAACCATTGTGGAAGGATTACGATAAAACTGT
GTGACAATAAATAGAATAAAAGATGGCAAAACAATCTGTAAATTACAAAGTGTTATAAAA
ATGCATTGAATTTCTAGTGTTCTTACACTTTCATATTTCTCATTGGCACATCAATCAGAC
CTTGCCTTCCTAAAGTGGGAGGAAGAAAAAGGCTGCACCTGTCTGGGCTGAGGGTCTGGG
CAGAACACTAGCAAAACTTTTAATAAATCTTCATGTCACCACCCCAAACTCATTANGGCC
CAAACTTATTTCATTATCTTCACTATCCCCATGGTTTTCCTC

Sequence=3224;DNA;Homo sapiens
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CTTTAGAAAAATGTTTTTTGAGAAACACAGTATTAAATCAAGAAAGCCCTTGCTGCTTTTA
TTGTCACTAAAATCATATATTGTTTTCCAAAGAATACTGCCATTTGTTTATATTTCCCTA
CAGTTTTTGTTTTTTGGGAGTTTTGTTTTGTTATAGTGGCAGCTGAAGTGATTTTGAGTGT
TTGCAGCATGATGTTAATTAACCAAATGTTTCAACCTGGAACTTTGAACACCTGGGCTT

Sequence=3225;DNA;Homo sapiens
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GAAGGATTAGAAAGAGTTTGCTAGTAGAAAACCGGAGTGGACGTCCTAGGGACTAGCTTG
AGCAGAGGCCTGGAAGCATGACAGGTTACACAGACTGCTAAGTCTAATAAACCAATCCAG
CTNTACAGCATAATGAGTTTTGAGAATTACAGTCAAGTATGATTAACTCATACTTCACCA
CTTNCAAATGTGTTGATTATCATCCTCTTATGCTAAGCTGAATT

Sequence=3226;DNA;Homo sapiens
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CATGCGCCTAGAATGTGCTATTTATTACAAGGCCAGAGAAATGGGATTTAAACATATTAA
CCACCAGGTGGTGCCAACGCTGGCTGTATCAAAGAATAAAGCATTACAAGCAATTGAACT
GCAACTAACGTTAGAAACAATATATAACTCACAATATAGTAATGAAAAGTGGACATTACA
AGACGTTAGCCTTGAAGTGTATTTAACTGCACCAACAGGATGTATAAAAAAACATGGATA

TABLE 2

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TACAGTGGAAGTGCAGTTTGATGGAGACATATGCAATACAATGCATTATACAAACTGGAC
ACATATATATATTTGTGAAGAAGCATCAGTAACTGTGGTAGAGGGTCAAGTTGACTATTA
TGGGTTATATTATGTT

Sequence=3227;DNA;Homo sapiens

CCCTTTAGCGGCCGCCCGGGCAGGTACGTTTAAAAGGTGATGCTAATACCTTTAAAATGT
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TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT
TGCTTTGCTTTTGTGTGCTTTTGTGT

Sequence=3228;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTGAGTGAAATTTTGATGTATAAGTGCTGG
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TATGTTGCTACATGCAGGGCACTTTATGCCTGACTTATATTAAATCCAGTCACCTGCTTA
ATGTTAGAAGGGTCATAATTATATACAAGGGTTTTGAACATACAGCATGTCAATATTTCA
GATCTGGCATATAAAATATGTATACCCATTTTCAATTTAACAATTTTAAAATATGTTTGG
TAATAACTTTAGGGTTATAATACAACACAAAATCATTCTATTTTCACCAAGAATAAAGTA
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TGGAGTTATGA

Sequence=3229;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCAAAGCCCTGCTCCACACCTTGCCCTGGCC
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CTACTTGTTTCTGCTGCTATAATAGAGAGGAGAAAATGATGAAATGCTCTTTTTACCTTC
CTGTTTGAAGATTGCCTGGTCATAAAAGGGAGTCAGAGGTCTGACTTCTCTATTTCCATC
CCTTAGGGGACTCTTTAACAACAAAAAGAATGTATTACAAGTATGTCAAGCTGATAACGC
AAGGCTTTTCCTCCTGGAAG

Sequence=3230;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
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TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGNGTGCTTTTGTGTGTCTGCCTATTAATACCGTNCGCTGCTTTTGTC
TGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGNGGATAACAGCAGCCTC
TGCGTTTANGTGTTTTATTGNATATATTGGATTTGGTTATATACCATTATT

Sequence=3231;DNA;Homo sapiens

CCCTTAGCGGCCCGCCCGGGCAGGTACTCACTTCCTCTTGGTGCCTTAAGAGCTTTCCTC
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TGAAGATTCTCACAAGTAATTGATAGAATGAGATTTATTTGACAAATAACAAAACCATCT
GCCAAATCCATGATTAAATGGCAGGGACTCTGGGTCTCTTGTGCTTAGTGAGGGAAGGAA
GGAGGTGGTATGTTTTCAGTGAAACACTCACTGAATGGAACTCCAGGCTGGAGGGAGAGT
GAAGAGGGAAGAGAATACAGTCCTTGCTATTTTCCTCAGCTGATTCATAATACATTAACA
CCCTCATTTACATGGCCTATTAGAAGTTATTTATATTCCAATTACAGGCTATTTGAATAT
TTGCATTTGTANTCNAATTACAGGGTTTAGGGAAAGCTCGT

Sequence=3232;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTCATGAACTGCTGGGCTCAAGCTATCCTCCCACCT
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TTTCTAAGATAAGCTTCACAAAGATGAAAATAACATTCTAAGATCCATTATGTATATATC
ATTTCACTNGGAAGGTGAATTCCTCCAGTAATCATCTATTCACCTTTACTTTGGATCCTG
ATTTCATACATTGGGG

Sequence=3233;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC

TABLE 2

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TGGATTTATGTCTATATGACAAATCTTGATCTGCATCCACAACATTACTGGCGTGCTTTT
TGCCTTGCTTTTGTGTGCTTTTGGGGGGTCTGCCTATTAAAACNTCCGCTGCTTTTGTCT
GNGGNCTACATACACATCATTAATACTATTGGGATTACTATTGGGGGATAACAGCAGCCT
CTGCGTTTAAGGGGTTTAATGGATATATTGGATTT

Sequence=3234;DNA;Homo sapiens
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GTAGAGATGATAAAATGTCATTGGCTCCAAGAGACAAGCTTCCGAAATCCATGGTGGTTG
AAGAACATCAAAGAGGAGCAATTATTTCAGTCATTAGGGCAGTTCCACCTGTTCTAATTG
AACATTTTTAGGATGTAGAAGATGCATCATACATTGGTATCTATTCAGAAGGTGGGGACA
TCTGCTGTCTGTCATGTATCTGGGAGATGTTTATCTCAACAGGAGGCAATAATAATATGG
TAAACCAAACCTAATATTA

Sequence=3235;DNA;Homo sapiens
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AGTCTAAGAAGATGCCAGTCAGGCTCTGAATGGCCTAGGTAATAGTGGAGAACCAGCCTG
GACTGGGGGATATCCAAGACATAGCATGAATGGGGCTAGCAGAGTCCTGACTCATATTTT
GACCATTAAAAAAAAAAAAAATCCTGGCTGAGTGTAGCGGCTCATGCCTGTAATCTTAGC
ACTTTGGGAGGCTGAGGCAGGTGGATCACCTGAGGTCAGGAGTTCAAGACCTGCCTGACT
AACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTANCCGGGCGTGGTGGTGGG
TGCCTGTAATCCCAGCAACTCAGGAGGCTGAGGCACGAGAATGGCTTGAACCTGGGATGC
GGAGGTTAC

Sequence=3236;DNA;Homo sapiens
GGTACTCTTCTTAGAATATATAATATCAATTAAATATAGTAATTCTGTATAGTTGTAAAT
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ACGCAGACATTGATCCTTATTTTTAGAATGAAGAAACTGAACTGACATTCACAGCAGTTA
AAAGCTTGCCAGATGGCCAGGCACGGTGGCTCATGCCTGTAATCACAGCACTTTGGGAGG
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ACCCCGTCTTTACTAAAAATACAAAATTANCCTGGAGTAGCGGNGCATGCCTGTAATCCC
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NCCAANTCCCCCCATTCACTTNGGGNGGGGNAANAAANCCNCCCCCNNNNAAAAAAANNG
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TNNAAAAAAA

Sequence=3237;DNA;Homo sapiens
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TTAATAGTTGGGGTCCATATATGCACTTTACTCATCCCTTCTCCAATAATGGGTCCGGTT
TTCAAGGGCATGGTCTTAAATTGTAAAATGGAGTTACAGCATATCCAAGCGAATAGGAAA
ATGAAGAAAATCTCACCCTACAATTTGTTATTTATCTAGTTCTTTCTCTTTCTCCCA

Sequence=3238;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG
TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGCGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTCT
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Sequence=3239;DNA;Homo sapiens
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TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
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TABLE 2
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Sequence=3240;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCCGAGGTACTAAAAACTAGTAATGCAAAGGCAGCAATGTTA
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AATAAATCAACGTGTTGCGATTGGTGTATTGCTGCATTTGGACTTACACCCAGTATAGCT
GACAGTATAAAAACACTATTACAACAATATTGTTTATATTTACACATTCAAAGTTTAGCA
TGTTCATGGGGAATGGTTGTGTTACTATTAGTAAGATATAAATGTGGAAAAAATAGAGAA
ACAATTGAAAAATTGCTGTCTAAACTATTATGTGTGTCTCCAATGTGTATGATGATAGAG
CCTCCAAAATTGCGTAGTACCTGCCC
Sequence=3241;DNA;Homo sapiens
CCCTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGT
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TGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAA
TGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACT
GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTTT
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Sequence=3242;DNA;Homo sapiens
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CATGTCAGTTTAGATGATCTCTTAAATGTAACATAAACCCTTAAAATCT
Sequence=3243;DNA;Homo sapiens
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CAACAACTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGAT
AGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTCGCGGCGGAGTG
GTTGGCCAAGTGCTGCCTAATAATTTCAGGAGAGGATACTTCGTTGCTGCTGCAGGATCA
GCCATGGTAGATTAT
Sequence=3244;DNA;Homo sapiens
CCCTTGAGCGGCCGCCCGGGCAGGTACTCGTGGCCCATGTTGGTTCAATTTTTATAGCTT
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GGGCAGACACCCCATCTTTTTATTCTGAAATTTAAAATAATTCAGATTCTTTTGGGGAGG
GGATTAGTTTAAACATTAATAAACAGAATATAAACAGGCAGATGGATGGGTAGATAAGCG
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TTCCTAACTTGCTGCTTCCTTCTATCAACCTTATCTGGTCTGTAAGAACCTGGGAAAATA
TAAGAAACTGATGGTTGTGGGGAGGGAATAGAAGAAGACTGTTCTAGGTCTTAGAAGATG
CATTAATTAAAAGTTGCTAAGGCTTGTAATTAAGAATCAAGACCCTTGTAGGTGTAGGTG
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AGAATTCTGAAGTTTTACAAAGTTNGAAGAAGAGAGAAAAGGGAAAAG
Sequence=3245;DNA;Homo sapiens
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TCATTCTGTGGTTGATGATTCCCTCATGGAAGTTCTTGTTCAGGGAAGAAGAAAAAAGGA
CATCTCATTAAAGTGCCAAGATACAATGCCGGCTCCTACGTGCACCTTGTTTTGGACCCT
GAATGTAAATGATCACTTTCAGCGTGTTTTAAAAAGCATTCGTGATTTCAGCGATCCTTT
CTGAAATGTGTAAAAATACCATCGTCTCCAACGATAAAAACAACAACAACATCTGCCGAT
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Sequence=3246;DNA;Homo sapiens
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ACAGAAGTACCTGACGGATACAGCCCTGCTAGAGTGTGGGCAACAGACAGATCAGGGTGG
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ATTCCAGAGAGAAAGGGTGCAGGAACTATAAAGACAGGAAGGTATAAGAGACAAGGTATG
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CTTGTAAGGCAGGGGCAGGTGGATCTCTGTGAGTTCAAGGCCAGCCTGGTCTACAAAGTG
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TAAATTGCAATTCTT

Sequence=3247;DNA;Homo sapiens

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CGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTGTATGTAGA
CACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACACAAAAGCACACAAAAGCAAAG
CAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAGATTTGTCATATAGACATAAAT
CCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAGACAAAAATTGGTCACGTTGC
CATTCACTATCATATGTAAGTGTAACAATTGCACTTTTATGTTTTACATTATGTCCTGTC
CAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTAAATCTATATCTT
AAACATTT

Sequence=3248;DNA;Homo sapiens

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CGCACCTCTGGGCTCAGGTCTCTCATTTGTAAAATGGGACATTTAGGNCANATCAGCATT
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Sequence=3249;DNA;Homo sapiens

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TTTGTTGAAATATGTCATAAAGAACAATATCCTAACTGGGGGTATGGCTTAAGAGCAATC
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TTCTTGGAATATTTAGAAAAATTGATTTTAAAATGTCTCTTGGAATAGCTGGGCTAGAAA
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Sequence=3250;DNA;Homo sapiens

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GGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGCTTTT
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Sequence=3251;DNA;Homo sapiens

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GTGCTCAGTATTCCATTTTCAGCTCAGTCATGTAGAAAGGTGAAAAGAGGTTAACTCCTG
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TGTCTCAAAAAAA

Sequence=3252;DNA;Homo sapiens

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TABLE 2
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TABLE 2

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AATGGAAGACTGGAAAAATAGCTTGTCATAGCCCATTAGCGACTACNCGCTGCGATTTAA
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Sequence=3260;DNA;Homo sapiens
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TABLE 2

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ACTTCTTGGGGCANGAGGAGAGAAGAAAGCTATCTAAGAAAGAGGAAGATTTACATTTAG
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Sequence=3267;DNA;Homo sapiens

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CANCTAAATGTGGANTTTGAAAGGGTGTCCNCTGGAACCCATCNTATAGTANTCCNGCCA
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Sequence=3268;DNA;Homo sapiens

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AATCTCCTAATTTAAGACCTAGATAAACCCAAGATTTACCANTTTTTTGAAAACAGTGAT
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Sequence=3269;DNA;Homo sapiens

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Sequence=3270;DNA;Homo sapiens

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Sequence=3271;DNA;Homo sapiens

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TGGTTTAAAAATATTTTAAAATTATTTAACATATGAAGAATTATTTAACATTTCTCTCTT
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TABLE 2

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Sequence=3273;DNA;Homo sapiens
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Sequence=3274;DNA;Homo sapiens
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GGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTACTG
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TABLE 2

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GCTTTGCTTTTGTGTGCT
Sequence=3279;DNA;Homo sapiens
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Sequence=3339;DNA;Homo sapiens

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TABLE 2

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TACTCTCATGGGAGCTTCTTTAACATTAGTTCAGAGGTTAATATATTTCCTGGAGGTGTT
TTCCTGGAATTGATTGCACTATTGCATGGTAATAACATTTAATTGTTAAGGAAACATTAT
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AATAGAAGGACATGATATTTTTCT
Sequence=3357;DNA;Homo sapiens
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CAGAAACAAGCACCCAAATGTAGATCACCCTGCTGAAGCTCAAATCACAGGACTCCTTGG
GTATAGATGCCTTAGAATGCTACAGGGCCGCTACCGTCTTCTTCGACTACGTAATTCAAA
AGACAGCTGTGGCTTGGTCTCATTCCTACAGAGGGGCTGAAGCATGAAACTCAAACCCTA
GTGCTGCTTCTGGAGATACTGCAGGATGTGATGAAGGAGGTCACTTAAACATCAATGTCA
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Sequence=3358;DNA;Homo sapiens

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AACAATGCATTACATACAGTGGATGCCTACAGCATCAGGGCTAATTCTCTCCTCAAGAGT
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CTGTCTTTTACAAAAAAAA

Sequence=3359;DNA;Homo sapiens

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CCTAGAAGCCTTCTCTCCTCCCACAGGAGTCCATTATCAAGGTCACCTTCACGGATGAGG
CCCTTAATGCTAGGCAGTAACAGGCTTGGGGTAGGAAAATGGGACAGAAAAACACAGAAG
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CGGTGGGAAAGGCGTGAGGCTTTGAAGACCCTCTCCAAGGGGCCCAAGGCTTCAGAAAAA
AAAAAAAAAAAAGGCAGGGANGGGAGGTAAGGAGGCANAGAAGTAANAAAGATTANTATN
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Sequence=3360;DNA;Homo sapiens

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AAGCAAGCTAGGGCCAATGCTGAAAAAGGTAGCTGCTGAGTAGCGCAGGGAGACAACTGA
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Sequence=3361;DNA;Homo sapiens

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CCCANGGGGAAAAAGGGGAAATANTTTGAAAAGNTTTAAGGAATACCAATTTACCTTTAC
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GAATCATTTCTTGTTGTTAGATGCCTAAGTGCAGTTGTCAAGGCTGTAGAACTGCCAAGG
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Sequence=3363;DNA;Homo sapiens

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TABLE 2

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ATATGATAGAAGCAGAGATTTCTTTTGTTGACAGCCTTCAAGATCTTATGCAGGTTATAG
AGGAACTGTTCAAGGCTACAACAATGATGGTTCTCTCAAAATGTCCTGAAGATGTTGAAC
TCTGTCACAAATTCATAGCACCTGGCCAAAAGGACAGATTAGAACATATGCTAAAAAACA
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ATCCCAGAACTTTGGGA
Sequence=3366;DNA;Homo sapiens
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TCAGGATACCAACTGAAAGCAGATCTTAAAGTTAATAACTCCAGCTTTTTTTTGGTTTAGT
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AAAGGACTTAATTTGGATATTGCAGTTATTTTAAAAAA
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CCCTTAGCGTGGTCNCGGCCGAGGTCAGGAGGGTGGGGTTGGGAGGAGGATAAGCATCCA
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Sequence=3372;DNA;Homo sapiens
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TABLE 2
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TTCTAATTTCTGTGTAGGGGTAGTTGTAGCAAACAACTTAGTTTCTTTCAGAGCGTGACT
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TABLE 2
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TABLE 2
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Sequence=3391;DNA;Homo sapiens
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Sequence=3394;DNA;Homo sapiens
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Sequence=3395;DNA;Homo sapiens
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Sequence=3396;DNA;Homo sapiens
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Sequence=3397;DNA;Homo sapiens
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TABLE 2

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TCAAGAGAAGACTCAGTGCTCACAGAAGGAGGGGCAATTTGAGGGCAGACATATTGTCTT
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Sequence=3398;DNA;Homo sapiens

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Sequence=3399;DNA;Homo sapiens

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Sequence=3400;DNA;Homo sapiens

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CCCAGGTCAAAATTACNAGCCAGGACTTCTCTTTCATCACAAAGAAGTCTTCGACCAATG
TGGA

Sequence=3401;DNA;Homo sapiens

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Sequence=3402;DNA;Homo sapiens

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Sequence=3403;DNA;Homo sapiens

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Sequence=3404;DNA;Homo sapiens

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Sequence=3405;DNA;Homo sapiens

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TABLE 2

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TCTGATTTTATCTAAGTATCTTCTGGTTGATTCTTAAACTGCATGTATTTATGGCACATG
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Sequence=3407;DNA;Homo sapiens

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GAACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATT
CAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGG
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Sequence=3408;DNA;Homo sapiens

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AAAGGAGGCCCGGCCGTGGTGGCTCATGCCTGTAAGTCCCAGCACTTTTGGGANGGCCGA
ANCGGTGGATCACAAGGTCANGGAGATCAAAGACCATCCTCACTAACACAGGTGAAACCG
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Sequence=3409;DNA;Homo sapiens

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Sequence=3410;DNA;Homo sapiens

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Sequence=3411;DNA;Homo sapiens

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Sequence=3412;DNA;Homo sapiens

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TABLE 2

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Sequence=3413;DNA;Homo sapiens
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TABLE 2

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Sequence=3420;DNA;Homo sapiens

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Sequence=3421;DNA;Homo sapiens

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Sequence=3422;DNA;Homo sapiens

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Sequence=3423;DNA;Homo sapiens

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TABLE 2
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Sequence=3426;DNA;Homo sapiens
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Sequence=3430;DNA;Homo sapiens
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TABLE 2

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CTTCTGTGGCATTTTGATGAGTAGTATGGGCTCCACACTGAAATATTAATATCTTATTGT
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Sequence=3433;DNA;Homo sapiens

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CACCATTACTTTTCCATATTAAATATAGAAAAAAGCAGAATCCCATGTGTCCCAGTGACT
GTCAGAAATCTTCCCTCTTCATTAAATAAAAATTTAAATACCACAT

Sequence=3434;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTACTTCAGTCATTTTCTTAATTTGCAAATCAAT
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TGCTTAATTTTTTCTTCAAGTTCCTTTTCTTTTTCAAATACTTGGGTTTGTAATTGGTCA
AGTTGTGAAAAATCCCAGTTTAAGTCCAATATAGTCAAACACTTTTTTAAGTTTCAATAC
CTGTAAGATGCAACACTTAATAGCGGTGAGTCTGTCTTTAAGATTATAGATCTCCTCTTT
AACACCTTTATTTACTTCTTGATTAAAGTAATAGTTCATTGCGCTGTATACTGTCAGCCT
CCTCCTGAAGCGCTGATGTTTTTTCATGGAATTGTCTGCAAA

Sequence=3435;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACAAATGCTCTCCCATAGGCTCTTTTATTGAATC
TATGAAATGATTCAATCTTTCCCAAAAGGTATTTGCCAATTATACAAAGTATTTTTAAAA
TTCTTATGTTATTTAACTAGTAACTCAATTTCTAGGAATCTTTCCAAGGAAAATAAAATC
AGAACTGTAAATAAAGTTTTATGGATTGGGAAGTTGGAAACAACTTCACATTCAAATTAA
TACCAATCTTTTTTCTTCATGAACATTTATCAAACATTATCATTATCAAACATTATTTAT
CAAGTCATTATCAATGACTTGTTCACTGTTCTACCTGTATGTTATATGCTATAAAGTGCA
AAAGTAAAAAGAAAATGTTTAAATACATATAAATCATATTTTTATTAAAAAGTCAATGAA
GTGAAAATGTTCATAATTGAAAAAGCAGCCATATGTATGATATTACCCAATTTGTAAAAA
GTAATTGTATAAAAGTAAAAAAAAGTTATAGAATCTTGTGTTATAGCAATGCATTACATT
ATTTTATCATGGTATCTAAAATAATTATATTGGAAAGATGATATTTGTGTAACAAGGTTG
ACCAAAAATGGTTCTATCAANGCATATCTTATTTGGGTCATTGGGGAANCCCNTTCCTAN
CTGGTTATTTCTGGA

Sequence=3436;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATACATATATATTTATTTATACACACACA
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TATTTGGTTATCCTTCCCTAAGTCACTTAGCTAGTAGGTGGCAGAGCTAGGGGAGAGGAA
TATCAAATTAAGTGCTTTAGGCAACTTGTTTCTCCTACACTGCAGTGCACCTTTCCCCCT
CAAACACTTAACGATCAAGAGACTGTTTTAAGATGGGTCTTATCACGCTAAAGCTNAGTC
AAATGGGAAAAAAAAAATTGTTCCCTTTAAANATTTCTTCAAAA

Sequence=3437;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTA
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TATGTAAAGTTTTTTAGCTGTCCATTACCCTGGTATAATCTTGGAGCCATAACCCAAAAC
TATATTCCTGGCAAGCATGTTAAGAAGTGGAAAATATGGGTTTTCAAATCTTGTGGAAAT
ACTNGCCTTTCAAATCATGGGTGAGAAAAAAATGCTAAATTATTTTCTTACTATGAGGAA
GATTTCTTGCCATTTATCTATGTATACAATATTGNATCACAACAGTTAAGGTATAATATT
TCTACTCAGAACAACAGATTACAAAAAAATCATATGCCCCTTTCAGTGTTCATATTGCTT
TGTTAGGCCATCTCTCAGAATATATTGTGTAAAACCAGAAGTTTTAAGTTTTGTGTTTAA
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Sequence=3438;DNA;Homo sapiens

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GACATTTAAAGGGGATTTCATGAAAATTAAATTTCTTGGGTTTGTTTTTTCAAAGTTTTA
AAATATATGTTTATAGATGACATGGATAAAATGAACTAAGGTAATATAAATAGTGCCTTT
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CTTGATTAGAAGAAATAAAAGTAGATT

TABLE 2
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Sequence=3439;DNA;Homo sapiens
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TCCAGGTTTTTCATAAATAAATGAGGAGTCTATAAATTCTTACTAGTTTTAATAGAAACA
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AATAGGTAAAACTCATTAACCCATATACTT
Sequence=3440;DNA;Homo sapiens
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ACTACTACTTACATGAAATTCTAAAACAAAGAAAACTCATCTATGATGTCAAAAATCAGA
TGAGTAGTTGCCTGAGGCAGGAGATGTGGGTGGCTGATGGCAAAAGAGCACAAAGGAACT
TTCTAGAGTGATGGAATGTTTTATGTCCTGATTGGGGTGCTAACTGCATGGACAGACACA
TTTGCCAAAATTCATCCAACTATACATAAAA
Sequence=3441;DNA;Homo sapiens
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GGAAGCTTTTATTATTACCTGTTTTTTTCAAACATTCAAAAACCGTAAATAACTATGAAA
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GNAAACAATTAAGTTTCAAAAA
Sequence=3442;DNA;Homo sapiens
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ATCTTAAAAGATAGGTGTGATTCGAGCTGTCACTGGCATTATCAGACTTTTTATATCAGA
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AGATTATTTAAGATTTCATTTTNCCCATT
Sequence=3443;DNA;Homo sapiens
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TTGCTATGTTAGTGTGAATGTTGAAGGTGCAATTATCACATTGTTTATTAATTGTATAAC
AGATTATTACTAGAAA
Sequence=3444;DNA;Homo sapiens
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ATAGACAGTGTTAGCTCCCATTGAAGAGGGGCAGGGGGAGGGATTTATTCATTCAACAAG
TATTTTGGTTAAAAATTTGGGAAACAGTTCATACTGTATTCCATCCTGGAAAATCATAAT
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GTCAACTGAACATTTCCCACACTTTTTGATATAGGAACTGTGTGTGTGGGACACATGTAT
GTCAAATGTTAACCCACAGGGCAAATTTTGGAAAACAGTCATCTGTTCTATGGTATTTAT
ATACATTAACACTAAAAAAAGTGAATTAGCTCTTACATTTGTGTCACCCAATATGAGTAT
GTTGAAACCCTAATCCAGTGTGATGATATTTTGAAAGTGGGGGNCTTGGGGAAGGT
Sequence=3445;DNA;Homo sapiens
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AATCATAGGGAACACCATGATGGTCAGTGTTCAGACTTGATGAAGACTGAAGCATGAGAG

TABLE 2
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AGGGCCAGACAGATATTGTGGAGTCCGTGCAGCTTTCTACTAATTTCTATTTACCAATAA
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Sequence=3446;DNA;Homo sapiens
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GGGTTCACGCCATTNTCCTGCCTTAACCTCCGGAGTANCTGGGACTACAAGGCGCCGGCC
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CTGCCAAAAAANTTGCTTTGGGGNTTTNCCAAAAANATTAANGNNCCACTCGGGGGCCCC
AATACCCTAAAAATTTTTTTT
Sequence=3447;DNA;Homo sapiens
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AAAACTGGCTTCCTNGGAAAGAGAGCAAGCTATGGGATTAAGATACTTAATAAAATTTTA
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ATTCTCTACACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAAACTCAATGCTTAAAC
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TGTCC
Sequence=3448;DNA;Homo sapiens
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ACAGAGGCATATTACCTCCTTACATTCTTGTGTCTTGGAAGATTTCTCACATTGGCAAAC
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ATTCCCAGCAAGTGAAGGAGCACAGGACCGCTGTTTTGGATTTCATTGAAGATTACTTGA
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Sequence=3449;DNA;Homo sapiens
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GCTGAATCATGCAGCTTCACTTTATGGGGAAGAAACAGGAAGGAGACTGAATGCAGATAA
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ANGCAAAGTGCCTTCC
Sequence=3450;DNA;Homo sapiens
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CAAGGAGTCATGAGATAAAATGAAGTGCCTGGGGGAAACTTTGAGAAGCTTAGTTTGAAT
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CAAACCACATACTATCCAAGGACAATCCACTGTCTGACATACTCAACTTTTTAACTGTGT
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Sequence=3451;DNA;Homo sapiens
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AACTTAAGGAATAATGATACTTGCTTTGCCATTCAAGGGCCTTTTTTTATCTGTTTACTT
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Sequence=3452;DNA;Homo sapiens

TABLE 2

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TTGTGAGAGTGCTTGTAAGTGTTTCGCACTGTATGAGATAGTTTTTATGCCATATGGGAA
AAACACAATAAAAATTCACTATTATGAAATAAAATAGCATCATTGGTCATATAATTCACT
TCCTTTTCCTACAAATAAATTTTATTTTCTTGTAAGGAGAGAAACTAACAATAATTTGAG
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AACTTGTGGGGAAACCTNAGTGCATTAANCANCANCCAATNCTTGCTTAATGAAATGGGG
AACAAAAGCCANACCCATTTAAAAGCTTTNAGGAANAANAAGGATTGAGGCCAATTCCAA
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CCAAACTTANAAAAAAATA

Sequence=3453;DNA;Homo sapiens
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TTTTAAGCAAATCACCGGCTATTGTGTGGAAAATAGGGAACAGAGACTAGCAATGAAAAT
GGAAGGCGGGGGGCTGATAGATGGAGGCATTAGAAGTAATGAGAATTGATAGAAGTTGAT
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Sequence=3454;DNA;Homo sapiens
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ATTGTCCAAGTATAAGAAAATGGGCTTCCAGAGACACTGCAATCTCTACTGTGCTGATTC
ACACTGCATCATATGATATAGAGGTTGTATCTTAATTTAGCATGGTCCTACTGGATTTGC
TTTTTATTACTAAATTACTAAATAACCTTAGAGACTAAAAACAACACAGCATTGTGAGAT
AATTAGGGGGTATTGTCTTTAGCCTCTAGGGGTTGTGGTAAATCTGAGCATCGTCTCACT
GGATTCTCGACTC

Sequence=3455;DNA;Homo sapiens
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TCCAGGTTTTTCATTAAAANTAAATGGAAGGAGTCTATAAAATTCTTACTAGTTTTAATA
GAAACATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAAAATGTTTTCAT
TTCCTTTATGTTTGAATGTTCCTTCCAGGTCTTTGAAAATATACATTCTGAGTTGAAAAG
CTTTATAATAGGTAAAACTCATTAACCCATATACTTTCCATGCTGGGCACAGCANGTGTG
GGTAGGGTAAGAAATATAAAGATGACTCCCAANGATTTTTTG

Sequence=3456;DNA;Homo sapiens
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CCTCTTACCAATTAGTCATTCGTTCAACAGAACTTCATGGCTAGGAAGTCACACTTCAAG
TTGCACTAGCACACTATTACTTTGGGGATGAAAAGTTTACATTTCCTAAAATGTGCTACA
CAAAAACATTTCCATAAGTGTTTTTCAGAGAGTCAGTTGCACTACAAGCCTGATGAAACT
TTTTCAACCATAAAAAGACTCGAGTTCCATAAACCGTCACAAAGATGTGAACAGGAGAAA
CTGCAGACTCTCCATCAGATATATTTATTGAATAAGCTGAATGGAA

Sequence=3457;DNA;Homo sapiens
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GATCAAGAGGCACGTGGAAGAAAATATGAGCCCTCCAGGAATTTCAGTGAAAACCAGCTG
AGATTCGAGAGTGAGACATGGCTTTTCCAAATACAGCTGGTGTGTGTGAATTCTTACAAA
ATTACAGGAGCAGCATTGTCACTGTGAGTGAGAGATGATGTGGTCCATTTGAGAAAAGTC
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Sequence=3458;DNA;Homo sapiens
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TCCACTGAATGTCAATGCTATTAAATGAAATACCATTAATCAGTGTTTATCCATCATTTT
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AAAGAAAGAAAGTCAGTATATTGAAGCGATATCTGCACTCTATGTTTGATGCACACTGTT

TABLE 2

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CACAATAGCCAAGATTTTGAACCAACTTACGTGTTAACTGATAAATGGATAAAGGAAATG
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NGGGTCTTNTACTTNTANGACTTTCCCTTTNAAGCGAANGCTTTTNAAATTCATGAAAAT
TNTTAATTTTACCGNTGGTAAAAAAATGAATGGNCCTCCCNATGAATNGGAGGTTCATGN
GGGGGCCCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCCNTTNNCCTTNCTTTCNTTNTT
NCCTTTNTNTTTCCTTNCCCN

Sequence=3459;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGGACTTCTTAAAAACAATCATCCCTGTGT
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CATTAGCCAGCACATATTGTGGACAGATTTAAATTAGAAGACACTTGGTGATATCACTTA
AGCCTATTTCTGGACTCCTGCAGGAAAACAAATGCTGGCACAAAAGAAAACTGCCAAACA
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TGAGAAAATCCATTGCCATTAAACTCTTTTATCCATTCGTGATCTCACTTTATAGATTAT
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AAAATT

Sequence=3460;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAAGCATGTGAAGAAGCATCTGCCCAAAGCAC
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AGGATGACCATAGAAACCTGAGGAAGTGGTTGACTAATCAAGAAGAGAAATGGAAAGGAA
CGGAAGAACCAGGGGAGAAAACTGAGCTGTTCTGCCAAGCTTTAGCTAGAAAGAGGGAAC
AGTTTGAATCTGTGGCCCAATTGAACAACTCTTT

Sequence=3461;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGAAGTGTCTTCTTATGAGTTCCATTTTCCC
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AGTTACATGAACCCTTTTCTCTAGCCAGACTACATAACTCACTCTGTCTGCCACATATCC
CCTGTATTCCCATAACCAGACTTGACATGGGGGACTCAATTTGGCTGGATTGACCAGCCC
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CATATGACCCTCCTCTCGATCCATAAA

Sequence=3462;DNA;Homo sapiens

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CACATTGCTCAGGTTGGCCTTGAACTCCTGAGATCAAATAATCCAGCCTTTTGGGCCTCC
CAAAGTGCTGAGATTACAGTCATGAGCCACTGTCCCTGGCCTGTGTGCTCAATTTTTAAT
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Sequence=3463;DNA;Homo sapiens

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TCGGTTTCTCCAGCTTTCAAGGACTTCTAAAAAGTGAGCCTGGTTGCAGCTTCTACAATG
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Sequence=3464;DNA;Homo sapiens

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TABLE 2

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AAAACAAAATGAAACAGCCTGGGGATAACAGCAAGATGGAGGGTTCCCAGGAGCAGCACA
GGATGGGAGATGGAAAAGGACATCAGTCAGTGCCTGTGGTCTGTCAGCTGCTTGACATGG
GCCATCTTCATTCAACTTCCTTAACACTTGANAATTANGTATTGGCATCCCTGCTTTAGA
TGAANAAAACCAAGGCACAACATGATTAAATTGTGCAACTGNTATNCTGCANAACCAAGA
TTTTCA

Sequence=3465;DNA;Homo sapiens
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Sequence=3466;DNA;Homo sapiens
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GGTCTGTTAAAAAACGATGACTTTAGCCGGGCATGGTGGCTCACACCTATAATCCCAACA
CTTTGGGAGGCAGAGGCAGGCTGATCAACTGAGGTCAGGAGTTCAGGACCAGCCTGGCCA
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TATTCTCTACACACTCAGGCTAGAGAAAAAGTGGGCACATTTCAAAACTCAATGCTTAAA
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CTGTC

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ATGGGAAGATTTATGGATATGACATCAGAACCATGGGGAAGGGTGGAGGAGGGCATAGAG
TGATTTGGCTNCGTCCTCTAGGTGGAAGGCTCTCAAAGCACAACTTGATTGATGAGCCGG
ACAAAAGCTTGGGAGACTATGNCACCCCGCGTACCTGNCCGGGCGGGGCGCTCGAAANGG
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GGGTAATCATGGNCATAACTTGTTTCCTNGGGGAAA

Sequence=3469;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACCCTGACTCCCTAATTTGTTCCTACAGATTTTAA
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AGGAAGAAAGGAAGGAGGGGAGCCCTGGTAGAAATTTCATTTTGTCCAGGGCAACTTGGG
GACTTACAAAGGAAAGACCAGAGAGCANAGGCNGAGAGAGGAAATGGAGCNAGAAGTGTG
AAAATTAAAGGGGAACCCCAGAAAAGAGGAAAAAGTTTGAAAATTAAGTTGTACCTTTCT
NTTGAGCTTTTTTTGTTCAGAAAGTGCCCCNAAANGGGGGTTGGNGATACTTANAAAAAAG
TTTACAAGGAGAAACNCTTAATTGAAGAAGGAAAATTCTTTGATGANGGTTGTTNTGTTT
TTGAAAATNTCTTAAAAAGACAAAAATCNTTTATTACCAAATATTNTTGCCCCAAGGGGN
GAATTTAAAACTCCTTAATTTTGAAAGGGCCTTTTTTTTTTTTTTTTTTT

Sequence=3470;DNA;Homo sapiens
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NACTGNGAGTACCCAGGCTACCTGTCAAAGGGTAAGGGNAAGAATTTTGGCCCCATGTGA
AAAGTTTNGGGNGGGTGAACAAGGGGNNAAAGGGGCCTTGNTTAAATGGAAATTTNNGTT
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NGNGGGGTCCTTTTNGNTAAATTTTCCCCCAATTTGNNCNCCTTAANTTTTTATNCCCCC
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Sequence=3471;DNA;Homo sapiens
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AGATAGTTAAATATAAGAAATGCTAGGCAAGCATAATTTGTATATGTATAATACACCCTG
AAAATTTTATTCTCAACTTCACTTCTGTTTAGATCTGAGACACTAAAAATATTTCCTTTA
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ATATTCCAAAATTAAAGAAGTGCCCTTAAAA
Sequence=3472;DNA;Homo sapiens
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TAAGTGGGGCATGTGTGCTCCTGTGAGTCCAGAGAAGTTGGCAATTCTGTGTCAAAAACT
TGTATTTTTGCATATGTATGGCAAAAGTAAAGACTTGATTTCTGATTTTGAAGACACATA
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TGATACTCTTGTGGGAACTACAGGTGTGTTTTCCTCTAAGAAGGAACAGTGCTTCTGTGT
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ACAATCCNGCTTTANTTGGATNGGGGGGAANAANAAAACTTNGGGAATAATTATGGTNAA
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GTTAATTAAAAA
Sequence=3475;DNA;Homo sapiens
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TTTTTGTGTGACAAGAATTGTGACAGGCTCCCAGGACCTAAACCCAGAAGGAAGCAGGAC
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AGAATTTCTAAGATAATAAAATCCCAC

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ATGTCAGCAA

Sequence=3477;DNA;Homo sapiens
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CATTGNCACCACCGTCATGACTGACCCTTTGATTGTGTGATTAGAAGTCTCTGTGGCAGC
ATGGCCCACAATGAGCAACATACGCGATGTGTTTCANTATCCAATGCCAATGGAGTGGTT
AAGTCATTTGGGGACATAATATGATGGAATGTTATTAATCATTCAAAGTAGTGTTCATTG
ACAATTTTGATGTAATATGTTCAAGATTTAAGTGAAAAAGCTGGTTACACGTGAACTGGA
AAAAAATTCTACTGGATATTATATTACTGATTTCATGGGATGNGGAATTATGAAGATTTT
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NTATGCTTTAATACTAAAAAAA

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ATAATTTGGAGTCATGCTCTCAGCTGAAACACAGAGTTTCCTTCCATAAGGTCTAGAAAC
CTGTGCAGAACATGAAATGTAAACCCTTGAGCAGCCATAATTTTTCTCAAGTATCACACT
TCTCAGTTTCCAGTGGGATCTTTTCAGCTTTCACGGTCTCAGCATCCTATTTATCAGTGG
AAAGTAATCAGGGAAA

Sequence=3479;DNA;Homo sapiens
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TAGGTGAAGCCAAAAAATGGAGTTTTCGCCAAAAACATGTGAATGGAAGTGATGGGTCCA
TAGAAACTACCCATGTAAGCCTCCTCCATGTGCTCTTTCCTTTCTGGCTGGGTTGAATGG
AAAGAAGCACAAAGCCATCATCATTTTGGGACCTCATATGATTGCATGAAGATGGACTAT
CATACCCACCAGCTCATTCAAAGAGGATTGTTCTGTCTGCAAGATTGTGATTAAGACACA
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GATGACTCTAACAATGTGGCATAATCACTAGCCAAGTTAACTACTTTATTCCCAGAATTA
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AAACCTCATTTAAAATTGGGAACCAGAATTTAAAATAACCTGGAGAACAANAGTGGCTNC
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Sequence=3481;DNA;Homo sapiens
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GGAGGGAAAANTTGNTTGAAACCNAAGGAACTTGAGGCTACAGTGTGCTATTGAAGCATG
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AACCCTAAGGTAGTTCATTACTTGATAGACAAAAAATGCTNCAGGCAAGTCCTTCAANGC
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AA

Sequence=3482;DNA;Homo sapiens
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ATTTTAGAGAAAAGAAACCTGTTGTTTATAAGGAGTTGACTGATGTGCCTAGGGTCACAC
AGCTAGAGCCCTTTAAGCCAAATTGTTGCTCTATTATCCTACACATTTCCTCATAAATAA
GTTCATGGGCAGGAGGTGAGAGATGAAGAAAATAGATACACCAGTCACAATGTTAAGAGA
AAAGCTCTAAGAGCCAGGAAGAGAATAAACAAAAATGAGGGGAATAAAAGAATCAAGAAA
GAAGTAAATCTTTCTTTGTTCAAAGACAAGTTCCAGACAGAACTGGGAACATTTAAAGCA
GAGAAGGNAGAAAAAAAAAAA

Sequence=3483;DNA;Homo sapiens
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TTATCTCCCAGTGCGTAGCTATAGCAATGCTTTTAGATAAGTAACCTTGCACATTTTCAT
TATTTTCAATATTTCACTGTTACATAAAATAAGGGTGACCATCAAGGTTGATTTTGACTT
GAGAACCAAAAGTTCTCACTGGAGGCACCANGAAAAAAAAATGTANTATNGNCCATANNN
NNTNATNTNATATACAATNNNATNTNCAATANATNATA

Sequence=3484;DNA;Homo sapiens
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CCTTCCAACCTTTCAGTTTGGAGGCAAAGGAGGTTGTATCCAGAAATAAGTATAATCTTC
AAATGTGCCTGTGGTCAAAGCCTTAGCACCAACCACATGAGTTTAATCCAACGGCAAAAT
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AGGTCCCAGTCTCAAAAATGCTCTCATCTGAAAAGAGTTCAAACCTCTGCTTCTGGCCTG
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CTA

Sequence=3485;DNA;Homo sapiens
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AGCTTAGTGGCAGATCATTGTTTAGTGTTCTTAGACTCAAAGAATTGAGGATTAGAAGAA
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TTATGTTAACTCTTTTCAGATCCAAANGTTGTGGACACATATATAAAATTTAATTTGCTT
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TCCTGTTTTTAAAAGAAAT

Sequence=3487;DNA;Homo sapiens
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TABLE 2
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AGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCTTATTC
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GAAATGCAATTTTTAAAAATGACCACAAATATCCCAGGAATAATTATTCNGAAAGGATGC
AATGGAAAACAAAAATTCAAAGAATCCATCAAGGGCNTTCCCCCCNAAATTAAAATGAAA
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Sequence=3489;DNA;Homo sapiens
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Sequence=3490;DNA;Homo sapiens
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GAAGGTTAAACAATT
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TABLE 2

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TATTGAAGAAAAAGAATTCCTAGCTCTACTTGATACTTCTTTTCAAAAATGTGGAGAAAT
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Sequence=3495;DNA;Homo sapiens

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Sequence=3496;DNA;Homo sapiens

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Sequence=3497;DNA;Homo sapiens

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Sequence=3498;DNA;Homo sapiens

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AGACGTGTATTGGAATCTCTGACTAGGTCAGAATACGTTCTTAAGTTATATTCTCAATAC
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Sequence=3500;DNA;Homo sapiens

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TABLE 2

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CGGCTATGGCNAACAGGAACTGGATGCCAACTCTGCCCTTATGGAATTGGACAAAGGCCT
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AGTTGGAAATAATTTNCTGAGGCTATGTGTTCTTAAAGTTACCCAACAAAGTGAGAAACA
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Sequence=3501;DNA;Homo sapiens
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ACAAGACGCCACTTCACTCCCGCGGGGACGGTGTCAGTAAAAACAGGTGAGAACCAGTTT
GGGTGAGGATGTGAAGAAATGAAGCCTGAGACTGCGGGTGGCATGGAAGCTGCTGCCGCC
ACTTCAGAAAACAGTCTGACGGTTTTTCAAACAGTTAAGCAGAGTGAACCCAGTGCCCAC
TTGGGGCAGGGGAAGGATGAGCATGTTCCATATGCACACAATGGACTATTACCCTGCGAG
AAGGAACGAGCTATTGATATTGATACTCANAACGTCAGCGATGAATACTATAAACATCCT
GCTGTCTGAATACAGCCAGATCAGAAGAAGGCCTACTGTAGAGTCCATTTGTAGAAAGTT
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TABLE 2

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TABLE 2

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TABLE 2
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TABLE 2

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TABLE 2

533/3461

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Sequence=3535;DNA;Homo sapiens
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ACCCTTTTNATAGCCTTTTCTTTTTTTAGAATAAAAATGTTTGGAAAACTAGACTCCTGT
TTCTCCAGATTAGAAATGAAATTTGATCCTGTGGTGGCAGTTTTTCTCTCTCTCATCATT
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Sequence=3536;DNA;Homo sapiens
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Sequence=3537;DNA;Homo sapiens
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CGNTGTTTTGGATTTCATT

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TABLE 2

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Sequence=3565;DNA;Homo sapiens

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TABLE 2

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Sequence=3568;DNA;Homo sapiens

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CATGGCATTCCTTCTGCCTGGAATATTCTTCCTCCAACTCTCTCCACCCATCTTGAATGC
CCCTGTGACTGTTCTAGTCCCCAGGTGCCATGTCTAATTCATATCTGGTGAGCACATAGC
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AGGA

Sequence=3569;DNA;Homo sapiens

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GCAAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCTTA
TTCTCTACACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAAACTCAATGCTTAAACT
ATAGCTTGATGTGAAAAAGTAGAGACAAAATTTGCCCATGCTACATCAAAGTGTAAGAAC
TGCCATCTTAAGCTGGGAAACCTGAAAATCATGGCAAGTATAAAATCACTTTTTAGTAAT
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Sequence=3570;DNA;Homo sapiens

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TGGTGCATAAAAAGGATAAAAAATTCCAAATGTATGGTGTGTAAGAAGATCTTCATGTTA
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Sequence=3571;DNA;Homo sapiens

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TABLE 2

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ACATGTTCTCACAACTGGGCTTCAGGCAAAGATTCAAGAAGCTAAAGAGAAAGTCCAGAT
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TAATGTAACTGAGGACATAAAGATGTCTTTAGAAGAAAAGAGTAGAGATGTCTGTGCCAA
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TCCGCATCAAGATGGGACCAAATACTCTAATAAACCCACACCCAGTTAGCCTCAGGGAAT
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TGGA

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Sequence=3576;DNA;Homo sapiens
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Sequence=3577;DNA;Homo sapiens
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ACCCTTTTAATAGCTTTTCTTTTTTTAGAATAAAAATGTTTGGAAAACTAGACTCCTGTTT
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TABLE 2
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Sequence=3580;DNA;Homo sapiens
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Sequence=3583;DNA;Homo sapiens
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TABLE 2
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Sequence=3584;DNA;Homo sapiens
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TABLE 2

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Sequence=3591;DNA;Homo sapiens
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ATCAAGAGGGCTTTA

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TABLE 2

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Sequence=3598;DNA;Homo sapiens

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Sequence=3600;DNA;Homo sapiens

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TABLE 2

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Sequence=3602;DNA;Homo sapiens
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Sequence=3603;DNA;Homo sapiens
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CATTTTGCCGACAAGGTTTAGAGAGATTGAATCACCTGCTTAGACCCACACACCCAGTAA
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Sequence=3604;DNA;Homo sapiens
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CCCC

TABLE 2

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Sequence=3609;DNA;Homo sapiens
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Sequence=3613;DNA;Homo sapiens
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Sequence=3615;DNA;Homo sapiens

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CAAATCTTAGCAAACAATGTGTAAAGAGGGCATCTATTATTAGAAGAATTATTGACTACC
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Sequence=3620;DNA;Homo sapiens

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TABLE 2

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Sequence=3621;DNA;Homo sapiens
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TABLE 2

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Sequence=3629;DNA;Homo sapiens

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Sequence=3630;DNA;Homo sapiens

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Sequence=3633;DNA;Homo sapiens

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TABLE 2
550/3461

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CAGGTGAGTCAAACATTACCAGCCGCATCAAACAGTGGAAGTGAAATGGCACCATCTANC
CCACCTGGTGAAATCCAAAGCGAGAACTTAAAGGGAGTAAGGATGATTCACAAAATGCGG
TCGGGACACAAGAAAAGTGAGTTTGGAAGGACAGTGAAGAGAGAAAAAAGAATAAGGAAN
CCACCAAAATTTCAACTCAAAGATACATTTTAAACTGCATGGTATGGCCCACTGTCAATA
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GGAAGG
Sequence=3640;DNA;Homo sapiens
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TABLE 2
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ATTGATGGTGTCTTCCAGTGTGTATCAGCCAGATGGCAGTGTGTTACAGTTCCAGGAAAA
CTCGTTCACATCTTCCGTAAGATCAAGAAGGCTCTGGCATCAGATAAGATCAAATGTTGT
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GAAAAGAATGCAGCATGTGCAAATTCTTAC
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TABLE 2

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Sequence=3649;DNA;Homo sapiens

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CCAACCAANAAANAATTAAATTTTTTNACCCAAGGGAAGGTTTTTTTTTCCCAATTGGGG
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Sequence=3650;DNA;Homo sapiens

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TABLE 2

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ACCAGCCTGGGCAACATAGTGAGAACTTATTTCTACAAAAATAAAAAATAAAAAAATTAG
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CAGATCACTTGAGGTCAGGAGTTTGAGACTAGCCTGGCCAACATGGTGAAACCCTGAGGC
AGGAGAATCACTTGAACGCGGGAGACAGGGGTTGCAGTAAGCCAAGATTGCGCCATTTCA
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TTAAGTACCTGCCCG

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Sequence=3657;DNA;Homo sapiens

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Sequence=3658;DNA;Homo sapiens

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Sequence=3660;DNA;Homo sapiens

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TABLE 2

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Sequence=3661;DNA;Homo sapiens
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TABLE 2

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Sequence=3670;DNA;Homo sapiens

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Sequence=3671;DNA;Homo sapiens

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Sequence=3672;DNA;Homo sapiens

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Sequence=3673;DNA;Homo sapiens

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Sequence=3674;DNA;Homo sapiens

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TABLE 2

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Sequence=3675;DNA;Homo sapiens
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Sequence=3678;DNA;Homo sapiens
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Sequence=3679;DNA;Homo sapiens
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TTATGGANAANAATAATGCAAGTAAAAGTTCACCTTCCTNTAGGCCATTCCACAGTCTGT
TCCGAGTCTTTTTCCATGCCCTNTTTTNTGGGCTGNCCAGCTCAAACTGGGAGGCANTTG
GGTCTGTTGCAAAGTCCCTTCCTTATTCAGGGTTGGTTCCCANAGCTCCAANATCTAATT
ATCCACTANTTAAACTGCTGCCTGCATTGCTGAGCTCTTCTTCTTGATTAATTAAAGAA
Sequence=3717;DNA;Homo sapiens
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TCAAGGAAATTGCAGCCACTTTATCCAGATCTTGATTAAATCTTGCAAGTAGACTCACTT
GGTGATACTTCTGAAATGTGGTGGGTTCATGATTGATTTTGGATTCTGTGGTGTTTCCAG
CTTTGTCTCTCAATTTGATGGTAATGTCCCCTCTTCTTACATTCTTGTTCCATGTTATAA

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TATCCACAAAGTAATGATACATGCAG
Sequence=3718;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATTGACTACAGACTGAGTAATCTGA
GTTACTTCGGAATCCAGGAGGAAAAAACATACTTTAGTAGGATGATGATGGTAAAGACAA
GTTGTGATTTTGAAGTTCAGGTGGAAATATGAGATACAAGAACAGGATTAAGATAGAGGT
TGGTGATACCTAGTCCTCTCAGCTGTTAGTTCATGAGATAAGAAACTATGCCAATCAGGT
TGACTGTTGTCAGAAGCTAGCACAGTGCCAGATATAGAGTGGGAACTGACT
Sequence=3719;DNA;Homo sapiens
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TAAAGAGTATGAGTCTCCACATTTCTTCCTTCCATAAATTAAGGCTTAGTTATAACCACA
ACATACTGTATTTCTTAGAATACGACATCACTATTTTATACATTACTAAAAAATTGAAAA
TTCTACTAAACTATGAAGCAATGTTTTATCACTTTGAATTTTAACTTTCTACATTATTTT
AAAAGCTTTTTAGGTATAACCAAATAAAGGATTTTATCATATATTACACTTNGGATACAT
GTAAA
Sequence=3720;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACATCTTTTGCCAGTTTCCAAATTTGTGTTGAGTT
CTATGACCAACATTTTACAGAAACATTGTGTGAGACAGAAAATTTTAGGGTATTATTAAA
TTAAGGCATCATTTCCTAACTTTACTATTGAAATAAATTATTATATTCACAATACACTTT
TATATTTAGGTATACATCTTAAAATCTCTTAGCTTAGTGGGCCCGCTTGTTCAACTTGAC
CTTCATCAACCAATGCTATCTTAAGATAATAAAAAGAAGAGGCATTGAATACATTAGAGA
AAAAAGAATTGATTTATTCCAACTCAGGGTTGGAACTATGCCTCTTAACTCTTAATTAAA
AAATACTTCAATGAATAATAAAGACAATCCTT
Sequence=3721;DNA;Homo sapiens
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AGGTCTCTATTACTCCTCGGTTCCCAGACATCTTCCTCTTTGTTCCCTCTGTTTTCATAG
AGAAAGTCTATTCCTCTCCACGAGCTCATTTTCTTTCCTGGGACAGAGTCTGGGAAACCC
TTTCTTCACTCTGTTTCTCTCCCCTTTTTATACAATTATTCAGGACTCAGCTCAGACTTT
GCTGGGGTTGCTGTGTCAGTTACTCTCAGTGTAAACTTGGGAAAGTCATTTATACTCATG
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Sequence=3722;DNA;Homo sapiens
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AAATCCTGTCATTTGCAGCAATATGGCAACATAGATGAAATTGGAGGTCACTTTATTAAG
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AATTGTTTTTTACTGACATTGATATCATAGAAGCAGAGAGTATTACCACAGACACTGCGG
AGGGGCGACACGGTATGAGGGAAGGACAAGGAGAAGTTGGTCAACAGGTACCTGCCCGGG
CGGCCGCTCGAAAGGGCGAATTCC
Sequence=3723;DNA;Homo sapiens
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GAAGGACATTTAAAATTAAATGGTTTTTTCAATTTTTAAATCAAGTTCTTAGTTTGCATG
TCTTGCATAACATCCTTCTATTATTTCTGTATGGAGTGAGGGATGGAATCAGTGTGAGCA
TGTATTAACCTCATGGCTAAAAGTAGGAAAGAAAAAGATTTCCTCATACTGTTATGTATG
TGTCTAGTACCTGCCCGGGCGGCCGCTCGAAAGGG
Sequence=3724;DNA;Homo sapiens
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AGAAGTAGAATAAAAAATGAACCCAAGTTTGGGGGTTAATCAATTGCATGACTGATGATA
CAACTGTCCTAAATGGAGAAGATAATGAAGAAACAGGTCTGGTAGAAATAAAGATGGGTT
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GTTAGAGCTAAAGAGAACCAGAAAGTATTCCCCAATTTTCTTCCTAACTCTATTTTTGAC
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GTTTTTCATAAAGACCAGGTCTTGCTACGTCGCTCAGGTTTGGACTTGAACCACTGGGTT
TAAAGCCTTCCTCCGCTCANCCTTCTGAGTAGCTTGGACTACAGGCACACACCACCCACA
CCCAGCCAGATATTTTTTAAAATATGTAAAAATATAACTTTGTTACATATTTACCCAGTG
CTTTTAAAATGCTTTTTTGAAAATT

Sequence=3725;DNA;Homo sapiens
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TTTGGTTGATTTCTAAGCCTAAGTTATGTTAATCCTTGGCTCACTGATCCTTTTAATAAT
CT

Sequence=3726;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGAGAGAAATAATTCAGTTAAGGATTTCTA
CAGTTAGTAACCACATATTCATTTTTTATCGCAAAACACAAGTTTGGAGGTTGGCCCTAT
AGAGCTACTTCAGCTATTCTTGAGGAACTCATTATGCTCCAATATTCCTGTTCCATTGTC
CAGTGTGGCTTCTGGACTCATGGTCATAGATGGCTGCCCTACTTTCTGACCAGCATACTT
CTTCCAGGCAAGAGGAAGCCTGAAAGGAGAAGGGCGTGTGGCTGGAAGGTGTGTACCTCG
GCCCGCGACCACGCTAAGGG

Sequence=3727;DNA;Homo sapiens
TTTTTTTTTTTTTTTTTTTTTTTTGGTATCTGTTCCAAGTTTTTTTATTGTTAAATTGAA
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AATACTTGGTANAATTATTCTTGNCATAAAGTGATTGTCAGTAAATGTTCACTGTTATTA
CTATTTTTCTTGTATTGGGATTTTAGAATCTAAGTGGCTTTCAGTATTTTACTTTGAGGC
ATTNGTAGTCCCATTTNGTTTCTAGTTT

Sequence=3728;DNA;Homo sapiens
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CATTAAATATGCTTCCACAGTAAAATCTGAAAAACTGATTTGTGATTGAAAGCTGCCTTT
CTATTTACTTGAGTCTTGTACTGGGCTCTGTGTAAGTGTCGTTGGGGTAGGACCTATATT
TTAATACTGTTCCTAACATTTCATTTTACTAGCGAGAAATCTTTGATTTCATTTTATTCT
TTGTAATTCTAGACACTAGGTTGTAAGTTTANCCATAACCCGATGTTNTTTAAAAAGGGG
ATATATTTTCTTTGCACAGTTGTTCAAAAAAAGAGACAAGGTTTCAAGTCCTCAATGCTG
GCCTTTGTTTTACAAGGTACCTGCCCAGG

Sequence=3729;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACCATTATCCCAGTGGCAGAGATACACAGAAAGCC
AAGGCTCAGAGGCAGTAAGTCATGGGTCCGAGGCCTCTTGCTGATGACAAAACTGGAATC
TGAACCCACGTCAGGCTTACATTTACACATACATGTATACAAATGTACTTTTTTTTTTTT
TTTTTTTTTGGCATATTTAGGTTATTTATTAATGAAAATATATGACATTTTCAGGAATAC
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ACAAAAACTGT

Sequence=3730;DNA;Homo sapiens
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AATTTTGTGTCTAATGTAAGATGGATCTAATTTTTTTAAAGTTAAACTGTGTAAACACAA
TTTATTAAATATTCTACTCTTTCCCTACTGATCTGAAACACTACATCAGATATTTACAGT
TTCCATAAACACATATGTGGCTCGTT

Sequence=3731;DNA;Homo sapiens
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TATATTTTTAGCTACCATTTTGATACTGAAATCTGGATAAAAAATTAGGCTTCATGTTTT
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GATGAGAAGCCAGTGTTTCAAGTGGTTTCCTGCCAGGAACCTCAATTTTCTAAGCCAAAA
TATGTTTGACATTAACCC

Sequence=3732;DNA;Homo sapiens
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ATGTCATCCTTGGTGCTTAAATGAAAACAAAAACATCCTAAATGCTACTTAAAAGCAAAA
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GAGAAAAATCATTTGGCAAGTTCTTT

Sequence=3733;DNA;Homo sapiens

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GATTGCTGCAAGGCATTCTNGTCAGAATTTCCCATTAAATTCAGGAAAANCACCTTTTGA
ACCAGGGCCAATTTGNAGCCGAGTGGANTTGGGTGGGCTTTAGNNGAAGAAAAACCGCAG
GTTTCTTGCCAAGCNCTGGAGGGAAGAAAAGAAGACTTGTGGGCATTACCACCGAAAGCA
GNGCNCATGCCGGTTTGCCCCGGCCTGGGTATCCTGGGAGGCACCGNCAANACCCCGCTT
TTTTAAAAGGGTATTCCCATCNATCCCCACCGTTGGCCAAAAGGGACCTAAGGTTTATTG
CCTCCAAGGTNTTTTTAACCCANANAAGGNAAACCAATTNCCCTTTTTATTANCCCAANA
AGGAAGGCCAAGCCTTCTTTGGGGATTAAGGGGANTGGTNGTTATTGGAACTT

Sequence=3734;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACNCGGGGTTGCAAANTTCTTCANTAGCNTTAN
TTNGANTTTATATGTAAANGCCATTNAGTGGTTGAGATGGATATGAATTTTTTGCAAAGA
GGCAGTTGGTCACTCTGTTTTCTGCGCCCAATTATTGCGGAGAGTTTGACAATGCANGTG
CCATGATGAGTGTGGATGAAACACTAATGTGTTCTTTNCANATTTTAAAGCCTGCAGAGA
AAAAGAAGCCAAATG

Sequence=3735;DNA;Homo sapiens

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GAAGAATTGACAACAGGAAAGTTGTTTTATAGAGGAGGGAATAAGGGCTCCGTAACATGA
CATCATAATTTCTAGACAAACGCTTAACTTCCCTGAAGCAGATTCCGCCGAGAGGGATTG
GGCCATGTCGGAAAGAGACCAGTTTGCCTGTAATATTTCTTCCTTTTCTCTAATCCTGGG
CTCCCTTCAGGTAGAAACCCCAGATCACCATCAGGAACCCAGAGAATGGAGAAAAAAGTA
GAAAAGAT

Sequence=3736;DNA;Homo sapiens

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CTCTTTTTCTCTGTAACTCAGGGCCTAGGACTGTGCCTGGCACATAGCAGACACTTGATA
CATATTTGTTAAATAAATGGGTAGCTGGAACATATGCTCCATGAGGAAAATGAATGTATT
TGCATGTTGTTAAGTTAGGAATCTGGCCCTGGGAGTCAGAATTGCAGTGTTTGAGTCAGG
CTGCATTATTTCCTAGCTGTGAGAGCTCTCTAAATCTATTCCCTCACTTGCAAAGTGGAA
TGATATTAGAATCTGACTCATATTGTTACCGTGAGGATTAATCGACATAAATACCTGACA
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TAAAAATTTGGTTAAATAGGAAAAAATGAATCAATGAAGTGTAACTTACCTGTATACCCA
AATATGTTTTGCTTCCCTCANTATACCATTTTGGTCAGGGATTCCANACCAAATAGTAAA
AAATTTTAAAGGNCCAACTTAAAAGTTAGTNGGGATTGANGTTTATTTAATTTGAAACTT
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Sequence=3737;DNA;Homo sapiens

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AGCTGCTTTAAAGTCTTTGTNAGATAATTCAAATACTGTGTCATNTCAGTGTTGGTGTNT
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GATTGCANTCCTTGGGCATTTTCAAATATTACATTTATAAAGGACTTCTGGGATCTTTAC
TTAAAATTTCCATGGGAANAAATGTTGCT

Sequence=3738;DNA;Homo sapiens

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AACATCTCTCATTGGCTTCCTGGCTTCTGCTGCAGTGAAAGCTAAGCTGTCAGCAGGGCT
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ACCAAGGATGAAAG

Sequence=3739;DNA;Homo sapiens
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GGTATCCCAGGGTGTTAGATTTCTGTTGTTTTTCCCTTATGTGGCACCGAAGTTGGCAAG
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GACCACNCTAAGGGCCGAATTCCAA

Sequence=3740;DNA;Homo sapiens
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AAGGAAATAAATAAATAATGTTATCCGAAAAAAAAAAA

Sequence=3741;DNA;Homo sapiens
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GCAGCTCATAGCGGCACAAGGGACAGGAATTTGTCTTGCTTAGCCAGGGCAGAATGCAGC
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CCGCGTACTCAAAATGGGATTAAGCCCTTCCTGAGGGTGGTGCCCACCTAGTAAAATCCC
CCTTATTACCTTACCTGTTCCCCAAAGACATTCAAAATGTAATTAAGACCAACTACTATG
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Sequence=3743;DNA;Homo sapiens
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CGCATATGGGGCCAAGTTCCACATATTTGGCAACCAGACCAGCATTCCANGACAACACCA
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Sequence=3744;DNA;Homo sapiens
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CTTTCTTTTTTAAAAAAAATAAAATTCTTANTAGGGAAAAAATAGGAACAGGTCCCAAAA
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TABLE 2

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AGCAGATGAGATGAAATTAAAGCTCTTCAACTCCTAAAGGCCCAGAGACTATCACAAAAG
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Sequence=3748;DNA;Homo sapiens
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ACACTGCTGACTTCCTCCTGCCTAGATATACAGAGGGTAATAACAATAAATAATCACCCC
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TCTAACATGGTGTCTTAACACATAGAAGATGCTCAGTAATTACTTGTTAAATGAATGGAT
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TCTTATTTTTAAAA
Sequence=3750;DNA;Homo sapiens

TABLE 2

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CCCTTAGCGTGGTCGCAGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGCACA
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CTAAAATCAACAGAGTTTANACTTCAGTAGTCANAATAAAATACTTCTGAAATATTCCAG
ATATCGTATAAAACCACAGATAAATATGCAAAGAAGTCATTAAGCATATTTTATTATAAT
TAATGAATATGACTTTTAAAGCTATATGTATTCTCCATGTTAAAAACTTCCTTAGTGAAT
AAGCCCAGGGCTGCCCATAA

Sequence=3751;DNA;Homo sapiens

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GATGTCACCTATGTGACCAGTTCCCACTGATGACCCTTACACTGAAAACCGGCTTACACA
GGAGTGGTCTATGATCTATGATGTATTAACATGGACATTTCCTCTTCCATTATGAATTTG
TAAAGTTTTGATTTCCATAATTCTTTTTTTAATCAGTGAAAACATAAAATAAGGTTCTGG
GAGAGAGATACAGGAAGCCAA

Sequence=3752;DNA;Homo sapiens

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AAGAGAGGATGTTCTAGAGGCATGGTTGAAATTGAATTTGTAAGTGTTAAAAGTGCTAAA
ACTCCTTTTTCCTATAAAATT

Sequence=3753;DNA;Homo sapiens

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Sequence=3754;DNA;Homo sapiens

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TGATGAGGATATTATTCTAAAAAGGGTAGTCAAGAAGGTTCCCTTGGAAGATAAAAGGGA
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Sequence=3755;DNA;Homo sapiens

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Sequence=3756;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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Sequence=3763;DNA;Homo sapiens
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TABLE 2
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Sequence=3769;DNA;Homo sapiens
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TABLE 2

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TABLE 2

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Sequence=3783;DNA;Homo sapiens

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TABLE 2

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Sequence=3788;DNA;Homo sapiens

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TGCCCATTTACAGAATTTAATACATGATTTAATATTTTAATGATAATTATAATGATTTCA
GATACCTCTGTTTGCTCCATGGATGTGTTATTTATCATTCATGACTTGCTTCTNAAATTG
AGAGCNCATTACTGTTTGTCATANAACAAGTCCATATAACATGCAAAATAATATTTTTTA
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Sequence=3789;DNA;Homo sapiens

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CATTTTGTAATATTCATATGACACTTAAATCTATGTATATGTAGGTCTAGTTCTAACATG
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Sequence=3790;DNA;Homo sapiens

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Sequence=3791;DNA;Homo sapiens

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TABLE 2

574/3461

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Sequence=3796;DNA;Homo sapiens
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TABLE 2

575/3461

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TABLE 2

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Sequence=3808;DNA;Homo sapiens
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TABLE 2

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Sequence=3820;DNA;Homo sapiens

TABLE 2

578/3461

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Sequence=3825;DNA;Homo sapiens

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Sequence=3826;DNA;Homo sapiens

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TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=3846;DNA;Homo sapiens
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TABLE 2

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TABLE 2

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Sequence=3859;DNA;Homo sapiens

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Sequence=3860;DNA;Homo sapiens

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TCGCCCCGATAGTTTGAGAGTAAATGGGTTACCAGAGGAAGAGCTAAGCAACATGGCCAA
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Sequence=3861;DNA;Homo sapiens

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Sequence=3862;DNA;Homo sapiens

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AGTGCATTTGGGATCAAACTTAGCTCTTAGATCAGCAAACCTGACTTGCTTCTACTTTTG
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Sequence=3864;DNA;Homo sapiens

TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=3884;DNA;Homo sapiens
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Sequence=3885;DNA;Homo sapiens
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TABLE 2

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Sequence=3895;DNA;Homo sapiens

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Sequence=3896;DNA;Homo sapiens

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TABLE 2
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Sequence=3897;DNA;Homo sapiens
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TABLE 2
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GAAGCCAGCTACCACTGAATCTCGGTATCAGTTTTTTTTAAAGTTTANAGTTAGAAGGGG
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Sequence=3903;DNA;Homo sapiens
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Sequence=3905;DNA;Homo sapiens
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Sequence=3906;DNA;Homo sapiens
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AACATGGCAACCACCAAACTCCCTTAAAAACAAACATTGGTGACATGGCCAATTAAGTAT
CAGTGAGCCTCCTATCTGGGACTTATCTGTTCCTATTGTTTCAAAACCATTTCATGTACC
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Sequence=3908;DNA;Homo sapiens

TABLE 2
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Sequence=3909;DNA;Homo sapiens
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Sequence=3910;DNA;Homo sapiens
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Sequence=3914;DNA;Homo sapiens
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TABLE 2

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Sequence=3915;DNA;Homo sapiens
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Sequence=3917;DNA;Homo sapiens
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Sequence=3921;DNA;Homo sapiens

TABLE 2

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Sequence=3922;DNA;Homo sapiens

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Sequence=3923;DNA;Homo sapiens

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Sequence=3924;DNA;Homo sapiens

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CAAA

Sequence=3925;DNA;Homo sapiens

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Sequence=3926;DNA;Homo sapiens

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Sequence=3927;DNA;Homo sapiens

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TABLE 2
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Sequence=3928;DNA;Homo sapiens
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
601/3461

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TABLE 2
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TABLE 2
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TABLE 2
605/3461

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TABLE 2
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TABLE 2
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Sequence=4032;DNA;Homo sapiens
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ACCAAATGAGATAGGGATAATTATTTTGGCC
Sequence=4033;DNA;Homo sapiens
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ATACCATGTTGGAGATGATGGAGGAGAACAACTTATGTTAATTGTCTTTAAAATGCCTTA
ACTTCAATTTTTGGGAAATTTAGCATATTTCAAACAGAAATAAGATGTAAATATATATTC
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CACCAATATCAGAGCCCACACCAATAACTGAGCAGGCAGCTGCCAGTGTGCAGCCCTCAC
CACCAGAACTTCCACCTACAATATGCTGTAAATCATATGGGTTGTTTGATCGGCCATAGA
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Sequence=4035;DNA;Homo sapiens
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TCTGCAGAAAATCAGACTATGGGATCACTTTGTTTGTGCATTGGGAATGACATTCTTTCC
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ATAAAACCGGGGAANA
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CTCCACATTCTGACCATAATACGTGCTTTCTAAGTTCCACCATGCCATGATCTCCTGCTT
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ATGGATCAAGGTNAAAATGACCCATCATCTACTTTCTCCAAAGAAAACCTAATTTTCTCA
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CTTTTCATGGCCC

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TTA

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AATTC

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ATTACA

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TABLE 2
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AAGTNGGAGAAAATAATTNTATAAATGATCCAAAAATAGGAAAGCATGAATAACCATCTC
AACCACCATTTTTAAAAAAAAANCATGNTTCCAANAAAATTACNAGCCATAAACCCCTTT
CCAATACTTTACTTTTGGTGGAACCTTAAACCTTCCAAAAAACCTTGGNTTTAATTAANT
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Sequence=4069;DNA;Homo sapiens
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTCGAGCGGCCCGCCCGGGCAGGTAC
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GACAACTCTATCAGAAGCCATCATTTCTAGGGATGACATTATCATTATANTTCAATAACA
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Sequence=4103;DNA;Homo sapiens
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Sequence=4104;DNA;Homo sapiens
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Sequence=4105;DNA;Homo sapiens
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TABLE 2

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Sequence=4108;DNA;Homo sapiens

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Sequence=4110;DNA;Homo sapiens

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TABLE 2
625/3461

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TABLE 2
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TABLE 2

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TABLE 2
628/3461

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GCCAGTTGTTAAATTGGTTTGGAAGNCAAAGTTTTACCTTANCCCTTAAGGGNCCCTTTT
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Sequence=4137;DNA;Homo sapiens

TABLE 2

629/3461

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TGGAGGACTATTTCAAACAGCTTGAATCACATTTGTTNAATGAAGAATCTGTATTAAATC
AGGCCGTTGAATGACCCTGNAAAACTTACTGGCCTACGAANGAGAANGCCGAACCCTTCA
NCCCGNACAGNAGAAACAGTTNCTAAACTTTTCCTTTCAGCATTCCTCTGGAGATGTGGG
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Sequence=4138;DNA;Homo sapiens

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GGTTATATCTGCTCGGTTATATAGAGTTTTTTCTGTCTTTATTATCTCTTAAGTGCATTG
TCTGTGATCCACATCACATATTTGTTTGAGGCTTATTCACTAATAAAACCATTTTTCTTT
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AATTACCCGCCGTACCCT

Sequence=4139;DNA;Homo sapiens

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CTTGTAAAATACGTAGGATGTATACCACTGATTAAATAAATTAAAAAACTCCATTCCCCT
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Sequence=4140;DNA;Homo sapiens

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Sequence=4141;DNA;Homo sapiens

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GCATGTGAGCAGATGAGTTTTCTCCTTGAGCTGGATGTCTCTTTGAAAACTATCAGTCAC
CTAGAAAATATATTTGTCCTCATATGGGAAACTAGGTCTAGGAAAGCAGGGTGTAGGGAG
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Sequence=4142;DNA;Homo sapiens

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CCAANGCCCAAAAATT

TABLE 2

630/3461

Sequence=4143;DNA;Homo sapiens
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ACTT
Sequence=4144;DNA;Homo sapiens
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AGTNGTTACTTTAAAAATT
Sequence=4145;DNA;Homo sapiens
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GCAAAAAAAAAAAAAAAAA
Sequence=4146;DNA;Homo sapiens
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TABLE 2
631/3461

Sequence=4148;DNA;Homo sapiens
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Sequence=4149;DNA;Homo sapiens
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TABLE 2

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Sequence=4154;DNA;Homo sapiens
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TABLE 2
633/3461

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TABLE 2

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AAA

Sequence=4166;DNA;Homo sapiens
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TCACCTTTTTATCTGTAGTGCTCTGCTTAAGAACAAAGGAAAAAACAGCTTCTTGCATGA
TTCAGCTTTTAGCTTAATTTTTTTCCTTTAGGCATAGTGAATTGGGGTCCCAGGTTTTTA
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CATCCTAAACTCCTGCTAACCACATGTAGTCTCTCTGTTCATTTCCCTATTTATATCAGC
ATTTCCTTCTTGTTGCCAACTTCAGTGCCACATAAGGGAAAAACAACAGAAATCTAACAC
CCTGGGATACCTTCAGAGAAAACAGAAAAGACACTGCAGACTTCTTTTTGGGAGAAACTC
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GTTTTTT

Sequence=4168;DNA;Homo sapiens
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AACACAGAAATCTCAGAGATGCTGTCTTCTTCCTAAACTTTAATATTTAATTCTGATTGT
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TCAAAATATTAGAAATGCAGGATATTGCCTGATGACTTGTCAATTACATGATAAATTATC
TTAACTATAGAATTAATATGCTGGATTAAGAAATGACCCTTGTTTATGCCTAAGCTTCTA
GGGCAAGAAAAAAATGATCAGAAGGAGGAAGGTAGTTCCCCTCCACCTCAAGAGAAACCC
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GGATGAACATAAGAAAAGACCCAGA

Sequence=4169;DNA;Homo sapiens
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AAATGCACCTCCACCTCCACAAAAAAGTATGCTTTTTAGAAATGAAAATAACCACTACCT
ACTCAGAATCTTTAGATAAAAAATGTTGTCAGGCCACAAGCAGAGGGGCTTCCCTGCCTC
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CTTTTGGGAGGCTACCCACACCCCAGATTTCTAGTCAAGGGGGAACCANAGACCATNCCC
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Sequence=4170;DNA;Homo sapiens
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TABLE 2
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TGGNG

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CTACCATTGAAAGCAGAAAGCAGTAGTGACACAGCTTTCCCTTCAAAGAGCCATTGAGAA
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TGAATTTTCATAGACAATTGCAACAGTTTAGATGCCTTTTGAAAGGAATGCAATGAAGAT
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Sequence=4172;DNA;Homo sapiens
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CCAATCCCAGTAAAAGACCTTTTAGTTATACAGTTTTTTTAAAAACTATAGTTTAAGTTA
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CTTTGTCTTTTTCA

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TGAGTAATGCTTTCCCCAGAGAACTGCAGAAAATGATCCTGCTGAGCTACAGGGTTTCCC
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TAAAAAAAATAAATAAA

Sequence=4174;DNA;Homo sapiens
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TABLE 2
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GGC

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CAAGGAGTAATGAGGGTGGCCTGGATGTTAATGCANAGGGAGGGAGAGGAGCGGAAGGTG
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Sequence=4181;DNA;Homo sapiens

TABLE 2

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Sequence=4182;DNA;Homo sapiens
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Sequence=4186;DNA;Homo sapiens

TABLE 2

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Sequence=4190;DNA;Homo sapiens

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TABLE 2

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Sequence=4192;DNA;Homo sapiens
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Sequence=4193;DNA;Homo sapiens
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CCCGGTA

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TABLE 2
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TABLE 2

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Sequence=4228;DNA;Homo sapiens
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Sequence=4229;DNA;Homo sapiens
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Sequence=4231;DNA;Homo sapiens
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TABLE 2

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TABLE 2
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TABLE 2

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Sequence=4248;DNA;Homo sapiens

TABLE 2

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TABLE 2

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Sequence=4259;DNA;Homo sapiens

TABLE 2

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TABLE 2
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TABLE 2

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Sequence=4270;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2
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Sequence=4293;DNA;Homo sapiens
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TABLE 2
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TAAAATCAGGTACAAGAACCAGTTGGCAGTATGTAAATTCAGAGCTTTGTGGAACAGAGT
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TABLE 2

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Sequence=4301;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

661/3461

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TABLE 2
662/3461

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Sequence=4325;DNA;Homo sapiens
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TABLE 2

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TABLE 2
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TABLE 2

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TABLE 2

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CTGTCCAATATATTTATTCTGTTTTCACTGGTGCCTCCTCCTTTGCATAACCTGTGGACA
CTAGTCTTTTCCAGGTTTCTACTCTAAATTATCTTTGCTTTTCTTCTATATCATTCTTTT
TGAGTAAGTTCATCTACTCCTATTCATTCATTTGCAAACTTAACAAAACTATTTATTGAG
TGTCTACAATGTGCTAACACCATTCTAGATGCTGGGAATGGGGTGGTAACAAAACAAAGT
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Sequence=4363;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCACCTGAAGACCCTCACACTCAACTTCACCA
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AGGGGGTCCTTCAGCACCTGCTCAGACCCTTGTTCCAGAAGAGCAGCATGGGCCCCTTCT
ACTCGGGTTGCCAACCGATCTCCCTCAGGCCTGAGAAGGATGGGGCAGCCACTGGTGTGG
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Sequence=4364;DNA;Homo sapiens
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TABLE 2

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ACCAAAATANTCTCAATCTCCTAACCTTATAATCCACCCATCTTNACCTCCCAAAAACCA
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TCCCAACNTTTTCAAAAAAAACCCTTCTTAAAAATTTTAAATTTCCNATTTTTTTTTNAT
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Sequence=4365;DNA;Homo sapiens

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TAATCAAGTCTTGTCCCTACAAGTCCCTGATGCAGTATGTTTATTTGTGATGTTTAAAGA
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GGTGGGTGGATCACCTGANGTTGGGAAGTTCGAAGACCAGCCTGACAAAACATAGTGAAA
CCCCGTCTCTACTAAAAATACAAAAAT

Sequence=4366;DNA;Homo sapiens

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Sequence=4367;DNA;Homo sapiens

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AAAAATTATCAGAGAATTAGAAAATGTTACTGGAAAGAAAACCATTAAAAAAGTGTTAGA
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CAAAGATGGTCTTAAAGGTGATTGGGGAAAAAAATGCCAGTTTATGGATAAAGTGAACNG
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TABLE 2

669/3461

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TABLE 2
670/3461

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Sequence=4384;DNA;Homo sapiens
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TABLE 2
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TABLE 2

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Sequence=4396;DNA;Homo sapiens

TABLE 2

673/3461

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Sequence=4397;DNA;Homo sapiens

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Sequence=4398;DNA;Homo sapiens

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CAACGGGACTAGTGGGCACAGCTTGTCAGGCATGTTTTTAATTAGCATTTATGTAACTTT
CCTATTTCTGGGCATCCTTGGGAAGACACATTTAATTTAAGAAATTAAAAAGGAAGATTT
ATTTTTCCAAAACGCTTCCTGACCTTCACAGAATAAAAACCAATGAACCCGAGCTTCGGA
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GCTCAGCCTTCCACTAACAGAAAAGTCTACGTCAGTNTTTACTTAGAAAATTTATTTTA

Sequence=4399;DNA;Homo sapiens

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CCCAACACAGGTCTCTCAGTAGGGTAAAATCAAGATGTCAGCAAGGCTGTGCTTCTTTCT
GGAAGCTTTAGGGGAGAATTCATTCCCTTGGCTTTTCCATTTTATATAAACTGCCCACAT
TCCTCGGCTCATGGGCCCAGTGGGAAATGCTGGGAAGAGTNCTTCTCATGCTGTCGTTCC
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Sequence=4400;DNA;Homo sapiens

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Sequence=4401;DNA;Homo sapiens

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GAAAAAGGATACTGGTGAGATTATAAAAGATTAATATCAGTTCTCACTTCTTATAAGCCA
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Sequence=4402;DNA;Homo sapiens

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CACATTCCCTGCGGACGGCGCTCCCATCGGATACTGGAGGGACGCGACACTAGAGGCAGG
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Sequence=4403;DNA;Homo sapiens

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ACCAAATGCCTTTCCAGGCTGCCCTTCCAACACTCAGGAGAGCATCCAGATCCCTGGGCA
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TABLE 2

674/3461

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TABLE 2

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GCGAAAGAACTGAAGCTCACGTAGTCCACAACTTCCCCCAGTGTGGGGTGTGTGCCACCA
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CTCAATGGCAAAGAAAAA

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Sequence=4412;DNA;Homo sapiens

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ATTCAGTGTGTGGTGGAGGGCGACAAGGTGGGGACAGACTTGCTGGAGGAGGAGATCACC
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Sequence=4413;DNA;Homo sapiens

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CTTGACACTCAGATTTTGTTCATCAATGCGTTTCAAGAAGAAAAGATTTTTGATCAAAAG
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Sequence=4414;DNA;Homo sapiens

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Sequence=4415;DNA;Homo sapiens

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TGAATATTTTTANCCTACAAAATTCACTATNATCTTATGAGGAAATGAAGGTGTGANAGA
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Sequence=4416;DNA;Homo sapiens

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Sequence=4417;DNA;Homo sapiens

TABLE 2
676/3461

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TABLE 2
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Sequence=4423;DNA;Homo sapiens
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TABLE 2
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Sequence=4433;DNA;Homo sapiens
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TACTAATATTAATCT

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TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2

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CTTTTCCTTT
Sequence=4470;DNA;Homo sapiens
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ATGAATATTNTTAACNTACAGAATTCACTATGATCTTTATGAC
Sequence=4471;DNA;Homo sapiens
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CCAANATGGTCTCANTCCNCTGACCTTGTGATCCACCCACCTAGGCCTTCCAAAGTGCTG
GGATTACAGACGTGAGTCACCGCNCGCAGCCCGCTTTTGTGGTTTCAAAAGTTCTCACTT
GCTAATGTCATGTTAGAGATACAAATTTAAAGTATGCTAATATCANTGGAGAGAACAGAT
GTNTTAATCTATAAGACACTTATACATGCACTAAANAAAAGTTGACTACTATACTGAANT
CCCTTATAAAAAGGGAGTTGTTAAGGATAATGGAATGTGGATTGGGCTCTTTCANAGACT
CCATACAGGTNTATTTAATTANCAAAGG
Sequence=4472;DNA;Homo sapiens
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GCTTAATTAAATGGATAGATGTCTGTTCCCTTTGCTGGACGCCAAGAATACAAAAAAGAA
CAAGTGACAATTTTCTCCGTCTTAGGGAGAAGAGACAGCAGAAGTGTAAATGATCCCTAA
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TGGATGCTTCTTGGTAGTAGAGGCAGTGGCTTCCAGCCTTGGGGCTAAGGCTTGTAGGGT
GAATTGGAACTTTTCAGATGAGCAAGGCAAAGAAGGGACCTTCTAACATTCCTTGGATGG
AACATTTTTGACATTTTCC
Sequence=4473;DNA;Homo sapiens
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TTTAATTNGAAAAATTCATAGCTCACAAAAGTACCTCGGCCGCGACCACGCTAAGGG
Sequence=4474;DNA;Homo sapiens
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TACCGAAGTTCCTCCCCACGATGCAATGCCAGGTGGGATTGTACATCATTAATAGGTCCG
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TTACCTTTCCAAATACNGTGTATTNCATGTCCAAATGTGGCTGTTTGCCATAGGTGATGA
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Sequence=4475;DNA;Homo sapiens
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ATTTTTAAAAATTGCCTACTAGGTGAAACATTACAATAAAACTACCTGTGCTGAAATTTG
GGGGAAGTTTAGGTCCTTTAAAAAAACATATTAATCATTGACTACATCTATGATAAAAGT
GCTTATTTTGGTTTACTAAGATAATGCAGTTGGTGGAAATGATAAACGTTTTAAGTGTTA
ACATCCTTTGAATGCGTTGGATTTCAGAGAATAAACATTTTGTAAAAATCACTTGGTAAG
GATTATAAACTTAATTACTGCACTTAAAATGAAACATTACTTTTTTTAAACAATGTGTCA
CAAATGTANGTCTGTATTACTTGNATGCTTGGGTGACTTACTGGTAGTCCAGCTCTNAAA
ATTTAAANGGTGTAATTGAAATCAAGAAAAGAACCTTCTTTTAAAANAAAGCAAGTATAT
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TAA

Sequence=4476;DNA;Homo sapiens
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CTTTTGTTTTCTTTTCAAAAACAGATGAAAAAACCATCTACCTNCTCTTCAATGAGACTG
AGAATTTTACANTAACAANATCTTAAACCTGGTTAGCNTAATAACTTGCAGCTTNCTCAN
CCCCTGGTTTACAGATCCTGAATCAAGTTCNGTGGGAGGTTT

Sequence=4477;DNA;Homo sapiens
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TTGGTCATTTAAGTTTTCTTTTTGGCAAATTTCCTATGCATATTCTTATTTTTTCTGTTG
GATTGTCTTTTTTCTTATTCATTTAAGTTTGTTGTGGTGCCTTTCATTGAGCAAAAACTTT
AAATTTTAATGTAGCAAAAGATATATTTTTCTTTATAATTTGTATGTTTTATGACTTGTT
TAAGAAATTCTTCCTTAATGTCTCAACATATTCAATTTAATAATGTATCAGAAACTGTCC
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Sequence=4478;DNA;Homo sapiens
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TGCTCTGTCCCCCAGGCTGGAGGTCAGTGGCACAAATCTCAGCTCACTCTAACCTGCACC
TCCCGGGTTNAGGTGATTCTCATNTCAGCCTCCCAAGTAAGTGTGAACTGAGGGGCCGTT
GTGCCACCACCGCCTGGCTAGTTTTTTTGTATTTTTTAAGTAGAGACAGGGGTTTCACCA
TGTTTGGGCCAGGGCTGGGTCTCTGAACTCCTGGCCTCAGGTNGATCCACCCACCTTANC
CGCCCAAGGTGTTTGGGATTTGCANGCATTGAGCCACCATGCCCGGCCCNT

Sequence=4479;DNA;Homo sapiens
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CTTTCTTCTTCTTCCTCTTCACCATCTGGAAACTCCCACTGAGACTCGCCCGACTGTTCG
TTTACATAGAAATACCGTCTATGATCCCAAGTTTCAGATGTCCGGACTCCAAGTGCCANT
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GGTGAGGCATTCCACCGGGGCAATTTCCTACCCGGGAGTGCTCTTTG

Sequence=4480;DNA;Homo sapiens
CCCTTGAGCGGCCCGCCCGGGCAGGTACCAGGGCAAGTCAGACATCATGTCAGCACCCTT
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GTCAAAGGGGTCCACTTTTGGAGGTTCCTGTGTCACTTCTCCCCCTCCCAGATGTCTCCT
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GNNNNNNNNNNNNNNNNNNNNNNNNNNNCTAGTNGGATCCCGAGCTCGGTACCAAGCTTTG
GCGTAATCATGGTCATAAGCTGTTTCCTGT
Sequence=4481;DNA;Homo sapiens
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GAGATGCAAGCATGGACTCTGCAAAGCGGCGGCATCCCAAACTCCTGGCCAAAGCCCTTG
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ATAAGTTGGATCCTTATGACTATGAAATGATTGAAAGNTGTCTTGAAAGTTATTAGAACG
AAGCTNATGAAAAGATAACCAATATTAATATTAATCAGGCATTGAGTATTCTGAAACATT
TGAAAGGTCATACCCAAGAATTTCTTC
Sequence=4482;DNA;Homo sapiens
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TTTTCCGCCCCCCTTTTTACCCGAGGCCCGGGCCCCGCCCCC
Sequence=4483;DNA;Homo sapiens
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CAAAAGACAAACAGGATAGGGAGGGGGACTAGGGGCTTGTGAGTGGCAATAGCTGCAGCA
GCAGCCCTGGCAGGACAGCCTGTGGGTTACAGACCGCCCTCCTGTCAATGAAGTCAAGTC
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ACAGGCTGATGGTAAACACAAAGTTCTCTGAACCAAAGCCTTATATGTATGTTTCTGAGG
GGGCTCTTTATAACCTAGTTGCAAGCAATCTGAACACAGCCCGGCGAATTTCCAGCTTTT
GAAACTCAGATTTCCTTTTGCGAC
Sequence=4484;DNA;Homo sapiens
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TGAGACCAGGAAGTCTCCTGGGAATCTTCTCGTCTCCTGTAACCCAGTTNACGACAGACC
CTTGGACTTTACTATATTGGAAAAATCTACATAAAACAATGTCAGTGTGTCAAAGCATTA
TGTCTGTCACAAGCTTGTGAAAGGAAAATAAAAATTACTAAGCCAAAGAGAAAAGTNAAG
GCTGGGAACTGCAGCAGACAAACCTGCCTTCCATTTTATTCTTAAACAAGATAGCTTTGA
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Sequence=4485;DNA;Homo sapiens
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CTCAAGTTGAAGATATGGGGAATATAATTTTAGCAATGATTTCAGAGCCTTATAATCACA
GGTTTTCAGATCCAGAGGGAGTGAATTACAAGTTTGAAAGTGGAACTTGCAGCAAGATGG
AACTTATTGATGATAACACCGTAGTCAGGGCACGAGGTTTACCATGGCAGTCTTCAGATC
AAGATATTGCAAGGATTCTTCAAAG
Sequence=4486;DNA;Homo sapiens
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CGGGGC
Sequence=4487;DNA;Homo sapiens
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GCACAGCTGAAGCATGAGGAAACTCATCGCGGGACTAATTTTCCTTAAAATTTAGACTTG

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CACAGTAAGGACTTCAACTGACCTTCCTCAGACTGAGAACTGTTTCCAGTATATACATCA
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Sequence=4488;DNA;Homo sapiens

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AGACTAGCCTGGTCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAGTCGG
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AAATAAATAAATAAATAGTATTTTTGAGCCTTCAAGATACAAGTTCCTGAATATTCTAAT
TTAAATTGGTATAATTGGATTACCTAATATTCTTTTCAAGACTCCTGATGTATTAACTTC
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AAAA

Sequence=4489;DNA;Homo sapiens

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AGTAAACACAGAATANATAGGAACTTCCCTAACTTGATAAAGTGTATCTACCANAAACCT
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TTNACTTANAACCCNGGNATTGGGCCAACNTTTTTTTGTTTAAGGGGCNAAAAAANAANT
TTTTTAGGGNNTTGNNNNGCCCAAAAAAAATTTTNNGNAAANAACCNNAANNTTTNCCCT
AAATANCCTNNACCCAACCTAAAAACCCTTTTTTTTTNNGGGGNAAAAATNTAAAAAATG
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Sequence=4490;DNA;Homo sapiens

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AAAAAATNTNTATTTTTNNCTATNTTTTCCNNGNGTTTTNTTAATAAAAAAANNNNNTTT
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TTT

Sequence=4491;DNA;Homo sapiens

CCCTTTCGAGCGGCCGTCCGGGCAGGTACATGTGGAGGCTGGAATCTGCTCTGGTTGATG
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Sequence=4492;DNA;Homo sapiens

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TATAAATGAATAAATCAAAATAGGACAGATAGGCAGTGTGGGAAGCTAAAATATGGAAGT
GTTATTGCTTTGCTTTATGTGGTATAATGATCTGATTTTATCTTTCCCAGCTCTCCCAGG
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AGATGCTTTACCTAAA

Sequence=4493;DNA;Homo sapiens

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Sequence=4494;DNA;Homo sapiens

TABLE 2
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ATGCTTTTTATCAAAGCCTGGTCTGCTTCTTTGTGCCTTATTTTACCTACCAGGGCTCAG
ATACTGACATCTTTGCATTTGGAAACCCCCTGAACACAGCCGGNTCTGTTCATCGTTCTC
CTCCATCTGGTCATTGAAAGCAAGAGTTTGACTTGGATTCACTTGCTGGTCATCATTGGG
TAGCATCTTGGTCTTATTTTTTATTTGCCAT

Sequence=4495;DNA;Homo sapiens
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NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
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CATAAAGTTGTAAANGCCTGGGGG

Sequence=4496;DNA;Homo sapiens
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TGTTTTCTCANCATTCACAATGNCCATATATAGAATNTGAATCATTTNACANGGCGGTGG
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Sequence=4497;DNA;Homo sapiens
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GAGGCCTTGGGGCTTATGCCTCTTTAGGAAACACTTTGTTTTATTATGTCAAGGTGTATG
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Sequence=4498;DNA;Homo sapiens
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GAGTTTTTTAAAGATAGTTTTGTGGGCTAGGGAAGGGGTGGTGCTGATTGGTTGGGGATA
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TNTNGGCGGGGTTTTTTA

Sequence=4499;DNA;Homo sapiens
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AGG

Sequence=4500;DNA;Homo sapiens

TABLE 2

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CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTTGTGGCCGGACACGATGGCTCACGC
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ATTAGCTAGGTATGGTGGTGCTACCTGGGAGGCTGAGGTTTTCACAGGTTGAACCCCAAA
ATTAGGGTTCAGTCCAGGAGGCCATTTGGGTTCTTGGCTTCATGAAGGAAGGAATTCAAG
AATAAGCTGACAGTAAAGTAGAAGCAAGTATATTAAGAAAAGTAAAGGAATAGCGCCGGG
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Sequence=4501;DNA;Homo sapiens

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ACAGACATAACCTTACATTGCTTTCCCAAAAGGGGAATGCCACCAACAAATCAACTAATT
GGTACTTTNCTTTTTTTTTTTTTTTTTTTTTTTTAGGGGGACTATAACCCATTTTCTATTAA
TGAGCACATGGAATCTTTATTGCATTTTTCTATCATAAACACTTCTACAATAATTGNGCC
TGCATAANATTTATTCTATATTTATACTGCTGTATTTCTGAAATAGAATTCCAAAATTCA
TAATTTTGTCAGGTACCTGCCCGGGCG

Sequence=4502;DNA;Homo sapiens

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TCACCTGAAACACTGGACCTGGGGGTAGCCCCGCCCCANCCCTCAGTTCACCCCCACTTC
CCACTTGGCNGTCTTGTTTGCCTNGAAACTTTTCTAATCCTATTACCGTTTCTTGNNGGA
NGTTAAAATTAATTNGNGAATTTTGGG

Sequence=4503;DNA;Homo sapiens

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GCATATGCTCATGGCTGACTGAAAAAACTTATCATCATCCGGGTCCTTTGGAGAAAATCT
CTTTCCCATTAATTCATTCATTATATCATAAATGATGAAGGATGATCTCTTTAAAGGGTC
TCCAGGTTGATCAAACAGGCGAATAATATGGTGATATGTTGCAAGCGAGGGTTCTCAAAT
TACCAGGTAGACAGAAAAAATAAACAATGAGGTAAAAACACAGCAATCCAAAACATAGTT
TACTGGAGACCGCACTGAATTAAAAACATATTGTTAATATTTAAGCCAAAATATTGCATT
TCTATTCCTTTGAACAAAGTTATTT

Sequence=4504;DNA;Homo sapiens

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Sequence=4505;DNA;Homo sapiens

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TTCTGTGGGCAATTTATTTCGGCATTCCAATTTGAACACACAAGCCCACTATGAGGCCCA
TTCTTTNTNTTTTACACACACACACACACACACACACACACACACACACACACACTCTGTCC
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ATCTGTCTTCTGTTTCATTCCTCCAAGTAAAATGGGTAACAACGCGTTAGAAAGAGTTGC
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GAGTTCATGATNCCTAGAATTATTATTGGATTTAAAAATTTTCCATTTTTTTCAAATACTT
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CATTTTTAAAATAT

Sequence=4506;DNA;Homo sapiens

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ATAGCAAAGGATAATTGAAATCCCAAACTTCANGGTTTTCAACAANNGTGAAGTTTGCTT
AAAGTTAACAGTGTAACATGTATTATGGTACTTCTAATTCTTTGTGGCCCTTAGACAGTC
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ATTTTTCAAAAAAAAAAAAAAAAGTG

Sequence=4507;DNA;Homo sapiens

TABLE 2

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Sequence=4508;DNA;Homo sapiens

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TCTTGAAGGGACCCAAGAATATTTTTCTTTCACATTTTCCCCTTTTCTTTTTTAACATCT
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Sequence=4509;DNA;Homo sapiens

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Sequence=4510;DNA;Homo sapiens

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Sequence=4511;DNA;Homo sapiens

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Sequence=4512;DNA;Homo sapiens

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TABLE 2
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AGAAAAAAAA
Sequence=4520;DNA;Homo sapiens
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TABLE 2
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Sequence=4525;DNA;Homo sapiens
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TABLE 2

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Sequence=4533;DNA;Homo sapiens
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TABLE 2
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GCCTCCCAAAGTGCTGGGATTACAGATGTGTGCCACCTTGCCCAGCCAGATTTTATGACT
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Sequence=4578;DNA;Homo sapiens

TABLE 2
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Sequence=4581;DNA;Homo sapiens
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Sequence=4584;DNA;Homo sapiens
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TABLE 2

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Sequence=4585;DNA;Homo sapiens

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GGCTACCAGTTTATCCAAACGGATAATTACTATTTCTCTTTTGGACTGTATGGTGCCTTT
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Sequence=4587;DNA;Homo sapiens

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Sequence=4588;DNA;Homo sapiens

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Sequence=4590;DNA;Homo sapiens

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TABLE 2

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Sequence=4591;DNA;Homo sapiens
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Sequence=4592;DNA;Homo sapiens
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Sequence=4595;DNA;Homo sapiens
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TABLE 2

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TABLE 2

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Sequence=4603;DNA;Homo sapiens

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Sequence=4605;DNA;Homo sapiens

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TABLE 2

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Sequence=4609;DNA;Homo sapiens
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AATCTAGGTGTCCATCAATGGACAAATGAATAAGGAAGCTGTGGTATATATACAATGGAA
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CATGTGGAATCTTTTTTAAAAGGTCAAATATATAGAGAATAAAACAGTGGTTACCAAGAC
CAGAGTTATGGGGCAGGGGAATGGGAAGAAGTAGGTCAAAGGACACTGAGTATCCCTAAT
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CAN
Sequence=4616;DNA;Homo sapiens
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AATTTTCTGATGAACGTGCTGCATATTTCAGGTGTTATCATAAGGTTACAGAACTCAATA
ATGTGAAGAACGTAGCTCGATTGCCAAAAAGCACCAAGAAACATGCCATAGGGATTTATT
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GCAAAGTACCTNGGCCCGCGACCACGCTAAGGG
Sequence=4617;DNA;Homo sapiens
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GGAGNGCTTTTNAAAAAAAAAAANCCCTTNNGANNNNNNNANAAAAANGAGNGGAAAAAAAA
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ACCNCCCCCCCAAAAAAA
Sequence=4618;DNA;Homo sapiens
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ACCAGGGAAGTCACCCCACGGNTATGGGGAAATTAACCCGAGGCTTAGCTTTCATTATCA
CNGTCTCCCAGGGTGTGCTTGTCAAAAAGATATTCCGCCAGNGCCANGATTCGGGCGCTC
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CCTTGCTCAATTCAGGGTAAATGGGTCNTCCAATGNAAAATCACAACAAAATGGGGGGGN
CA
Sequence=4619;DNA;Homo sapiens
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CAAGTTNTCAAGGGNTGGGGATGNGCTAAAAACACTTTTAANNAATNNATCNGCGANCCA
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CACACTGGC
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Sequence=4635;DNA;Homo sapiens
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Sequence=4636;DNA;Homo sapiens
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Sequence=4637;DNA;Homo sapiens
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TABLE 2

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GCACTGAAAATGTATTGATACCTCTTAAATGAATGCAACTTTTGATGTAGGTGTTTTGCT
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GTTTTCTTGNTTCATATTTTCATGTTCAAA

Sequence=4649;DNA;Homo sapiens

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Sequence=4650;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGACTCCAAGTCCAAAGCAAATACCCATGGC
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TCCCTACCTCACAACAAGAAAAAATTTCCTAGATGGGACAATGGCAAGATATTGTGCTAA
TACATTTCATAGGATTTCTAGATGCTGGGCTATAACATCCAGGTTACAATTTGGTGACGG
ATTTTTTTATTTCTATTGCAAATGGACTACACTCCAAACACAAAAAGATTCTTGCCATAG
CATCCAAACATCCCTATGTAGACCCACACTTCCTCTCAATACAGAAAGAGAATCACTCAG
AAAGGACAAAGCTGGCAGACCAAGAAAGGAGGCAAGGGTAAACTCTGTCACTGACCAATT
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AGGCCAGTGACACACACCTGTAATCCCAACACTTTGGGAGCCCAAGGTGGGGTGGATCGC
TTGAGCCCAGGAGTTTTGAGACAAGACTGGGCAACACAGANAAACCCCATCTTTACAAAA
AATCAAACTTAACCAGGTTGTGGTGGTGTGTGCCTGTAATCCCAGCTGCTTAGGAGGATA
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Sequence=4651;DNA;Homo sapiens

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CTCTGTGCCTANAGAAGGTAAAAGGAAAAGAGACACAGAGATTTTCTACAATACAGTGTC
AGAGGATTAGTCTTTGTTTCCTTTTCGTGGGAAATATTTACAAGCGGATAACACATCTTC
TTAAAAGCGCCATTTAATGCTTTGTCAAAAACAATTAATTAAAATATGGTATAAACAAGT
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Sequence=4652;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAGGAGAGCTGGGGAGGCCAGTGTGCCTGCAG
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TABLE 2

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CAGGGCTTGTGGCGAGGGGAATCAAATCATTTATTCTCCACACCAGCATACTTCAGAANG
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GGCGAATTCCAGC

Sequence=4653;DNA;Homo sapiens

ATTCGCCCTTAGCGTGGTCGCGGCCGACGTACTGGACNCTTCTTTNCCCACCCCTTTCCT
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CTTTNTTNGCTTAACANAAAAAAAAANNGANTAAACTTNAGAAATAAACGAANGTTTGNG
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CCCAANAAAATATAANCCCNGCNTAAAAAAATGTTTTANATTACCCCNTCCCNAATNAAA
TTNAAACTTCACCTGGANTTGNANAAANCTCCGGTTGACACAANTTANACTACNAAAAGA
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NCTTATGCTTAACC

Sequence=4654;DNA;Homo sapiens

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CCCTTNTTGTTTTTTTTTTAAACANATTNTGGAAGGCCNNTGTNAAAAACGGATTACNAG
GTCCCNCCATTAAAAATCCCCCGGGTNCCTTGGCCGAGACCCCNTAAGNGGNAAATTCCA
NCACACTGGGGGNCGNTACTAANTGGATCCCAAACCNTGGGACCAAACTTGGNGTNAATN
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TGAGCCCGAAGCNTNAAANTGNAAAGCCCGGGGG

Sequence=4655;DNA;Homo sapiens

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CTCCTGGGTTCAGGTGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGCACTACAGACACG
CGCCACCATGCCCGGCTAATTTTTGTATTTTTAGTAGAGACGGAGTTTCACCATGTTGGC
CAGGCTGGCCTCAAACTCCTGACCTCAGGTGATCCACCTGCCTCGGCCTTCCAAAAGTGC
TGGGATTACAGGCGTGAGCCACTGTGCCTGGCTTCCATCCTCTTCTATCATTTTTTTAAA
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CCATTTTGNTTTTCTANAACCCACAAAAGTTAAAACTTGGGAATTCCCTGGCCCCCCANA
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GGGTTTTTTGGG

Sequence=4656;DNA;Homo sapiens

ACCCTTTTAACAAAGGAAAGTGGGTTTGGGCTTCGAGGGACAATAAATTGTGGGGAAGTG
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Sequence=4657;DNA;Homo sapiens

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GCAAAACAGTTCTCAGAAATGTCATGATTGCCGGGGTGAAGGCAAGAGATGAATTGCATT
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TABLE 2
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GGTCCCCAATATCATGTGATTTTTTTTCCTCCCCTTTCCCTTTTTTTGGTTATTTTTTTT
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Sequence=4658;DNA;Homo sapiens
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Sequence=4659;DNA;Homo sapiens
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Sequence=4664;DNA;Homo sapiens
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TABLE 2

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Sequence=4665;DNA;Homo sapiens
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CCCTGCAAATACACAC

TABLE 2
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Sequence=4672;DNA;Homo sapiens
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CTCCTGGGTTCAAGCGATTNTCCTGTCTCAGCTTCCCAAGTAGCTGGGATTACAGGCCAC
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Sequence=4675;DNA;Homo sapiens
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Sequence=4677;DNA;Homo sapiens
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Sequence=4678;DNA;Homo sapiens
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TABLE 2

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ATTCTATGACCGACTGTTATCAAGTGTGGGAGCACTAAAAGAGAGTCTGCCCCCGAAATC
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TCCCGGGTGAGTCTGGAGGTCAAGGGACTCAGAGGACAGACTTCTACTCAACACCCAGAG
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Sequence=4679;DNA;Homo sapiens
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Sequence=4680;DNA;Homo sapiens
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AAA

Sequence=4681;DNA;Homo sapiens
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ATTCCAGC

Sequence=4682;DNA;Homo sapiens
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Sequence=4683;DNA;Homo sapiens
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GGTCTGCAGTGACATCACTCTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=4684;DNA;Homo sapiens
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Sequence=4685;DNA;Homo sapiens
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TABLE 2
718/3461

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Sequence=4686;DNA;Homo sapiens
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Sequence=4689;DNA;Homo sapiens
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Sequence=4691;DNA;Homo sapiens
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TABLE 2

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Sequence=4692;DNA;Homo sapiens

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Sequence=4693;DNA;Homo sapiens

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Sequence=4696;DNA;Homo sapiens

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Sequence=4698;DNA;Homo sapiens

TABLE 2

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Sequence=4699;DNA;Homo sapiens

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Sequence=4700;DNA;Homo sapiens

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TABLE 2

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Sequence=4705;DNA;Homo sapiens
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TABLE 2

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TABLE 2

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Sequence=4718;DNA;Homo sapiens
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TABLE 2

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GGGGGGCCCCCCCCCCTTTTTTTTTTNNGGGGGGGGGGGGGGAAAAAAAAAAAATTTTTTT
TTTTTTNGGGGGGNGNNAAAAAAAAANCCCCNTTTTTNCCCCCCCCCCCAAAANNNTTTT
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Sequence=4729;DNA;Homo sapiens

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ATTTAATATAATTATGACCATGCTAATGTGAATTCTTAGGCTTTACTATATTTACAACAG
CACAATTTTGATTCAAAATCAGCTCTTCCAACTGTAATAACTATCTTCAAAAACTGGTTT
CCAGGCCAGGCACAGTGGCTCACGCCAGTAATCCCAGCACTTTAGGAGGCCAAGGCAGGA
GGATCACTTGAGGCCACAAATTCAAAACCAGCCTGGGCAACAGAGCAAGATTCCATCTCC
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Sequence=4730;DNA;Homo sapiens

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GAAATTAAAAAGAATAATGTCAAAAGAACAAGAATACAAATAAACAATAAATTTCAAAGT
AGCAACAGACAAACCTGAACAAGAACTTCCATGAGGGAATCATCAACCACAGAATGAAGC
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Sequence=4731;DNA;Homo sapiens

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AGCAGTGGCATTAGATTCTCATAGGAGCATGAACTTTATTGTGAACTGCACATGCAAGGG
ATCTAGGTTTGCACACTCCTTATGAGAATCTAAATGCCTGATGATCTGAACTGGGAACAG
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GTGCCCAAAAAGTTAGGGGAC

Sequence=4732;DNA;Homo sapiens

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Sequence=4733;DNA;Homo sapiens
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Sequence=4734;DNA;Homo sapiens
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GCTCTTTCTGGCTTTAAGCCATCACCCCAGGTGTGCAGTTTATGTCAGAGGGGCCATCAG
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TTT

Sequence=4735;DNA;Homo sapiens
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GGGTTGGCCAGATCTTTGAACCTACAACACTTCATTCCGGTTTTCATTTTCTTTGTGTTC
ATGGACTCTAGAGAGCACGGAAGTAATTGGGTTTCATTGGGTAGCAGAGTAAGGTAGAGT
GCACTTTCTCAAGACATGTTCATTGGTCTGAGCAAAGTTCTGTCTCTTGGAAGGAGACAG
TAGCTTGGTGGTGCTA

Sequence=4736;DNA;Homo sapiens
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Sequence=4737;DNA;Homo sapiens
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CACCAAAGAAAATTTTAAAAAAAANGGAGAGAGAGAAACCCCCCCCCCACAGTCTTCATT
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Sequence=4738;DNA;Homo sapiens

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TCCAACCTCCAGCACGACAAAAGCAAAACACACTCGCTCTGAGAAACCGAGGAACGAGCC
AGACGACTGGAGTTGCCAAGAGCAAGTCAAAAAACATTCTGGTGAGAATGGTGAGCGAAG
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TGCATTATGATCCAGTTGTGAAACAAAGAGTCCTCTTCGTGGAAAAGAAAAAAATACCCT
CCCTTTAAACNGTGGATTGAAAATGACTTTGATTTATAAAGAGAAGACTGGAGGGCCGGG
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GCCTCCTGTGATTTTGAAAGCCATTGTGAAGGAAAACAATGCAGTGAAAAGAAAGTCTTT
CTTTTTAGGACAGATATTATTGCATCACATTTATTTATCTTTCTGGGNATTTTTATAGCC
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AAAAAAA

Sequence=4739;DNA;Homo sapiens

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ATCAAAACCATGACANGACATTTTACCNTTTAANTACTTNNNATAACTAANTACTCTTTA
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TCACGTTTTTCTGACATTCCCTGGANGGTGACTGGGGAAAAAATGGCTCCAGGGNTNTAA
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Sequence=4740;DNA;Homo sapiens

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GAGAGTATTGGCGCCCATCTTAATGCCTACAGCACTCGGGAGCACACTGCTTACCTCATC
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Sequence=4741;DNA;Homo sapiens

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TABLE 2

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GGGNCCCNNNCNTTNGGGGAAAAG
Sequence=4742;DNA;Homo sapiens
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CCGTCAAGTGCAGTAACCAGTTCAAGTTGGAAAGTGTGTCTTTTGAAATCATACAACAAA
GTTTGNGGACAACCAGGCCTGGNGACCCAAGGGC
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AAAT
Sequence=4747;DNA;Homo sapiens
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Sequence=4748;DNA;Homo sapiens
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Sequence=4750;DNA;Homo sapiens
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Sequence=4753;DNA;Homo sapiens
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Sequence=4754;DNA;Homo sapiens
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Sequence=4755;DNA;Homo sapiens
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TGAGGCATATGTTACATATCATAAACACCCATTTCAAGTGTCCCTGCCCGGGCGGCCGCT
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Sequence=4759;DNA;Homo sapiens
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ACTGTAGGATTTGTAATTCAAATCATCACAGCATCCTAAAGAAATACTGT
Sequence=4760;DNA;Homo sapiens
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Sequence=4761;DNA;Homo sapiens
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NNANAAAAAAAAAAA
Sequence=4762;DNA;Homo sapiens
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC

TABLE 2

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GCGGGTAGCATAAAAATAAAGGTATAAAGAAAGATATACCATGTTAATACTAGTCAAAAG
AAAACTGGAGTAGCAGTATTGATATCAGATAAGGCAAACTTCAGAGGGAGAAAAATGATC
AGGGATAAAGAGGGGCATTATATAATAAGAGGGTCAATACTCCAAGAAGACATTGTTAAA
TCCTTAATGTGTATGCACCTAACAACAGCATCAACGTATGTGAAGCAAAAACTAATAGAA
CTGCAAGAGAAATAGACAAGTCCACTATTATAGTTGGAGACTTCAACACTCTTCTATCAG
TAATTGACACATTTAGCAGGCAAAAAAATCAGTAAGGATATAGCTGAACTGGACAATACT
GTCAAGCCACTGAATCTAATTGACATTTACAGTATACTTCATTCAACAGAGTACCTCGGC
CGCGACCACGCTAAGGG

Sequence=4763;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGGATAACTTAATATCCTATGTTGTGTCA
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AGCTGAGTATCAACTTGCCTTTCTGATAGAAATGTTTCTTGTGCCAGTTTTATTGTTGAG
ATATACTATTTTTTTTCCTTTTTTAATTCAGTTTTTTAAAAAAACAAATGTATTGTGGCTT
CCAGTTACCAGGTTGTCTAGGTAATGACAGTAAACTGACTGTAGAATGATAATTGTGGTA
TAGTGACCAATAGATGCCAAACAGCTTGTGGCCTCACTAAAGGTGGGGTCCGCTTAGTCC
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Sequence=4764;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAATCAAACCACTACATCTGGATCAG
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TCATCAGCTGCTTCTCAAACCAGCTACACTACATAAGGAGGAGCCCAAGGGAAACTGCAG
GACAACAGGTCCACTGGGAAACTTCAGGGGGCCAAGCTGTCAAAGACAAGCACAGAAAAA
TTCCTGCAATGTGCGTTAGACCTTGAGGCAGCTTTTAATGGCAAAAGTCAGTACCTCGGC
CGCGACCACGCTAAGGG

Sequence=4765;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCNGGCAGGTACAAAAAGTAGCCGGGCGTGGTGGCTGGCATGT
GCCTGTANTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCTGAGAGGCG
GAGGTTGCAGTTAGCCAAGATCACGCCATTGCACTCCAGCCTGGGCCGACAAGAGTGAGA
CTCCATCTCAGAAAAGAAAAAAAANAANAAAAAANAAAATANGTACCTCGGCCGCGACCA
CGCTAAGGGCGAAATTCCAGCACACTTGGCGGCCGTTCTAAGTGGGATCCGAGCTCGGGT
ACCAAGCTTGGGCCGTAATCAATGGGACATAGCTTGTTTCCTGTNGTGAAAATTGTTTAT
CCGGNTCACAAATTTCCCACACAACATACCGAGCCCGGAAGCCATAAAAAGTGTAAAAAN
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Sequence=4766;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNNTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGANNNNNA
AAAAAAAANNTTTTTTTTNNNGGNGNGGCCCNNAANNATNTNNAAAAAAAAAAANANNNN
NTNTTTTTNNAAAAAAAAAAAANNNCAANNATTTTTTTTTNAAAAAAAAAAAACNCAAAA
ANGGGNNCCNNNTTTTNNNNANNNAANAANANGGNGNTTTTTTTNATNNTNNNGNGNGGG
GNGGNGGTTTTTTTTTTNAAAAAAAAAATTTTTTTTTTTTTTTTNTCCNCCCNAAAANNAT
NATNNNTNTTTTTTNGGGTGNNGGGCCCCCCCCCCCNNAAAAAAAAAAAANTTCTTTTT
TTTNNCAAANNGNGGGGGGGTTTTTTTTTTTTTTTTTTAAANAAACNNGGGGNNAAAAAAA
AAAANAAATNTANNNGNNCCCGCNTTTTTTTTTTTTNCCCCCCCCCTCCCCCNNNNGNGNN
NAAAAANTTTTTTTNAAANCCCCCCNCTNTTTTTTTTT

Sequence=4767;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGATACTTGACAATTTGTTTTATTATGTA
ATTGATAAAATGGTGATGTGTATTAATGTTAGTTCAACCATATATTTATACTGTCTGGGG
ATGTGTGGTTATAGTTCTGTGGGAGAAATAATTTTGTCAGTGTTCACCAGCTTGTAAAAA
CTTAGTGCGAGAGCTGAAACATCTAAATAAATAATGACATGCATTTATCATCAAAAAAAA
AAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGAAGGG

Sequence=4768;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATCTAGGTCCGGCGTGGTGGCTCACTTTGGGAG
GCCGAGGCGAGCAGCACTTTGGGAGGCCAAGGCGAGCAGAACACTTGAGGTCAGGAGTTT
GAGACCAGCCTGACCAACATGGAGAAACCCCGTCTCTATTAAAAACACAAAATTTACCCG
GGCATGGTGGGGCATGCCTGTAATCCCAGCCACTTGGGAGTCTGAGGCAGGAGAATTGCT

TABLE 2

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TGAACCCGGGAGACGGAGGTTACATTGAGCCGAGATGGCGCCATTGCACTCCAGCTTGGG
CAACAAGAGCGAAACTCTGTCTCAAAAAAAAAAAAAAATNCCAAANNGNCTNCGGGGTNA
ACCTNNGGGGGNTNNNNCCCAANNNGGGNAANCCCCTTNTTTNNTAAAANTNCAAAATTT
ANNNGNACNNNCTANGNCCCCCNTNTANNCCCACCTNNNGGGNACCNNGNGGCAGNAAAN
TGNTTNGAACCNAGGNGGGGGNGGTTGCANTGACCCAAAATCNCCCCNTACNCTCCNCCC
NGGGGGANAAAAAAANACTCCGTTTAAAAAAAAAAAAAAAA

Sequence=4769;DNA;Homo sapiens
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CGCATAGCTTCCCTAGTAAGTCGTTTAGGTGGAGGCCGCTCGCCAAATTTCCTTTTAATC
CACGCCATGGTACGCGGGTCGGAAACCACGCGTCCTACTACAAAGATGCTCTGCGGTTTT
TGGGCTGTGTTGACATCAAGGATCTACCAGTGTCTGAGCAGCAGGAGAGAGCCTTCACGC
TGGGGCTAGCAGGACTTCTCGGCGAGGGAGTTTTTAACTTTGGAGAACTCCTCATGCACC
CTGTGCTGGAGTCCCTGAGGAATACTG

Sequence=4770;DNA;Homo sapiens
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TCAAGGGTTGTCCTTTCTGTGCTTTTATCTGTCACGACAGGAAGGTGTGGAAAGTTTATA
TCGTTTATATCCTTAATTTGACTACTCTTGGATATTAAAATCTTTCTATTAATTAAAAAG
ACTTTTAGACAACCTCTTAAATGGAATTACACTATGGAAAACAGGGCTCCCCCAAAAACA
CCTAGGCAGAACTGAGAGTTCTTTGAAAACCATTCCCAATAAAAACTAAATGAAAAATAA
ATATAAAACAAAGCTTAAAAAAATATGCATTACCTGACACCAACCTTTTCTGGCTGACAA
TATTTATTCATGAAAACATATCAGCTGTCTACCTTTTATATGCAAACCAAGTCCTGAGGT
TAACTAGGGGCTGAAGCAAACTAGCATTTAGGATGCAAACATTCTTGGATTTGTGATGTA
AACTTGCCTTGCCAGGGAAAGTTTGCTGGTCTATACAGAATGAGAAATTCAAAGCCCTAT
TTTAACCCCTGCCCTCTTTAGCTTTCACAAAACATTGGTCCACAAATTAAATTTTCAAAA
AGT

Sequence=4771;DNA;Homo sapiens
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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTAAAAAAATTTTTTTTTTTNA
AAAAAAAAAAAAAAAAAAAAAAAANAAAAAAAGNAAAGGAATTTTTTTTNTNTAAAAAAA
AAATTTTTTTTTNTAAAAAAAAAAAANATTTNNNGNAGNGAAAANAAAAAAACCCNTTGG
NNGNTGGAGCAAACCCCNAAAGGTGTNTATTTCCNCCNAAAAAAAAAAAAAAANCCCCNGA
AAAAATNAGNNNNTGNGGGGGANAAAAAAAAAAAAAAAAANCCNTTTAAANNAAAAAAAAA
AGCGGGGCNCAAAAAAAAAAAAAANNNGGGGGGGGGNTGAATATNNAATNAGAAAAANGNN
NGNTTTAAAAAAAAAAAAANAACANNTANTTTNTGGTNNANAAAAAAAAAAATTTTNTTN
ANAAAAAAAAAAAAAAAAATTTTTTCCNGTGNAAGNAAAANATATTTTTATTAGAAAAAA
AAATTTTTTTTTTTATAAAAAAAAAAAAAANNNNNNNNNNCTTTAATNNAAAAAAA

Sequence=4772;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTGTTAAGTTTGTGAAAAGTGATGCAATTTGTTAT
ACATTCAAATGCAAATTAGAACTAGCTGCCTTACGATGAGATTTCACTGTCATTTTTTTA
GCACCCTAATTTTTGTCGGTTCTGTAGGTTTCAAGTAGCAGAAACTTACATCTATTTCCT
TCAGAAAATTAAGGAGCAGATATTTTAATATGCTTTATGTAAATAGGATTCTGATAATTT
TAGCTTTAGTTAATGCAACACACTTNCCTGGGCACAACCATGACCTCTCTGAGAACTGGA
AAATACTGCATAATTTTAAAAATCAGAGTGTAATGACATTCCCTGACAACTTCAAATAAG
TTATGTGAGGAGGATGAACTATGGGTAGTCTAGACCACCAGTCATATTTGTCTAGCCGTA
GAAACAGTGACAACTTAAA

Sequence=4773;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGCTCGCTCANATCCTGCCAGGTCAATGAGTG
ACATCTTGGCAATACGGACATTTTGATTGATACTTGCTGTTTTGTCTTGTTGTCGCAAGT
AAATTTGGAAAACAGCATGAGAACGAGAAGATGTGGCATTCATATCAGTGGGATGTTGTG
TCCTGTTTTTGTTTCCATTATCCAATAAATGCAAAATTTCTTCTGAGGATTTGGGCTGGT
GTAAAGTAAGTCCATGAACGACCACCCCTTTTTGGGTATCTTCCCGGACAGCAAGTGGCC
CTGAATTTACTAAGAGATCACAAATCTGTTCATTATATACCTCCAGATATGAAACTGCAG
TACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence=4774;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAAATCAGGAATGGCCATATTAGTGTCA

TABLE 2

732/3461

GATAAAGAAGACTTTAGAGCAAAGAAAATTACCAGAGACAGAGAGGGCTGTTACATTGTA
ATAAAAGTGTCAAACAACCGAGAAGACAACAATCCTAAATGTGTATGCAGAAAATAACAC
AGCTGCCAAAATACATGAAGGAAAAACTGTCATAACTAAAAGGAAAAAGACAAATCTACA
ATTACAGTTGCAGACTTCAGCACGCCTCCCTCTCTTACTGATAGGTAGAACAACTAGACA
GAAATAGCAAAGAGGTAGAACT

Sequence=4775;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATTTAGATAACCAGCTTCAAGAACAATCAGA
AACTGAGGAAGATTCCAATCCTAATGTTAGCTGGGGTAAAAAGGTCCAGCCTATAGACTC
CATATTAGCAGNCTGGAATGAAGATTAGAAGCATTTGAAATGATGGAGAAGGATGAGCTA
TGACTTGCTAAACAATCTGTTGGTAGGTATTTAAAAAGAAAAGGTAAACTGTGTGTGGTT
AATAGACATCCTAATACTAAGCAGGCTTTCTAATGGGAGGCTTTAAGTATGGTGATGAAC
AACCACGTTCTGACTGGCGTAGTTATCGTAGGAATCTGGACATGCTGTGTTANAATTGAC
CTTGTTTAAAACTGTCCCATCAAAAATGGAAATCCACAGTTCCCCCTTC

Sequence=4776;DNA;Homo sapiens

CCTTTGGGAGTCGACCCCGNNTCCTCTGATTTTGATATCATTATTCTAAGGAGTTATCTC
AAAGGCACAAAATATGAATTCTGCAAGAAGGCTATTTTTTATTGTAGTTTGAATGGGTTA
GGAAAAGCCTCAATTTTTCACTCTTAAGTCCTTCAGTACATTTTTCTTTCATCTTATTAC
TTATGCAAGTTAAGGTTCTTTGGTAACAGAATTCTTGCAACTGTAAAATAAAACTACATA
GATGTAAGAAGTCATGTAAACGGTTAACAAGCTTACCAAGGTTAGCAAAACTTTCATTGT
AAATCAGTCTGTACTGAGCAAATAAAAATCATTATTAGTTGTATAAACACAAATTCCATT
TTGACTTTCAGGATGTCATACTACTTCTGTACCTAGCATTTTCAGTCCTTATATTTGCAA
TGTTACACAAACTGTACTATTTTCTTTTATGTGCAGTTTGCATGAGTAAACCATCAGAGA
ATAAATTCTATCTTTAAATTNNNANAAAAAAAAAAAAAAAAGGGNGNCCNTTNAATTNTT
TTAAAAAAAAAACCCCCCCCCCCCCCCCGGACNNGGAAAANTAAAAGNAAGGCCNTTGNG
GNGGAAANCTGGTTTNTGGNNCNCTTTAAAGGNTTCAAAAAAAANCCNANCCCNCCCCAA
ANTTCCAAAAAAAAAACANTTTTTCCCCCGGCTTCCNAAGGGGGGGGNGGCCCCACCCCN
AAGGGGNTNTNAAAANGGGGGGGAACCCCCGGGGCCCCCCCCCCAAA

Sequence=4777;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTCACATAGCTTGTTGCCCCGTAAAAGGGT
TAACAGCACAATTTTTTAAAAATAAATTAAGAGGTATTTATAGGATTAAAGTGACTTCAT
TTGTATACATTTGGAATCTAAACCAGCTTAAAAACAGTTTCCTCAATGACTTAGATACAC
AGTATAACTGATGCTCTTCTGGAATACCACATGAGACATGGTCAGAAACAGTGCTTGGAA
GGACATTACACAAGAAATTCAGAGTAATGCTTTGAAGATTTCCCCCCTTTTGTTTTATTC
CTGAAGGAACATCAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence=4778;DNA;Homo sapiens

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CTAANCTTNTACAGTTTAGAGGGTTTTACAAAACTGAAAAGTGAAATTGAGGGTCACATG
AACCTGCCATGAANTAAATGTCACATTTCTGTCACTGCTCACTAGACTTGTGCACTACTA
GAGTATTTGTAAACTAAAATGTTATATAGAAAATAACCNCNTATTNGGTCATTTACTCNA
ACATTTATCAAGTGCCTATTTTGNGCCAAACATAGCAAATAGGGGCTGTGAATAAAGAGG
ATGAAAACGTGCCCTTATCCTTAAAGAACTCTNATAAGAATCTTATTAAACNAACCCGAA
GCNGAGTTNNCCTTCCCCCCTTTATGTNAACTAACCNTTATTTCCCGGGAATACCTTTCN
AAATTCCTGAACTTTTTACCCAAACCNATTTGACAGAAGTCCCNCGTTTATAAACCTTCT
TTNGGAAAATATTTGGTAAAAGGGCCCNTCTANACNAAATNTGCCAGGGGNAAAAAAATT

Sequence=4779;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTNTTNTTTNTTTTTTNAAAAAAAAAAATTC
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GGTGTNTACTTANAGACANCATTTATNTAAACTANNATNNAACTTTGATAAAAACTATAT
TTTCTTTCTTTAAAANAATTTAAATGTTTTTTCACAAAGCTTAGCCATACAACCATTGAA
TNTNTTTNTCTTAAAAANGGNTTAAAACCCANAAT

Sequence=4780;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCNNNNNNAA
AAAAAANTTANNNNNNNNNNNNTNAANAANAANGGGGGGGGNNNNCNNNNNNTGTTTTNAA

TABLE 2

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TNNAANNNNNNNCNNANNTTGNGTTTTTTTTTTNAAANANNNNNAAAAAAAATNGGCCCC
ANNGGNNTNTNANANAACCCCCCNTTNANNNNTNTTTGTTAAAAAAAAAAAAAACANNCA
AAAAAAAAAA

Sequence=4781;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTATAGGTAACCAGTGTAGGTCATTAGAACA
CAGGCTTCACACTGCATGCTGATCTGCAAAGTGAGGACATACCAGTGACAACTTTGGAAT
CTGCATCCAGCCACAGGTAACAGATGTATTGCACCAGACTCAGATCTAGATTTTGTGATG
ACTATATAATGAACTAGAAGTTCAAATTAGAGAAAGAAACAATTCAAAATCAGAAGAAAG
GTAAAAGCAAGTGGCCACATGATCGCATTAAAAAAGAAAAAGGCAAATATCTCAGTAAGT
ACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence=4782;DNA;Homo sapiens

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TTTNTNNNNANTTNGGGGGGNNNNNAAAAAAAAAAANTNGGGGNNNNAANNANNCNNNNN
CCAAAAAAAAANCCCCCCCCCCNNAAAANNANTNTAAAAAANNNTTNTTTNTAAANGGGG
AAAACNCNNTTTTNNGNCCANAGGNGGGNNAAAAAAAANACCANNCNNNGNNNCNTTTTT
GNAANGGGGGGGGGNAAAANTTTTTTCCCNGGGGGGNNAAAAANCCCGGGGGGAAAAAAA
AAAAANCCNCCCNAAAAAAAAAAAAAATTCCGGGGGNGGGNNNNATANANCCCCCCNCCG
GGGGGGGGGGNNNNNTTNCCCCNGGGGNNGGGGNGNAAAAAAANNNGGNGGNNTTCCCCC
NCCCCCCCCCNNGGGGNGGGGNNNAANNANGTTTTTTTTTAAAAAAAAAAANNCCCCNAA
ANNNNNGNNNNGGGGGGGGGNNGNCCCCCCCCCCCCCNNTNNTTTTTTAAAAAAAANANN
CNCCCNTTTTTTTTTTTTTTTNTTNTNNGNGGNAANNANNNCCCTTNAAAAAAAAANAGG
GNNNGNGGTTTTTTTTCCCCCCCCNGGGGGGGGGGGNNNNGTTTTTTTTN

Sequence=4783;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTTT
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AAAAAATTAAAAAAAANNNTNNNNAANNNAANNNANAAANNNTTTAAAAAAANNNTNCNAA
AANNTTNATTGAAGGCTTNANAAANATNTNNTNNAAGGTTTAGGGTTANNAANNNAAANC
TTNTAAAATGAAA

Sequence=4784;DNA;Homo sapiens

GANAAAGGGTTTTACTATGGAGCCAGGCTGGCCTTGAACTCACAGCAGTCCTNTAGCTCC
AGCCTCTTGAATGCTGGGATTACAGGNGNGAGCCACCATGCTGGGCTGTGTCTGGAATGN
CTCCTTGAACAANANGNGCAAGGATGTGTCTGAAANAAAGACAGTCTGAGNGGGCTCTGC
TGTACATCAAGCAAAACACCAACCCCTTGCTTAACGCCATGANACCTNGGCTCACCCTGT
CCAGGTCCCAGGGACCCAA

Sequence=4785;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACAGAAAAACAACAGCAAAGCAAGCAGAAA
GAAGGCAGAAGAAGGAAGGAAACCATAAAGATAAGGAGAGCAATTAATGAGCTAGAAAAC
AAAGTAATAATGCAGAAATCAACCCAACTAAAAGCCGGTTCCTTGAAAAGAGTGATAAAG
CCATCTCTGGCAAAGAATGACCCAAGGGACGAGGAGGAAG

Sequence=4786;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGGCGCAATCTTGGCTCACAGCAGCCTACA
CCTCCCGGGCTCAGGCCATCTTTCCACTTCAGCCTCTGAGTAGCTGGGACCACAGTTGTG
CACCACCATGTCTGGCTACTTTTTGTATTTTTTGTAGAGAGAGAGTTTCACTATGTTGCC
CCGGCAGGCCCGGAACTCCTGAGTTCAAGCAATCCACCTGCCTCAGGCCTCCCAAAGTGC
TGGGATTACAGTCGTAAGCCACCACGCTTGTCCAATAAATGGATTTTAATGGAGGAGTTA
GAAAAGTTCTTTGGTGTGGTTTCAGATTACACTTCACAACCAACCTTAAAGAAACTACTA
CTGGATAGTATTAAAGAAGAATATCCACAATTATCTGTAAGGGCTAGCCCTTTTCCATCT
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Sequence=4787;DNA;Homo sapiens

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NCCANGNTGGNCTTGAACTACTGGGCTCAANCAATTTACCCGCCGNCATGGTCTCCCAAA
GTGCTCANATTATAGGCATGACCACTGTGCCTGGCCAACATNAAACCATGTGTTATATAC
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Sequence=4788;DNA;Homo sapiens

TABLE 2

734/3461

CCCTTAGCGTGGTCGCGGCCGAGGTACTTNATTTTTTTTTTTTGNTTTTTTTTTTTTAGCAA
AGATTCACTTTATTTATTCATTCTCCTCCAACATTAGCATAATTAAAGCCAAGGAGGAGG
AGGGGGGTGAGGTGAAANATCACGCCACTGCACTCCAGCCTGGACAACAAGAGTGAAACT
CCGTCTCAAAAAAAAAAAAGATTCCATTTTAACCAACAGAGAGCTGCACCAACATGTTTG
ATTNTGGGGTTGAAGAGACTGGGGGAAGTCAGGGATTAGGTGCACATTCTCACATATATT
TTTGTAGGAGTATAAATTGGCCCTGNATCTGTANAGAGTAATTTGGCAATATTGACCAAG
ATTTAANAATGCACAAGCCCGCGTTCCTGC

Sequence=4789;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACTGCTAAGCTATATATTGAGCACATCCAGT
TATATTTAAGGTGGTTCTGTTAGTCCAATTTCATACTGATATAAAGAACTGCCTGAGACT
GGGTAATTTCAAAAAGAAAGAGGTTTAATTGACTCACAGTGCAGCATGACTGGGGAGGCC
TCAGGAAACTTACAATCATGGTGCAAGGCAAAGGGGAAGCAAGGCACCTTCTTCAAAAGG
TGGCAGAAAGGAGAAGAGCTGAGCAAAGGGGGAAGAGCACCTTATAAAACCATGAGATCT
CAATCATTGTGCAAAAATCACAAGCATTCTTATACACCAATAACAGACAAACATAGAGCC
AAGAGTGAACTCCCATTCACAATTGCTTCAAAGAGAATAAAATACCTAGGAATCCAACTT
ACAAGGGACATGAAGGACCTCTTCAAGGAGAACCACAAACCACTGCTCAATGAAATAAAA
GAGGATCAAACAAATGGAAGAACATTCCATGCTCATGG

Sequence=4790;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCACAACTGGGTTTAGCAATTCGGGTAGGCACAG
CAGGTCCGGCTTGGCCCTGCCTGCTTTGACTGCCTTTTCGGGAGTTTTAAACCTCCTACA
CTCGGAATGTAGCCCTGATTGTGGTTTCTCTGCATAGCAAGTTCGGACTTAAGCGGAATA
AGTATCGGCTTATTTCGCCTGCGATAAAGATGCTTAATTCTGCGTTCGAAATATTCTGAG
CGAGTCCTGGGTTAGGGATTTCTTAGAGTAACAAGTGCATGCTTCGATTTTAAGTGCCCC
TGTGAATGTGATTTCTTAGCTCTTGCAAGTCCATATTTGGTCGCAACCAGTACCTGCCCG
GGCGGCCGCTCGAAAGGG

Sequence=4791;DNA;Homo sapiens

CCCTTANCGNGGNCNCGGCCGACGTNCANTTAATATGATTCANTATAATCTGCAGTCTCA
TGTATGGCTTATCAATAATGCCATCATCACTGTATGTCAAACAACCTCACTGCTTACTAG
AAATGCTAAACACTGGAAAAAATGGAATTTTATACATTTGTTTTCTTAAATTTTGACAGA
TATTCTTCAGAAAGTTAAAACTGCCTTCCACAAAATTTTGTGTGTATATGGCACAAGGTG
ACAGCCAAAAAGTGTGATTCCATCGAAAAGGCGCTGTTAACAATACTCAAGAATAATCTG
ACAAGTNTACATCAATGTCTGAGTAAAGAATAGGTAAATAGACAAACCCCTATAAAAGAT
AGTATTATNGNTTAAATATACTATTGCTNTATAAAAAGAANGTAACACACAGGAAATGAC
CCTTTTTATGACAAGCCTATANACCCCNTTGAAATCACATTATTAGNTCTTGTAACCACA
AAAAAATGANAAAAAAATATT

Sequence=4792;DNA;Homo sapiens

CCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTNANTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNGGNCCCNNAANANNAAAAAA
AAAAAAANNNNNNAAAAAAAAAAAAAAANCCCCCCCCNNNGGGGNTNAAAAAAAAAANNN
NNNNNGGGGGGNNNNANNNANNGGGGGNAAAAAANCCCCCAAAAAAAAAAAANNNNNTTT
TTTTTTTGGGGGGNNNNTNTNTAAAAAANANTNCCCCNGGGGGGGGNAAAAANAAAAAAA
AAAANNNNNNNNTTTTTTTTTTTNCCC

Sequence=4793;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACTGCAGGCAAATGTGGTTTGGTGCCTGTCC
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CTGTGGAAGGATATCTTGCTGTGGCGGTGGTTAGGAGATCAGACACTAGCCTTACCTGGA
ACTCTGTGAAAGGCAAGAAGTCCTGCCACACCGNCGTGGACAGGACTGCAGGCTGGAATA
TCCCCATGGGCCTGCTCTTCAACCAGACGGGCTCCTGCAAATTTGATGAATATTTCAAGT
CAAAGCTGTGCCCCTGGGTCTGACCCGAGATCTAATCTCTGNCTCTTGTGTATTGGCCGA
CGAAGCANGGTGAGAATAAGTGCGTTCCCAACAGCAACCNAGAGATACTACNGCTACACT
GGGGGCTTTTCCGGTGCCTGGCTTAAAAATCTGGAGACGTTTGTATTTTNTGAAAGATTT
CACTTGTCTTNCAANAACACTTGATNGAAAATAACAATGAAGGCATTGGNCTAAAGGATT
TGAAANCTTGGCAGACTTTTGCGCTGCTTTNCCCTCNATNGCAAAACGGAAACCCTTTGA
CTGANGCTTAGAAACCTGGCATTNTTGCCATTGGCCCNCNAATTAATGCCCNNGGTGTCT
TNNGGATGGGATAAAGGTGGAACNCCCTTAAAAAAGGTGCTTGTTTCAANCAACANGGCT

TABLE 2

735/3461

NAATTTGGGAAAAAATGGATCTTACTTCCCCGANAANNTTTTNTTANTTTCANTTTTTAA
ACCAAANAAAAAAAAAAA
Sequence=4794;DNA;Homo sapiens
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TTAAAGACTTCCTCAATCGGGATACTGTTCATTAAGATTCCAGCATAAGATGATAAAATC
ATAGCTTCTCGTTCTCTACGATTTGGATATATGGGTCTGCCATGGAGTGGTATTTTCAGT
TCCTCCCACTCCAGCCAAGTTAAGTCTTCTGAGGGATCCAGCCATTGCAAAGCAACACTG
ATGGCCAAATCATAAGTGTGCCATATCATCTAGAAAGGTGAGTTGCCGTCTTCCTTTTGG
GTCAAATTTCAATTTTCCCCGAAGCTGATGCCAATATAATCTCCCAAGAGCTTTTTCATT
TCCTTCTTTATGAGCCTTCTTTCCATGTTAAAGGGCTTAGCCAGCTTGAGCAAGGTATTN
TGCAGTTTACACTAACACTTAGACCCAGCTTTTTNNTCCCCGCGGTACCTGCCCCGGGCG
GGCCNNTTCGAAAAGGNCAAAATTNNACCCCNCNTTGGGGGCAGGTTCTTAGGNGNAATC
CANGNTTNGGTANCAAANTTTGGGNAANAAAGGGGCCAATGNTGGGTTNCCGGGGGGAAN
ATNNNNNANNATTNNNAAAAAATTTC
Sequence=4795;DNA;Homo sapiens
CCCTTANCGTNGNCNCGGCCGACGTACNCNAAATACTTCATACTAAACTTTCTAGAGAAT
TAAACTTTAATGATGGGCTCAAANNANANANAACCNGCCNACTAATTTGTTCCTGCCCGG
GCGGCCGCTNAAAAGGGCGAATTCC
Sequence=4796;DNA;Homo sapiens
CCCTTACGTGGCGCGGCCGAGGTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTAAAAAAAAAAAAAAANNNCNNNTTTTTTTTTTNTTCCCCCCCCCCCCCCCCNNTT
NNTNNAAAAAAAAAAAAAAAAAAAACCCCCNCNNNNCCNNGGGGGGGGGGNNNTNTNT
TTTGGGGGGNNNAAAANNNCCCCCCCCCCCCCNNAAAAAAANNNGGGGGNNNCCCCNNNN
GGANNNNAAAAAAAAAANNNNGGGGNTTTTTNNNNNANCCCCCCCCCCCCC
Sequence=4797;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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Sequence=4798;DNA;Homo sapiens
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GGCCGCGACCACGCTAAGGGCGAATNCCAGCACACTGGCCGGGCCGTTACTAGTNGGATN
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Sequence=4800;DNA;Homo sapiens
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TABLE 2

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CTTAATGATAAGAACTGGAAATCCTTTTTCTCAAGGACGTGGTCCAGATTAAGTTTGCAC
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Sequence=4808;DNA;Homo sapiens

TABLE 2

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CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAAGAGACTATGGAAGAATTTCAGGGTAGC
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Sequence=4809;DNA;Homo sapiens

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Sequence=4810;DNA;Homo sapiens

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GCCTATGTGTTTTATAAACATGTATTAGTATTTGCCTNGTATAGGGCTTACTATGGGCTA
GAAACTTTCTAGAAAGCTTTAGAGATGTGAACTCATCTAATATATGATTATTAACCCCCC
ATTTTACAGATAAGAAAATGGGANGCAAAGACAGATTGGATAACTTGCTGAACTTGGTGG
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Sequence=4811;DNA;Homo sapiens

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GCTACTCTCCCTTTACCATCCCAGAAGCCAAACCAATACTGCGTGGCCCAAGACCTCAGC
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Sequence=4812;DNA;Homo sapiens

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ATCATCAGGNGCAAAATGAAAAGGTTGAAAAAA

Sequence=4813;DNA;Homo sapiens

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Sequence=4814;DNA;Homo sapiens

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TABLE 2

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Sequence=4816;DNA;Homo sapiens

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Sequence=4817;DNA;Homo sapiens

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ATANA

Sequence=4819;DNA;Homo sapiens

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GGGCN

Sequence=4820;DNA;Homo sapiens

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TABLE 2
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TABLE 2

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Sequence=4833;DNA;Homo sapiens

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Sequence=4834;DNA;Homo sapiens

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Sequence=4835;DNA;Homo sapiens

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TABLE 2
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AGTAATCACTTTTATGAAAGACACTTGTGAGGATAAATATAATACAGTGCACAGACTATG
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AGGGGGAATCCCCATATAAAACCATTAGATCTTGTGAGAACTAACTCACTATCATGAAAA
CAGTATTGGGGGAACT
Sequence=4837;DNA;Homo sapiens
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Sequence=4838;DNA;Homo sapiens
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ACCTTGCCCCGGGCGGG
Sequence=4839;DNA;Homo sapiens
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Sequence=4841;DNA;Homo sapiens
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TABLE 2
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AAA

Sequence=4842;DNA;Homo sapiens
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TTTGAGCAATTTAAGTTTTTCCCCAGAATGTCTCCTTTGTTGGTTCCACAAAATGTATTT
TGTTTTTAGTGTTTAAAGTCAACAAACTGGCATTGCATTTTCCTTAACTTACATAAACTC
ATCAGAATTACATGAATATTCCTACTGCTTA

Sequence=4844;DNA;Homo sapiens
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CGGTGAATCAAAGACGGTGGCAGCAGGAGAATTAAGGTGACGCATCCAAATGAGCAAGGG
AGATGGGGGTGGACAAAAAAAACCAATGAAATGTTCCTTGACCCCAAGGTCTCAACANAA
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AGAGTGTCACANCCTGTCTTCACTGGGCAAAAAGTCCAAGTCACTAATTTAGTGCAAAGG
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Sequence=4845;DNA;Homo sapiens
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ATGTCTCATGGTCAAAAGAACTTGGAAGCAAAGACTTAGCCATCTACCATGGCCAAGCAA
AGGAACCTGCATAACCCCCAATAGGCCTGGGCACAGTGGCTCACGCCTGTAATCGCAGCA
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ACAGTGAAACCCCATCTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=4846;DNA;Homo sapiens
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ACAGGATTTAGGCCATATCTATTTAAAAGAAGACTAACAAACAGACTAGAAACGATAACA
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AGTGTAGAAAATATACTAATGTGTTATCTCCTTAGAGACAGATTTAGAACCATGTCAGTT
ATGTTGCAGATGACAGAGAACAGAAACCTAGTGAAATCAACTCAAGACAATGAGGGCTAC
CATAAGGAGGCCCAAGGAGTAGTTGGATGGACCTGAGGAAGGACAGGAGCCAGAGGCCCC
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Sequence=4847;DNA;Homo sapiens
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ATCAAACATGGGTAATTTTGCAAGAGTTTTCATGGGAAATTATTAGGCATCAACATTACA
GTCCTGATTTGGTTTCTTCTGACATTTTTTCCCTAATCTTAAAATAACTGTAAAGGGCAC

TABLE 2

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CCATTTTTCTTTAGTTAATAATAGAAGACTGCATTGACACGGTTAAATTCCCATTACCCT
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AA

Sequence=4848;DNA;Homo sapiens
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CGCCACTTTTTTCACTTGGCACAGTTCTCCAAATTAATTGTATTAGTAGCAGAGTCATTAT
TCGTATTAGATTTGGGTGTGAAAGAAAGAGGACTTAAGGATGACTTGAAAGTTTCTGGAT
GGCTGGGGATGTTAATTATTGGAGAAAAGGACTTCAGGAAGACCAGGTTTGATTAAGAGG
GTGAACAGTGGGTGTTGCTGGTGGTGGTAGTGATTAGGAGTTTAGCTTCTACCCCCAAGG
ANAGTTTTGGGATGCTTATTTGNAATACCAAAGAGGGAAGATNTCNAGGGAAAGTACCCT
GNCCCGGGCGGCCGCTCGAAAGGGCAAAANNTCCAAACNCACCTGGCCNGNCCGGTTTAC
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Sequence=4849;DNA;Homo sapiens
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TAGAAAGAAGAAGGCATGCTTCAAATAGGAAGGAATTGTAATAATGATCTTTGGCCTNTA
CTTTGTCTTAGCTGTNAAACCGAATTTAGTNTTNANGTTAAATATTTGCAAAGGGAAAGC
ATTTTCTNCAGAGGATAATTNATTTCAAGAA

Sequence=4850;DNA;Homo sapiens
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GTCTCTGTCTTCTTCAGTTTCGACTTATCGAATTTCTCGATCTCAGCCATATCGGGTTTG
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TCCTTTTAAAAATGTCTAAATTTGCTTTTGCCATGGCGCTAATGCTAATGGTAAATTATT
GATTGCGTGGCCCATGT

Sequence=4851;DNA;Homo sapiens
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GGCTCTTGTCAGGAATACCAGCCCTGGCTGGGGCTGGTGCTCAAAAGAATTTTCAGGTGC
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Sequence=4852;DNA;Homo sapiens
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ANGGGATAGTGTTGTTNACTTTGAAAAATATCTNTTCTTGTTGNAAGATTCANCANGGTC
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AGCNNGATCATTNTNNATNTTNNTNCTNTTTANCNTNACCTTTTTNTNCCANTTNTTNNN
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Sequence=4853;DNA;Homo sapiens
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GATCTGTGAAATGATCTAGTTGCTTTATCTATAGTTGCTGGAGAATTGAGTGTTTTGATC
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AATTTGTGTCCAAAATATCTCTAAAGGTATTACACTGTATTCCTTTAATCTTAATGATAC
ACTTTTTTTTTCTTATAAATGTANCACATTATACACTAGCGGTCTTCAGTATGATAAACAG
ATCAACTACCAATTTCATTGCCATTACTCTTTGAAATAGTCCTCATTGAGAGTTCTTGAA
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TABLE 2

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ATTGACAAATCTCTTGGGGAGACCACATACTTATTTTTAACAAGAATGAATGAAATATNT
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AATTTGGGA

Sequence=4854;DNA;Homo sapiens

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ACTCTGAGGGACCATCCCAGCTTCAGAGCTCTCCGTGTGGGTTACTGAAACTGTATCACA
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CCTCCCTAGTAAATTTGCTG

Sequence=4855;DNA;Homo sapiens

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GTGCATTTGGGATCAAACTTAGCTCTTAGATCAGCAAACCTGACTTGCTCCTACTTTTGC
AATTTTTCAGGCCTTACCATATTTCTTATCTCTGTCTTCCCACCTGATAGGAAAATCTTG
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Sequence=4856;DNA;Homo sapiens

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CCCCCCTTTTTTTTNTNNNNGGGGGGGGNAAAAAAAAAACCCNNAANGGNTNCCCCCCCN
NGGGGNTTTTTTTTTTTNAAAAAAAAAAAANTNTTTTTCAANNTTNNCNNCCNAAAANNA
NNAANNGGNNCANANNCNNNTTTCTGGNNGNANTNAATAAAAAAAAAAAANTNNTTTTTT
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Sequence=4857;DNA;Homo sapiens

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Sequence=4858;DNA;Homo sapiens

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TNAAGNTGACCATTCTGGATTCATTCTACCANCCATGANGAGANGACTTTNTAAATCTCA
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Sequence=4859;DNA;Homo sapiens

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Sequence=4860;DNA;Homo sapiens

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TABLE 2

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Sequence=4861;DNA;Homo sapiens

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Sequence=4862;DNA;Homo sapiens

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AANCNCCCCCCCCCCCAAAAAAAAAAAANTTCNNNAAAAAAAANNCCCCCCCCCCCCCCC
CNNGNNNAAAAAANAAAAAAANCNTTTTTTTAAANNGNNTTTNTTTTTNAAAAAAAAGNG
GGGGGGNAAAAAAAAAAAAAANGGGGGGGNNCCCCCNTTTTTNAAANCCCCCCNAAAANN
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Sequence=4863;DNA;Homo sapiens

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TAATTTTAAA

Sequence=4864;DNA;Homo sapiens

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Sequence=4865;DNA;Homo sapiens

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TABLE 2
746/3461

Sequence=4866;DNA;Homo sapiens
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Sequence=4867;DNA;Homo sapiens
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Sequence=4868;DNA;Homo sapiens
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CCCGCTCGAAAGG
Sequence=4869;DNA;Homo sapiens
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ACAAAGTCTCGCTCTGCCACCCATGAAGATGGTTCTATTTGAAAGTAATATTTAGGCCGG
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Sequence=4870;DNA;Homo sapiens
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CTCAAAAACAAAACAAAACAATACAAACAAAAAACCTTTGACTCTTGAAAAAATTATATC
CACTTCCAACTGATGAGGGGTTAAATGATTGAAATTATCCCAAAGAATATGATGCAGGTC
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Sequence=4871;DNA;Homo sapiens
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CCCCCGCGTACGTTAGTCTGGGGATAGTAAGTCTGGGTTAATCTATTATTAAATTATTAG
CCTGGGTCTCCTTGGAAGCAGACAGNGAGACAAGGACTTGACTTCAAATGGTTTATTTGA
GATATAATCCCAGAATATAATGATTAAAAAGTACCTGCCCGGGCGGCCGCTCGAAGGGNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
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TABLE 2

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AACATAACGAGCCCGGAAGCATAAANGTGGTAAAGCC
Sequence=4872;DNA;Homo sapiens
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AATAGATGTCCCAGATATTCGCTTGAAGCGAACCCCATTAAGTGACAGTCGTGGCAACTT
GCAGACTTCCATCTCCCACTGCACGAGGCTATCCTGTCTAGCGTCTCCATGGACACAGAA
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TTGTTGTATTTATATTATAAAAGGCCATTTCCCAAATCTAGAATTTATTACTAAAAATCA
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ACGCTAAGGG
Sequence=4874;DNA;Homo sapiens
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TGGGCCCAGATTTACACCCAGGCAGTCTGACTTCACAGCCCTTGCTCTTGGCAGATATTA
AAATGCCATGCAGTAAATACAAGGAATAATGTGAATATGAAGAAAGAAACTCCTGAATGG
GGGTGGGATGGGGATACTGTTGTTAGAGAAGGGAGAGAAAAGTGGAGTAGAGAAGGTTCT
CCTTAGAGCTGACTGTTTGATCTAAGCTGGGAAGGAAGAGTAGGAATCATTCACATGGAT
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GCCTCGGTGGCCAAAGTGCTGGGATTACAGGTGTGAGTTGTTTTTTTTTTAAAAAAACAG
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CTTAAATAAAAATACNAAATANGAAAANGTATGTTTAACTCTAACTCAANAAAAGGTATT
GTAAAAAACAAAAAGGTT
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TABLE 2

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AAAAANNNCAAAAAAAAANNNNNNNTTTNNNAAAAAAAAAAAAAAAAAANTTTTTCCNNG
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GGGATTTTTTTTT

Sequence=4879;DNA;Homo sapiens
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CCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence=4880;DNA;Homo sapiens
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Sequence=4881;DNA;Homo sapiens
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Sequence=4882;DNA;Homo sapiens
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GGTTCATCAACATCAATTCCCTCAGGCTGAAGGAATATCATCGTCTCCAGAGCAAGGTCA
CTGCCAAATAGACCCGTGTACTATTTGATTTTTGCCTTAGTGATTAAAGGAGGAACATAT
GTGGAAACAATCATCAGATCTGAATGCTACCTCGTCTGCTTCCTATTTTTGTCATCTAGG
ATGGGTCACAATATTCTTGAGCCTATTTCTTCATCTTAAATCTCAATATAGAAGTTCCCA
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Sequence=4883;DNA;Homo sapiens
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AGGGGAGCCCCAGGTTTTCCTGGCCTCCCGGGCAGAAAAGGGGCCATGGGAGATGCTGGA
CCTCGAGGACCCACAGGCATAGAAGGATTCCCAGGGCCACCAGGTCTGCCCGGTGCAATT
ATCCCCGGCCAGACANGAAATCGTGGTCCACCANGCTCAAGAGGAAGCCCAGGTAAAGGG
TTTACTTTTAAACAGCATAAAATAACAAAAATCATGTTTGACCTCAAAAGTTTTTCAACC
TTCTCCTCATGTTACCTTGTTGCTTNTTNTTTCCCTGTGGTCATNTTCATTCCCCCACTA
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GTTAAT

Sequence=4884;DNA;Homo sapiens
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NGACCCTGANNTCTTGNNGNACTCACTGNATAGATGTTATNANAACTCCTTCCAGTTNAC
TNNNNNGCCTGACTCCTGCCAGCCCTATGGAACTCCTTTTTGCATTGGAGGAAAAGCATG
TACGGCTTTTCTCTTGACNGCNGGAGAAATACAAAAGAAGGGGAAGGGGAAGAAAAGAAG
GGGANGANNATCTTTTATTACTATACAATGACACCGNTCNTGTGAGCTCACCANNTGCTG
GGTNNNNNANCCNTNTNNCTGNGGATTTTTGAAGACTAAAGAAGTTTTTACCCTAGATCT
CTTCCAGAACAAAATANAANTTTCAGCAAATACTTACTGACCTTTAAAGCCTTGTTGTGG
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Sequence=4885;DNA;Homo sapiens

TABLE 2

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CCCTTCGAGCGGCCGCCCGGGCAGGTACCAGACCTGGAAAATGCTTCAGACTTTACACAG
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TCAAGACTCTCACTGATTGGAGAGCTTGTGGAAAACAAAACACACCATGCCAATAAATGA
GATGAAAACTTGAGTTTGCCTTTTTAACTATTTATGTTCTAAGTTAAAGCTTTGATAACA
TTCAAATGTCAAATTCTCTCATTCTTATAAAAAGTTGAATTAATTGCCTGTATTTATTTT
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TAAAATATTT

Sequence=4886;DNA;Homo sapiens

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CCCNTTTTAAAAAAANNTNCNTTNCCTTGGAAGGGTAAAAANTTTNGGNNCCCCNCNAAA
ANGGNCCCCANCNTGGNNGGAAANCCCTTTNGGGGNACCCNTNGGNNAAAACTTTTTTTG
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GTTAAAAAAAAAAG

Sequence=4887;DNA;Homo sapiens

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AAAAAGCTAATATCAAGTGTAAAGACCCTGGGTCAAAACAGAGTTACTTAGGAAGTCATA
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TGTGTAAATAGTGATTTAAATTCTCAACTAATTATTTGCTAATTAGGAACTTTNAAAAAA
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Sequence=4888;DNA;Homo sapiens

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TCTTGTGACATACACCTTGGCCCAGCATCTGAGTTATTTGTCTCTTTTTCCTGGGCCCAG
TTCACAGTGCTGTATCACTGGACCCAGACCCTTGGTAATGTGATTGTATTCTGCCTTGAT
ACAGCCCATAAGGGTCATTGTGACATATCACAGGGTGTTGCACCCAGGTGGTTTGAGTCT
CCTCTTCTGCCTTGGTGCTACCCACAGGTGTATTGTGACATATTGCTGGGTCTGTGTTAT
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Sequence=4889;DNA;Homo sapiens

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ATTCCAACCTNCAGCACCGACAAAAGCAAAAACACACTCGCTCTGAGAAACCGAGGAACG
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Sequence=4890;DNA;Homo sapiens

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TTCTACAACAAGAAAACCGGCGAGTCCTTCTTTACACTCCCCCCAGAGTCCATTGCCCCA
TTCCATACCTGCTACTACACCCGGCTCTTCTGGGAGTGGGGAGATGGCTTCCATATGCGC
GATTCCCAGAAGCCCCAGGATCCAGACAAGCTGTCCAAGGAGGACGTCCTTTCCTTCATC
CAGAGTCACAATCCTCTAGGCCCTTAGATTTCCACCTGATGAATGTCCTGTCATTCTTAA
GGCAGGGCCCAGTGACTGGGTTCCTTCTGCCTCTTAGAAAGGCACTGGGACTGTTCTCCC

TABLE 2

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TGGTCACAGGGAGATGGGCTCCTCTCCATTCCCAAGGAGCTCAATTGGGACCTTAGAGGA
CGTATCCTTGTGGAACTCTGCTGCCTGAGAGCTTGACACCAGCAGCAGGCAGCCTCCAAA
GCAGCTGCTTCGGGGCAGGTCAGTGCTTTAAGCACTTGCCANANTGGCAGGCTTTTGGGC
CCAACCATTCCCATTGTAAATATGTGGGACTCAGCAGTGNTTCTGAGTTTCATTTNCTGG
TCCCCAAGAACAGTCANCTTCTTGTTTTTGCCCAACTTTTTTACTAAGGCTAGCCAAATT
GTGGGAGCCCCTCCATNACCGGGCTGGGCCAAGGANCCCCCTGTNGNNCCAATCAAAANT
TGTTTTTTGNGGGCTTT

Sequence=4891;DNA;Homo sapiens

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GAACCTCCGACCAGCCTGCGCATGGGGAGAACGGGATGGAGCCTCAGAAAGTTTGTGCCA
TTGTTTTGCAGTGGGGAGGAGCCTGGCCTCTCCTGTTCTGGGGTGGAGTCTCGCTTTGCT
GAGAGTCCTTGTTTCCCTTTTGTTCCCTTTTCCTCCCTCAGCCCCTTCTCACCCCTTTGC
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Sequence=4892;DNA;Homo sapiens

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ACACACAC

Sequence=4893;DNA;Homo sapiens

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AGGCCTTATTTTGCAATTATGGGAGTAAACAATAGTCTANANAAGCATTTGGTAAGCTTT
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Sequence=4895;DNA;Homo sapiens

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Sequence=4896;DNA;Homo sapiens

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ATTTTAANAGTTTTTAGCAAAAAANATATTTTTGAACTGGCNCAGCAAAAGCAAAGTTGA
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CCTCCATTCTACATCCCACAGTTCTTCCAACGTGNGGCACAGTATGGCCAGGGCTGNGGC
GGAATCCAGTGCTATCCANTCCATAAGCCACGTNTGACGTTATCAAGGTTGACCAAGAGT
GGGACCAAGTCCAACAGTAAGCATGGCTCTTTCATATAGGACTATTTACANGACTGCTGA

TABLE 2

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GCAGAATGCCTTATAAACCTGCAGGGTCACTCATCTAAAGTCTAGCGACCTTAAACTGAA
TGATTTAAAAAAGAAANGAAAGGAAAAAAGAAACCTATTTATTCTCCGATATTTTNGTTT
TGCACAANCNAAAGGCANATGGCTGGACTTNTGGGAANGAATCAANCCAATGGCCAACTT
TAAANNGANTNCANNTGAAAAACCAAAA

Sequence=4898;DNA;Homo sapiens

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TTTNACAAGATTTATTTTGAAAATTGGNTTTTTGCAAGATTGGTATNATTTCTGGATTGA
ATGGATTTTNTAATTGGGAATNACCATAAAAGAATTCCTTATNNCCAAAAAAAAAANNAA
AAAAAAAAAAAA

Sequence=4899;DNA;Homo sapiens

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ACCTGTCCGCGCAGCAAATGAAAACAAGACCTGGAGAAGTCCTTATTGATTGTTTAGATT
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ATATACTAACAAAATG

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CTCAGTGAACAGAGTTGACAAGGCCTATGGGAAATGCCTGATGGGATTATCTTCAGCTTG
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TGGGCTTTNCTNGAANCCTTGGGAAGCCCNCGGGTGGACTGGTNTTTACATTGTTGTTTT
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TNTTCCATTTTCCGNAAAAAAAAAAAAAAAAAAAAA

Sequence=4901;DNA;Homo sapiens

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CCGCNACCACGCTAAGGG

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AGGGAGACGCCCTCTTAAAACAAACAAACAAACAAGCAAAAGCCCAGATCACTGGGCCCC
ATCCTCAGAGTTTGTAATTCAGTAGATTTGGAGGGTAGTCCAAAATTTCTGTTTCTAAAA
ATTCTCAGATGATGCTGATGCTGCTTGTTCAGGGACCACACTTTGAGAATCACTGGTGTA
GGATACTGTTAAGTGAGATGAGTGAATGTAAAAATATATTTAATCTGGTCCAATTTTTGT
AAAATAAACAACTCCCCAAATGCTATACATATGTGTATTCATATGAAAAAATATGACAAA
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Sequence=4903;DNA;Homo sapiens

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GCGGCAGCCAAGCATTCTTCAATTGGGGGCTTAGGGTGTGGCTGTTGACAACACATTTTA
TTATGGGGTCTTTAATGATAAAATATTAATCTAAAAATAAGCCAAAAATTACAGGTTTAT
TTTTCACTAAACAGACAATTGAAATACATGGTACAAAAATAAGTGGTAAGATTATTGTAA
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TABLE 2

752/3461

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Sequence=4904;DNA;Homo sapiens
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CTACAAGTGTGCCAACTTAGAATTATATTAGCCACACCCAGCTAATTTTTGTATTTTTTT
GNAGAGGCAGGGTCTCCCCATGTTGCCCAAGGTTGGGTCTTGAACTCCTGGGCTTCAGNG
ATCCACCCATTTNGCCTCCAGCAAAGGGCCAAGATTACAGCCATGGACCCCATGCCCAGC
ATAACTATTTTTAATGAAAGTAGACTTTAAAAAAGAAAAAGTNTTTATTAGAGGTAAGAA
GACCCCCTCNCCAGAAAAGAAAAATTTTACTTAGGGGCCCAGGCCCCAATGGGCTCGGGC
CTGTAAATTNCCAGCACNTTTGNGANGGCCAAGGNNGGGGGAACACCTGNGGGTNGGGGG
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Sequence=4907;DNA;Homo sapiens
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Sequence=4911;DNA;Homo sapiens

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TABLE 2

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Sequence=4917;DNA;Homo sapiens

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Sequence=4918;DNA;Homo sapiens

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Sequence=4919;DNA;Homo sapiens

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TABLE 2

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Sequence=4929;DNA;Homo sapiens
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TABLE 2

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TABLE 2

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Sequence=4935;DNA;Homo sapiens
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Sequence=4939;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAATAAATATTTATCTTTTGTATTGC
TAAAAAAAAAAAAAAAAAAAANTTCCTTNNNNCNGNNCNNCCNTANGGGNAANTTCNAAN
NNTTNGGGGGNNGGTTATTAAGGANCCCNCTANGGAATCAANTCNGGNTCAAATAAANNC
ANNTTCNACCCTTACTACACAATCAAAGACGCCCTCGGCTTACTTCTCTTCCTTCTCTCC
TTAATGACATTAACACTATTCTCACCAAGACCTCCTAGGCGACCCANACAATTATACCCT
AGCCAACCCCTTAAACACCCCTNCCCACATTNAANCCCGAATGATATTTCCTATTCGCCT
ACACAATTCTCCGATCCCGTTCCTAAACAAACTANGGANGCGGTTCCTTTGC
Sequence=4940;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACACAATAAAACACAAATCCAGCCCCAGGATCA
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TABLE 2

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GAATGGATTATATTAGGATGAAGGTCACCATATACCCAGCTCTCCTATAAATTACTTAGC
ATGGTATATATGCTAAACATTAGCAACCTTTACTTATTATCTTGTTTATAAAACTACATT
TTGACCATGAGATTTTTTTTTATGGCCTAAAAAGTTTTTTTTTAATATGCTAAACATTAGCA
ACCTTTACTTATGATCTTGTTTATAAAACTGCATTTTGACCATGAGAATTTTTTTTTTAAT
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Sequence=4941;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCTACCAAGTAGAAGGCACTATGCCAGCACTGCA
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ATAAAATATTTACATGAGTTTTACATGTAGGAAACTGAATGAAAAGAAAACATTTAAAGT
TGATGATATGTTATCAAAAGTAGAGAAAATGAAAGGAGAGCAAGAATCTCATAGCTTGTN
AGCTCATTTGCAGCTTACATTTTTGGTTTCTTCCACAAAAATGATAAGCCATCACCAAAC
TCAGAAAATGAACAAAATTCTGTTACCCTGGAAGTCCTGCTTGTGAAAGTTTGCCAAAAA
AAAAAAAAAAAAAAAGTACC

Sequence=4942;DNA;Homo sapiens

CGNCGGCCGCCATGTGATGGATATCTGCAGATTCGCCCTTACGTGGTCGCGGCCGAGTAC
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NNGGNGNATTNTAAAAAAAAAAAAAAANNTTTTTTTTTTTNNNNNNNNNNNAAAAAAANNN
ANANANCAATTTNNNNNNANATTTTTTNTNNNAANNNNNTTTNAAAAANNNCCCCCNNNN
NTTTTTTTTNNNNNNNNNNTTTTTNAAAAAAAAAAAANANNNNNNNNNTNTNTNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNTTTTTTTTTTTTTTTNNNNTTTTTNNNNNGGGG
GNNNNAAANTTTTTTT

Sequence=4943;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAATTTAATTACATCATCTTACTGAACACTA
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AACGTATGAATTTTTTTCAATACAGCCAAGATGCTGGCTTCTCACCTGTGAATATAGTTT
TCACGATTGGTAGGTAGATCATAATTTATAACCAAAGACACTTGTTGCACATCAATCCCG
CGAGCCAACAAGTCAGTAGTGATCAGAACACGACTTGACCCTGACCGGAATTCCCTCATG
ATAACATCTCTCTCCTTCTGGTCCATGTCACCATGCTGCAAATTAATAAACCTTAATTCA
AGAATCACCAAGTCAGGTCGGTATTTAATTTTAATCAACATGTATGAGACCAAGCGTCCC
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GGGA

Sequence=4944;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTCCTAATTTGT
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NTTTCTAAACTTATCAAATCATCCTTTGCTGGCATTACATTTTCCAGGTATAGATCCTTC
ACCTTCCTTTTGCTTTGTCACANAATGACTTTTTTNTCAAATCATAGTANAGTCTNTAAG
TATGCCTTTCCTATAGCAATACTACACCTACATAAAAGCTGAACTTACAATNTGAGATTA
AAAGATATTGCACAAAATGTGCAAGGTTNTTGTACNTGCCCGGGCGGCCGCTCGAAAGGG
CA

Sequence=4945;DNA;Homo sapiens

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ATTGCCATTCCCATGTGTCTCAAGGAAGCTTAATGAGGAAACTAATGAGTTAATATTAAC
TCTTCTGAAGAAAGCTGACATTTTAGGAGTATTAAGTCATCTGTCCGTTAATGAGCAGCA
AGAATATATTATGATTGTATCACATGTTCCAGAAGAGCATTACCCCTTACATAGAAAGCT
CCTTGGAGATTTCATGATGTTGGATGAACATCAGTTTATCCTTATACATCCCTATTGAGC
TATAATTATCCTCATTTGATACTTGAGGGAAACTGAAGTGACTTGCTCCAAAGTGACTA

Sequence=4946;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTGTTTTGATTTTTTTTAAACTAAAG
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NCCCGGGC

Sequence=4947;DNA;Homo sapiens

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TABLE 2

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GGATATCCACATGCAAAAGAACGCATTTGGACTCTCATCTTATGCCATATATAATAATGA
ACTCAAAATGGATTAAAGACCTGAAACCATAAAGCTCCTAGAAGAAAACATAGGGAAAAA
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CAAAAATAAGTTTAAAAATAAGCAAAAAATAAGTTTAAAATAAGCTTAAAATAAGCAAAA
ATAAGTTTAAAATAAGCAAAAAATAAGCAAAAATAAGTTTAATAAACTAAAAACCTTCTG
TACCTCGGCCGCGACCACGCTAAGGG

Sequence=4948;DNA;Homo sapiens
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GGCAAGCACCATACACTGAAGAATTCACGGAAGATTTTAGTCACTTGCTCACTCATCCAC
TTGAAGTAAGAAAAATCAGTCACTGCATGTTTATTGTTCTATAATAAAGCAAATGTTAGA
AATAAAAGTTAGAAATGTCAAACACACTAAATTGTTACATAATAAACTAATCAAGACACA
ACTTTTATTCAGGACATGGATATTTCTGAAATGAAAACAAAAGAAGAGAATTGACTTAAA
ATGTTTATAAATACCAATATTATGACAGAACCAAAGCTATTTATGAGCATTATTTTTAAA
AGCTTGTTTAAGTATTATGCACTTGGCTGTGTGACATTTTGTAAAGCGGAGAAAAATTAA
GGA

Sequence=4949;DNA;Homo sapiens
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AAACCAAGTCAAGGAAGCTGTGAAGGCAGCCATTGATGCTGGGTATCGCCATATTGACTG
TGCGTATGCATATTGCAACGAGAATGAGGTGGGGGAAGCCATCCAAGAGAAGATCAAAGA
GAAGGCTGTGAGGCGGGAGGACCTCTTCATTGTCAGCAAGTTGTGGCCCACCTGCTTTGA
GAAAAAACTGCTAAAGGAAGCCTTTCAGAAGACCCTCACGGATCTCAAGCTGGACTACTT
GGACCTCTATCTTATCCACTGGCCTCAGGGATTTCAGGCAGGGAAGGAGTTATTCCCCAA
AGATGAACAAGGCAACGTCCTCCCCAGTAAAACAACATTCCTGGAAGCCTGGGAGGGCAT
GGAGGAACTGGTGGACCAGGGGCTGGTGAAAGCTCTGGGCGTCTCCAACTTCAACCACTT
CCAGATCGAAAGGCTTCCTNNNNNNNNNNNNNNNNNNNNNNNNACCCTTCCACAACCTTCC
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Sequence=4950;DNA;Homo sapiens
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GACATCTGTCCTAATTAGTTTCTTAAATACATTTACTACTTAATGGTTTTGAAGCAACTG
TTTAATTTTTAAAATTTTTGAAAACTTGCTAATAACCTTTTGTTCAGAATTTANTAGATT
GGTTAATGCAGGACATCAACTACATAATGAAAGATGCTTGAAATGCTTTTGTATTTCAGG
GCCAATCAAATTTAATTCAAACTTTCAACTTCCAGAAAAAACCNTAAGCCTTTTTGGGTT
TGGCCAAACAATGTTATTTTANNGAATGCTTTGGGAACCTGGGAGTGAACTGGATTGGAT
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CNGGGTTGGNNAAAAAATAAAAANAAAAANTTGCCCCTTTTTCNNTTNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNGNNTTTTTTTNNGGGGGGNGNNCCNCCCCNNTNGN
GGGGGGNGAANNTTTNCCCCCCNCCNGNNGNGGGGGGGGGGGTTTTTTTTTTTTNGGGGG
GCNCCCCCCCCCCCCCCCCC

Sequence=4951;DNA;Homo sapiens
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GGCCTAGAATTACCATTTCCTATTTCATTCAACCATCCTATTCATAAGTAAAATAATGTT
TAAAAATGAAC

Sequence=4952;DNA;Homo sapiens
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AAAAAANACTACTATCTAACTCTTACTATCCTTTNATAAAANACATTTTAATACCAAAAA
ACTGCANAGGACATAATCTCATAATAAAGGAAAAGTGATNTAAATGAACAAATTTAGCTT
CATGTAAAACTNTACAATAGTCTTCATTTTCACACTTTCCTCAGGGCCAGTGCAAACGGC
ATTGAAAA

Sequence=4953;DNA;Homo sapiens
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TGGCCAGTGTCATTTTATTTTTTCCCTCCTGACAAATATTTTAGAAGCTAATGTAGGACT

TABLE 2

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GTATAGGTAGATCCAGATCCAGACTGTAAGATGTTGTTTTAGGGGCTAAAGGGGAGAAAC
TGAAAGTGTTTTACTCTTTTTCTAAAGTGTTGGTCTTTCTAATGTAGCTATTTTTCTTGN
TGCATCTTTTCTACTTCAGNACTTGGCCTGGCCCGATTTTCACCTTTCCTTTTTACACCT
CAAGAACAGCAGATAGGTNTGCATAACCACAGCAGAA

Sequence=4954;DNA;Homo sapiens

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TTCTTATAAATTACCTGGTCTTGGGGATTTCTTTATTTAATGTGAGAACGCATGCCCTTT
TGGATCTACTGTTTCTACTTTTATAAATTTATCCTGCAGAAATACACAAATACACAAAGA
TACATGTAAAAAAAGTAGTTTACTGCAGTACATAGTAGGTGTATATAACAATGGGATACA
TGAAATGTTACAAGATAGTATTTGTATTTTCCCTTTTAAACTTTGTGTCTGTTACTTGTT
AAATTTTTACAAAAGTAAAACTAACAGAATAATGCTGGCCCAACACTTTGAGATGATAAC
AAGTCCATATAAGACAGACAAAATTGAACTTA

Sequence=4955;DNA;Homo sapiens

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AAAGTTGCTCTGGAATAATAATTAGCTTTTAGAAGCATTTAAGATCTTTAGGAGACATTA
TAACAACTAAATAGGAGCTCTGGTTCAAATTTTATAGGATTCTTATATAAAACTTATATT
GAGTTTTCTGTTGTAAAAACAGCCCTGTGTTTCTCTGCCATTATTTGGGCTTACAACCAT
AATTAAAGGCCAAGGCTATGCCCCAGATTCCATGTTAGCCATCTTTTATTTTAAAAATAC
CCCAAATGGGGCAAATTCATACTGGGACTGAGACAATGTACCTCGGCCGCGACCACGCTA
AGGG

Sequence=4956;DNA;Homo sapiens

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GCCGCCGGACAGACCGCCGCCCCCGCCGCGTCATGGCCGAGAGTGACTGGGACACCGTGA
CGGTGCTGCGCAAGAAGGGCCCCACGGCCGCACAGGCCAAGTCTAAGCAGGCCATCTTAG
CAGCTCAGCGACGAGGAGAAGATGTGGAGACATCCAAAAAATGGGCTGCTGGCCAGAACA
AGCAGCATTCCATCACTAAAAACACAGCCAAGCTAGACCGGGAGACAGAGGAGCTGCACC
ACGACAGGGTGACCCTGGAGGTGGGCAAAGTGATCCAGCGGGGCCGGCAGAGCAAAGGCC
TGACGCAGAAGGACCTGGCCACGAAAATCAATGAAAAGCCCGCAAGTCATCGCAGACTAT
GAAAGTGGACGGGCCATTCCGAATAACCAGGTTTTGGGCAAAATTGAGAGAGCCATCGGC
CTCAAGCTCCGGGGGA

Sequence=4957;DNA;Homo sapiens

GGTCGCGGCCGAGGTACATTGTATACTGCAGTGCCGNCTACATGGCATTGGACAGGACAT
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CAATTTTTGTCTNAAGTTAAAATACCAAAAACTATTACAGTNGTCTACTGGATTTATGTC
TATATGACAAATNTTGATACTGCATCCACAACATTATTGGCGT

Sequence=4958;DNA;Homo sapiens

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TTGCTATTGTTTCAGTAATGCCCTGGGGGTAAGCTTTTTCTTCCCCCAACTGAGCTGAGT
TCAGAGTCAAATCAAATATCCAGCCACTCTCTCTGAAAAGAGTTTTCCCAGGGAGCTGCA
AGTTGGGACAAAATATTAACTGTGCTCTGGGGATAGTGCCTTCAATGGGGCTCCAGAAGT
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TTCTAAAATGGGC

Sequence=4959;DNA;Homo sapiens

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TCGAACTCCTGACCTCAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAG
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TTTACAATTTAAAAAAATGATCTGTTTTTGNANGCAAAATTGCGAATCTTNGAAATTAAG
AAAGGNGANAAATGTGAAAGGNGGCGNAACTTTTAAATCNAAGTTTTTNGGAAGTGAAAA

TABLE 2

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CTGGGAGCTAATTTGNATNTAATTTCACAAAANTNNTATAACTCTTTNTGNNTATACAAA
ATTTTTTTCNT
Sequence=4960;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTCCTTTTTAAAGTTT
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TGAAATACCCCAAGAGACATGGTTTTTTTTTTTCCCCCTTGAAANANATTNTCCATCCTA
AGGAAATGGTGGGGGGGGTGGGATNTGGGGGGGGTGCAAAATAAGGNCCCTAATTCCCTTG
TNGGANATTTTTTGGGGGGG
Sequence=4961;DNA;Homo sapiens
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AATAAAATATTAATAAAGACATTTATATTTTTATATATAATAAAATGATTAGTTTACCAA
CAATCAAAATAAAAAGATCCCAAAGCCACAGATAAGGATAGCCTACAGTGGTCTTTATGT
TCCTTTGTATAATTCCTTTTTTTTTCANAGTCCAGTCTTGGATGTAATCCAATTGCGATAA
GAAGTCACTCGAGTATAGACACCTGGCTTATTCTTTTTACCACATCCATCACCCCAGCTT
ACTATTCCAACAAGATG
Sequence=4962;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACAAAACAATATAACAACAAAAAGAATTTAATAAT
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TCCCAANTAGCTGGGCCNANAAATNCNTNCCNCCAANGNAAACNCCTTTTTTTTANAAACN
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Sequence=4963;DNA;Homo sapiens
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TTTCCCATCAACTTCTAGTTATACTGAAAACCATGGAACTGTATACAGTTGTGCATCGCC
ACCAAGCCAAAACTAAGATCTTCACGTTACCTTCTGAGAAGTCAGAAGAGGAGTAACAGC
CACATCACCAAAGAGAACAATTTTAGCCAGCATAAGGAAGTCCCCTTTGCTTTAACCTTT
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GCCTTTTTCCATCTATAAAACTAGCCTCTTCTATTTTATAGAAGGAAGTGTTGCCTGATT
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ATTCTTCCAAATTATAAAGACCAAACCTAT
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CCAGCTCCAGACCTGNATCTCTTTCCAGGCTGACAGTGGTGGAAAGTGANGTGGCAAGTG
CAAGAAGGGCCTAGAGATCGGCTACAAAGGGAAAGGAAGAGATGACAAGAAAGGCCGAGG
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Sequence=4965;DNA;Homo sapiens
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TTGAACCCATTTCTGCAGATGTCAAGTTGTGTTTTTTTGTCTTTCCATCATGCTACTTGA
CACCCAAACCAAATGAAACTGGCANCCCGGATTCTTTCAGAGAGATGTTGTAAAAGAGTT
CCCCCAACAACCTCACCTGTTAAACCCCCA
Sequence=4966;DNA;Homo sapiens
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TNGGGGGGAAAAAAAAAAAAAAAAAAAAAAAAAAATTTTTTTNNNAAANNCNNNNAAA
AAATTTTTTTNNNAAAAAAAANTTTTNCCCNTAAAAAAAAANCCCCCCCCCCNNAATTT

TABLE 2

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NAAAAANTTTTNAAAAAAANNNNTTTTTTTAAAAAAAAAACCCNNCNNNNTTTTTTTTTTA
AAANNCCNAAAAAAANNNAAAANNNNNNNNNCCCCNNGGGGNNNNANTNTTTTTNNAAAA
AAAAAAAAAAAAAAAANCCCNNNNAAAAANCCCCCNNNNNNNNNNNNNNNNAAAANNNNN
NNNNNNNNNNNNNNNNNNNNNNNNAAANNNNNNNNNNNNNNNAAAAAAANNNNTTTNNNNNN
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Sequence=4967;DNA;Homo sapiens

TCGNCGGCCGCCAGTGTGAGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGC
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CCNNGGGGGGGNTTTTTTTTNAATTTTTGGGGNNNGGNANNGGGGGNNNGGGGCTTTAAA
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AANGGGGGNCCNGGGNAAAATTTTTTTNAAAAAAAAAAC

Sequence=4968;DNA;Homo sapiens

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TGGCATATTCCCAAGGAATTTACTCCTTTTGATGACACTGCACCCANAATGGAGGAACAC
AGCTNCAAAATGAACTATAAAGAAGGGCTAGGCAGGCATGGTGGCTCACACCTATCATCC
CANCACTTTGAGAGGCCAAGGCAAAAGGATCACTTGACGCCAGGAGTTCACAACCAGCCT
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Sequence=4969;DNA;Homo sapiens

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GTTAAACTGCATGGTTTGAGTTTTGATTTGAGGTTTTACGTGTTGGCATGCATTCAGGGG
CTTGTGTCCCTTCTCCCCTGATTCTTCCCTCCGGGTAGGAGGGAAGAATCCACCTGAGCA
GTGGCCTGCCAGCACTTGAGAGGCTCCGCAAGCACAAGTGTGTTTATGGGAGTTGTGCAC
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Sequence=4970;DNA;Homo sapiens

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AACTGACCAAACTGTTCTTATTACTTATAGGTTTCAGGAGATGTGTTACAAGGCTTATCT
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Sequence=4971;DNA;Homo sapiens

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CTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCGCTGCTTTTGTCTGTG
TCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATAACAGCAGCCTCTGCG
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Sequence=4972;DNA;Homo sapiens

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TABLE 2
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Sequence=4973;DNA;Homo sapiens
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AAGGGTGAATTAAATAAATATTTACTTGGAAGCTACAGTGGGTGAATTAAACAAATATTT
ACTTGGAAGCTACTTTATAGCCACTGGGCTGGATTTCATATACAGAGTTCTTGCCCTTGG
GAGTTTTACAACTGCTTAACACTTTGTCTATGCTAGAATACAAAAAAAAAAAAAAAAAA
AAAANGTGCCTCGGCCGCGACCACGCTAAGGG
Sequence=4974;DNA;Homo sapiens
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CACTCTATGTCTTTTACTTGGAAGAATTTANCCCCCTTGCATTTAATATTATTATTGGGT
ATGGTAAGAACTTACTATTGCCATTTNGGTCCTTGNTTTCTAGNGGGTTTNGNAAGGCTT
CCTTTCTTCCTGGCTTCC
Sequence=4975;DNA;Homo sapiens
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TABLE 2

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Sequence=5014;DNA;Homo sapiens
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TGTGTCCGGCGATGGGCACGGGCATTTCTTCGTTTATAGCTGTCTGTTTGCATTCTGATT
GGGAACACTGGGATCATTTTCATCATGCCGACAGTGGTGGTAATGGATGTATCCCTTTCC
ATGACCCGACCTGTGTCTATTGAGGGGTCCGAGGAATACCAGCGTAAGCACCTAGTAGCC
CATGGTTTAACGATGCTGTTTGAGCACATGGCCACAAATTACAAGCTTGAATTTACAGCA
CTTGTGGTTTTTTTTCATCACTTTGGGAGTTGATGGTCCCCTTCACGAGAGATTATAATAC
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CTTCTCCCCTCCAAAACTATTCTCTTTCATGGGACAGGGGAACAAGTCTTCCTTATGCTG
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TABLE 2
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Sequence=5062;DNA;Homo sapiens

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ACCCATATATCTNATTTGNCAATNAANGACTCCTAANNATANCCCTCTTAGATTAACTAA
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TABLE 2

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Sequence=5073;DNA;Homo sapiens

TABLE 2

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Sequence=5074;DNA;Homo sapiens

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Sequence=5076;DNA;Homo sapiens

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Sequence=5077;DNA;Homo sapiens

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Sequence=5113;DNA;Homo sapiens
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AGGCAAACCTGTTTTCATAGGGCTGTGGACCCCAAGGAATAGATTCAGCAGATGGATCAT
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TCATCCCTAGGAAAGAATCTCAGGGGTATGCTTATTCCCCAATGGGAGGGATGACATATA
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TABLE 2

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TABLE 2

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TABLE 2

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TCATG
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TATGCCAAAACACAAATTTCCAAACCAACCTGTATAACTAAAACAGGGAAAAAATTAAGT
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GGTGGNAGGCNTTTTTNAAAATCNTTCAAAAAATGGTTGAATGGTAAAAGCTTGCCCCAA
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CAATAGGGGAATGGGAGAATGCCATGAAAACATGCCCAT
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GAATAATCAGGGAAAGAAGATTTCACCAAACAGACAAACNAAGTGGCCAGTGACTGACCC
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CACATGACTTTGGCCAAAATTTAGATGGTGGTAGACTGTGTTCTTTTCTGGAGGATCTGG
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GAAAGCAGAATCAA
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GAATATTTGCCTGTTTTGATTTAGTGAGTTTGGNAGGTGGCGGTGGCCTTTCAATGACAT
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TABLE 2

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TAACAATANGTGTNCNAATGTGNNTATTCTGATCCATAATTGTTTTTTAAAGAAAAANAN
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CCCTGATGCTTCGGGGCCCCAAGAAGANGATCGCCAGGAGACNCTGCCAAAGAAGCCCTC
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TABLE 2
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TABLE 2
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Sequence=5211;DNA;Homo sapiens

TABLE 2

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TABLE 2

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AAAAAGTTCCGCAAAAAAGTAGATGAGTTTCTTTTTTTTTAAGCACTAAAGAACAAAATGC
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TAACTCCTCATGAGGCACACAGCTCTTAACTCCTGATGAACCAAGGATTTACTCATAACT
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Sequence=5220;DNA;Homo sapiens

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TCCCGTCCCGCTAGGGTGCTCTTNACCCAATGGCGGTTTGCTTGGTTATTGAAGAATTTN
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Sequence=5221;DNA;Homo sapiens

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Sequence=5222;DNA;Homo sapiens

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TNTTTTTTATTACCCTTNGTAAANTATTAAACTTTCACTTTTTTTAAAAAAAAGATTTCT
TCATCTTAAGAAACATTTAACCCAAAATNNAACCCNTTACCTATTCAANTNAAATTCCTT
CAANTCTTTCTTTAATTTCTTTAAANCATCTTTACTTTCATTCCTCTCCCNTCTTTTAAN
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Sequence=5223;DNA;Homo sapiens

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TABLE 2

803/3461

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Sequence=5224;DNA;Homo sapiens
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TTTNNAAAAAAAAAAAAAAAANNNTNTTNNNNNAAANNANNNAAAAAAAAAAAAAAAAAA
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AG

Sequence=5225;DNA;Homo sapiens
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AGACTATAAGTATTTTGGATTCTTGNTTGGGTGAAATGGTAGAGATGGAAAAAGAAAGAG
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Sequence=5226;DNA;Homo sapiens
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TABLE 2
804/3461

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TABLE 2
805/3461

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Sequence=5236;DNA;Homo sapiens
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Sequence=5242;DNA;Homo sapiens
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TABLE 2

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TABLE 2
807/3461

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GATTACAGAATGCATTCCCTCTTCTGCTGTAGCTTATCATTGCTTTGTTTNGTAGCTCTG
CATATTTTGCCCACCTTGTCTTCCCTGTAAAGTTTAAAACGTTTCCAANGAAAAGCTTCA
GGGGCTGATAGTTTCTTAACAA
Sequence=5256;DNA;Homo sapiens

TABLE 2

808/3461

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGCGGAGGCGGAGGCTTGGGTGCGTTCAAG
ATTCAACTTGCACCCGNAACCCACCGTCATGGCCNAGGAAGGCATTGCTTGCTGNGAGGT
GTAATTGGGACGTTAATACCTTGGCTTNACAAAGAAGGGTTTNTGAAAANAACTTGCCCC
TTCAATCCCNACNGAATGGNCCCCTAAGGCCAACGGTTNGGANATTTTCCGTCCGGAAAG
GCCTTGCNCAANAANGCCCTTTTAANAACCAAAGGCCGGCCCCAAAAGGNCC

Sequence=5257;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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TTTTTTTTTTTTTTTTTTTTTTTTTAATANNAAAAAAAAAANNNNTTTTTTTTTNNNNNNNG
NAACAAAAAAANNAAAAAAAAAAAAAAAANAGNNNNTNNTTAAAAAAAAAAAAANAAANNN
NNTTNTNTTTTTTNANAAAANNTNNANNAAANNNNNNNNNNNNNNTTNNAAAAAAAAAAA
NANNNNNTNNNNNNNNNNNNNNGGTNANNATTTTTTTATTNAATAAAAAAAAANATNNTT
NNNAACNANCNNNNNANAATTNTNT

Sequence=5258;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAACTTTATCTCTTATTTGACTTCATTATTTG
GCTTTCAAATTAACAACATGAAAACTATACAGAAATTAGTCTGTGCCCTATAAGACAGAG
ATTTAGATAATTTGTTCAAAACATGAGATGATATTCAGATATTCTCTCAAAGGCAGGACT
CCAACACCGCAGGTGGGAAACCAACAAAAGGGAAAGAAAACCAGAAAGGGAGGG

Sequence=5259;DNA;Homo sapiens

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTGAAACCGA
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GCCTCCCCGGTTCAGGCCATTCTCCTGCCTCAACCTCCCAAGTAGCTGGGACTACAGGCG
CCCGCCACCACACCTGGCTAATTTTTTGTGTTTTTAATAAAAACAAGGTTTTACCCGTGT
TAACCAAAAATAATCTCNATCTCCTNACCTTTGTAAATCTTCCCACCTTCANCCTNCCAA
AANGCTTAAATTCCAAGCTTTAAACCACCCNNACCCACCCCAAAACACCTAAAAATTTCT
TATCACCTTTTCATTAAAAAATTAAAGCCCCACCCCCAAAATNNATTTTTTTTTTGGNCA
NNAAAAACTTTTNCCCNAAAAGGATCAAAAATAAAAATTCAAACCTTTTNTTNTTACAAA
TTTACCAAGGTTTTNNCCCAAANTTAAAAACNTTTCCTTTTTTTTAAAAAANCNNCCCTT
TTAAAAAAAATTTTAANCCCCAACCCCCCAAAATTTTAAAAAAAATTTTTCCATTNCCCC
TTTTNCCCCNAAAAATTTTTAAAAAAATCNNTTTTAAACCNNCANTTATTTTTTAAAAAA
AACCCTTTTTCCCAAATTTTTNCCCCAATTTTNAATTGNTTTTTTCAANTAAAAAATTTT
TCCCCC

Sequence=5260;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCACACTGATGTGCCTGCATGTTGCATTATGAAT
ATTTTTATTTGATAAAGAACAAATGGTTAAGAAACCCAGTGGTAGGGCTCTCATGTTATA
TAAAGCTAAAAACAAAGAAATAAGAAACAATGAAGAATGAAAAAAGAGACAAGCAGGGGT
TGTCACATTTTCTCAGTGTAGACAGCGTCTCCTTCTGCCCCTGCCCGGGCGGCCGCTCGA
AGGG

Sequence=5261;DNA;Homo sapiens

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TTGCACTTAGAATTTCTCTAGCAGTAAATAAGATAAACCACAGAATTTCAGTTCTTATTT
CTCAAAATGATTTCTCTGAAGCTTGTAGAATAACTATTATATTCAGAGGGTTATCTGCCT
TCAGCTTACTTGTTCTTAATTTTTAATACAGCGGAGATGTTTCTTGCTTTGTTTTCAGAC
TCTCCTTTTTAATCAGGACAACATTTGAAAGATTTTATTGTGCCTCTAAAGGGTATATTT
GGGGGTTGGGTCTTTTTGTTAA

Sequence=5262;DNA;Homo sapiens

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ATAAGATTGTATTAGTGCTCACTAAACATGCATTTCATTTAAACAAGGCAAAACACTTAA
TTTGGTCTGCATTACCCAATATGTTATATACAGCCGTCTTTTTATTTTATCACAATAGGC
AACAAGATGGGTCTGGTTTTGGAATATGTTACCATTTGTGTTTAATTTCCAAAGACACGC
ATATTAGCTCAACTAGTGTAAACCTGTGAAAAAATAGCTGAGCCATCTTTTTCCTCTCCT
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Sequence=5263;DNA;Homo sapiens

TABLE 2

809/3461

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GGTCACCAGGGTGTGCTTGAGGGGACCGTNGACATAAACGGAATTTCANAAGGCCAGGGN
AAAGAACTGCAAGAAGTANNAAAGGGTGGATTGTCCCACAAAGCTTCCCCGACAAATGGG
ATCAACTTGGGGAAGCTATCCATCTTGTGCTTTTCTGGAAACCAGTTTCAAATTGNTAAG
AGAAAAGCCAANTCANGNAATGAGTTTCTTCCATTTCCAGGACTAACCATGGCCAGAGCA
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Sequence=5264;DNA;Homo sapiens

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GAAGAGCTATACTACAAAATTCCTGGACAGAAGTCATGGATTTAATATTGAAACCCCGCT
CTGGAGCTGAAAAGGGCTACTTGGTTAAATGCAGAGAAGAATGGGCAAAGACCAAAGACC
CAACTGCTGCCCTCAGAAAACTACCTGTCAAAAGGTGTGTGGAAGGGCAGCTGCTTCGAG
GACTTTCAAAATATGGAATGAAGAATATAGTCTCTGCATTTGGCATAATACCCAGAAATA
ATCGCTTAATGTATATTCATAGCTACCAAAGCTATGTGTGGAATAACATGGTAAGCAAGA
GGATAGAAGACTATGGACTAAAACCTGTTCCAGGGGACCTCGTTCTCAAAGGGAGCCACA
GCCACCTATATTGAGGGAAGATGATGTTAATAATTACTCTATCCATGATGTGGTAATGCC
CTTT

Sequence=5265;DNA;Homo sapiens

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TTTTTTTTTTTTTTTTTTTTTTAANCNGGAAACTTNTTTNTTAACCAAATTTTTTTGTAGN
GAAANGCCNTTTCCCTTTTAAAAAATGAATGGAAATAAACAATANAGTTTTTAAGGAAAA
ATATAGTNTTNGCTGNGAAAATTTTCCNGGTAANATGTAAAAATTAATTTACTTTTAACT
TCANATGCTNTCNTTTTTTACCC

Sequence=5266;DNA;Homo sapiens

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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTTTTTTTTTTTTTT
NNCCCCCCCCCCNCCCNNNNTTTNAANNACNAAAAAAAAAAAAAAAAAANNCNNNNANA
NTTNTACANNNAAAAAAAANGGGGGGGGGNGGGNGGGGGNCNNCNNAANNCCCCNCCCCC
CCCCNGGGGGGGNGGGGGNANAAAAAAACCCC

Sequence=5267;DNA;Homo sapiens

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CCCGTGTGTAGCCCCAGCCCACAAGGCTCTCCACCATGGTGTGGAAATAGGAACCCACGC
TGCTTTTGCTGGGGTCCAGGAACTCCAGTGAGAAGGTCTTCCCAAAGCCAGGGACACGTA
CATTAAGTTGCTCAAAAGTAGGTAGATAATGTATTTGGGTTATAAAATAAAGATGTAATT
TTACTATTTGGAAAGATCACTTCCCTATTAAGAAAACTATTTATTGCCTATAGTGATAAA
ATTTACATAAGTTATTATTGTCTATTGGAATAGATCAGCAGAATATAGAAAATATGTGGT
CCTAGATATCAAAGAACTTTCACTTTAAATATAGGCACACAAACATATTTTTGAGCTACA
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GGCTAAAATCCCCATTAG

Sequence=5268;DNA;Homo sapiens

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GGAATCTTGCTCTGTCACCCAGGCTGGAGTGCAATGGTGCGGCTCAGCTGACTGTAACCT
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CCCACCACCACACCTGGCTAATTTTTTTGTATTTTTAGTAAANACGGGGTTTNACTATGT
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ATTTGCTTTACAAGTCCTGCTTAAGGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCC
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AANTTATTTTTTGGGNNAACAAAAATAAAAANTTAGGGCCTTAGGAANAANCTTGGGTTA
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TABLE 2
810/3461

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Sequence=5269;DNA;Homo sapiens
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CNNAAAAAAAAAAAAGGGGNTTTTTTCCCCCNNNNNNNNGNGAAAAAAAAAANNNNGNGN
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CTNNAANGNNGGGNGAAATTCCCCCCCNNGGGGGGGGGGGATTNTNNANANACCNCCCCC
CCCCCCCCNC
Sequence=5270;DNA;Homo sapiens
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Sequence=5271;DNA;Homo sapiens
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GAACTTTCTTAAGAGCCATGAAACTGGGAAAAAAAGCCTTCTTNTACCATAGCAACTGCA
AAAANCCAGGCATTCGAAGGACTTAATGAAGATCCGGGAAAANAGCTTACCCCAGACCCC
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Sequence=5272;DNA;Homo sapiens
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ACCCCATCGGCACTAAAAATACAAAAATTAACAGGATGTGGTGGCGGCACCTGTAATCCC
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AAAAAAATAGAANATAGTCTTCTAAAATAGGGTCGTCTATTGTCTGTATTTACCAAATGT
TTGGG
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TCCCAGAGCACTTCACTCTGTTTCTAACTCCACTGACTTTTCTGACTTGTTTCTTGAGGG
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GAGGCACGGGCTCCTTCTGCTGGATCAAACTTCGCGGCNACCTCCGGGACTCTGACGGTG
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TABLE 2

811/3461

Sequence=5275;DNA;Homo sapiens
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TTNTTTTTTAATCAAACTTTTTAAACCTTTCATANCAAANCCNAAAGAAAAATCACCAAA
ACTNTCCAATTNAANNCCCATAAATTNATCTTTAAANAAAANAANTAATTCTTCCTTCCC
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Sequence=5276;DNA;Homo sapiens
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CCNTCTCCTCCTATTCTAAACTGTGCCTCCACAAAGGGCAAGGGCTCTTGGAGAAAGATC
CTGGCCANGACAGGANATGCCAAATCTAATTATCTNACTGAGGGCCTTTTGAGAAAAACC
CTTCTNGGCCAGCTCAATGGCTCATGCCTATATAATCCAGTACCTGCCCG
Sequence=5277;DNA;Homo sapiens
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GACATGATTGATAAAGAACAGAAAAGCATTGTCATCATGGTTCATATTTATGAGGATGGC
ATTCCAGGGACCGAAGCCATGAATGGTTGCATGATCTGCCTTGCCGCAGAGTACAAAAAT
AACTTATATACCTTTGTGTGAGAAAGATATTTCATAATTTTTTAATGGTAAAAATAAATG
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Sequence=5278;DNA;Homo sapiens
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AATTTTCTATTAACAAATAGGAAGTTCTTATATATAAAACCTTCACATAACAATNAAAAA
AAAGCCGGNTNCATTAANAAAAATAAATATCTAACCNTNTAAAGATTCTTCCCNANAAAA
GCCATAAACAAAATTTTGTAAAAAAAATNTATTCACCCAATTCATTTTCCCCCTTNAAAT
NTTTCCACTTAAAAGTCNCNAGNNCTTCCTAACAAATATTTAAATCCTTTCATTTTTTTC
CAANTTTTTTACCAAACCCCTTTCCTTAAACAACCCCCCCTTCCCNTTTTAAATTNCCCC
AATACTTTTTTTTTTAAANCCAAANTTTTTTNCAAATTNCTTTTCCTTTTTACCTTTTCNT
TATCCTCCAATNNCCCTTNAAAAAAACCAN
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CCAGCCTGGGCAACAAGAGCAAAACTCCATCTCAAAAAAAAAAAAAAAAAAAGTATTACT
AGACATCAAATAAGAAAACATCAACAAAATTAAGTTACACAAATGTATTCCAGAAACTAG
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CATGACTT
Sequence=5280;DNA;Homo sapiens
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TABLE 2
812/3461

ACCCGAAAAAGGAAAATTCTTTTAATTTTCTATAAATTTAGATGTCTGATCCTCATCTTT
TTAAAAACCAAAATGATAAAACATATTTCTTAAACTGTTGGGTTCTGAAAAAGTCACCCA
ATTGGAATCAGCTNGTTCACATTTAGAAAATGCAACTGCTAAAAGCTGTGGGATACTGCA
ATTTAAGCCCTGCAGCTCACAAGGCAAAGTGTGTAATTCTAANAAGCATCAA

Sequence=5281;DNA;Homo sapiens
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CCTTCCTGAGTCCATGTGTTCTCATTGTTCAATTCCCACCTATGAGTGAGAACATGTGGT
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TCCCTACAAAGGACATGAACTCATCATTTTTTATGGCTGCATAGTATTCCATGGTGTATA
TGTGCCACATTTTCTTAATCCAATCTATCATTGTTGGACATTTGGGTTGGTTCCAAGTCT
TTGCTATTGTGAATAGTGCCGCAATAAACATACCGTGTGCATGTGTCTTTATAGCAGCAT
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CGGGCCGC

Sequence=5282;DNA;Homo sapiens
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GTCTTCACTGTCCCAATTCTGAGTGTGGGTTGTGTGAGTGGCCCTGNGATGGAATGGCGT
CCTGTNCAGGGCTGGGTTCCCTCTTTGTGCCCTGAGCTACTGAAACAGGCTTNAGCTNCN
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TAAATGTATGTAATANGCTCACCATTTANTTTCAATGTTTAAATATTA

Sequence=5284;DNA;Homo sapiens
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ATCAGTGAAATGAGTCCCAAAGCCCTAGTTGATACCTCATGTTCTTCCAACAGAGATTCT
GTTGCAAGTTCATCCCACATAGCCCAAGGGGCCTCTCCCCGACCCTTGCTAGTTCCGGAT
GAAGGTCCCACTGCCCTAGAGCCCCCTACGTCGATACCTTCAGCTTCACCGTAAGGGCTC
CAGCGGGGCCCCACAGACGAGCAGGATGCCTGTCCCCATGAGTGCCAAGGAACAGACCCG
GGAACCCTGG

Sequence=5285;DNA;Homo sapiens
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GTATAAAAATCTTCCCACAGCTTCCCGAAAGCTTCAGTTCCTGGAGTTACAGAAGGACTT
AGTAGATGATTTTAGGATACGATTAACACAAGTGATGAAAGAAGAGACTAGAGCTTCCCT
TGGCTTTCGATACTGTGCAATTCTTAATGCTGTGAACTACATCTCAACAGTACATTCTGC
TATTTTGGGGAATATTACTCTATAAATGATAGGTCAAATCGGTTGACAGTTTTTTTCAAG
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Sequence=5286;DNA;Homo sapiens
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ATANATGTGGGGTTTATTCCTTATTATAAAAGAAAAAAAATAATTNTTCAGCAGTCTTAA
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NACCTNGAAANTTCTACAAAATTTTGGATTTAAANATCTTAAACTTTCCTATANNTTTTT

TABLE 2

813/3461

GNTTTTTTTAAAAAA
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CNGNNTACAGAAACTGTGCGGGCATCACGCTNCTNAGGACTNAGATTATCAACTGNCTCC
CTGACTGGGCTCTTCTNTCTGAAATGACGACTNTTACTGTGTCCATACCTATNAC
Sequence=5288;DNA;Homo sapiens
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GCCTT
Sequence=5289;DNA;Homo sapiens
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Sequence=5290;DNA;Homo sapiens
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TABLE 2
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TABLE 2

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TABLE 2

816/3461

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TABLE 2

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Sequence=5313;DNA;Homo sapiens

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TABLE 2
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TABLE 2

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AGCC
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TABLE 2
820/3461

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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GTGGCCCCCCAGCTTCTACCCTCTCATCTTTGGAAAGTTGTCCCAGAAGCAGCCCAGAAC
AATCCAGGGGGAGGAAGTCACAAAAACTGCAGGTGAAGGGGTCAGAATCCATCATTAAGG
AAAGAAACAGAAGAAAACAGTCACTGNGATGCTAACACAGAGATGCAGCAGATTCTCACA
CCAGTTCCGCAGAACTTTGGTAAAATCAACCGTGGTGCCCNAATTTTCTTGGGGATGACC
TGGGTTCCTGTGGAGGTGTCAAAATCTTTGAGGAAGAGCTTGAGAACCTTTTCTTGATGA
AAAAGGAAGGANGGAACNAGGGACCCACCAAAAAAAATGATGCCGGAAAAATTTTTCCTT
GGAACCCGGAGGAGGAAAATGTNGGAAAACCACNCCCANANCCGTTTTAAAAGCCCTGGA
TGAAAAAAATGGCCAATATTAAAAANTTTNTAGACCAAANCCAAACCCAAAAAGTTTTAC
CAGTCNNAATTTCCAGGGGCCTGANNGGAAAAAATTTGCAAAACCTGANAACCAAAAAAA
AAAA
Sequence=5363;DNA;Homo sapiens
CCCTTTCGAGCGGNCGCCCGGGCAGGTACCAGGTCTTCTATGTGGGTGTCAGGATATGCT
CCCTCACGGCTTCCGAAGGCCCCCAGCAAAAGATCTAACATTCTTGCTCAAAGTTGCNAG
AGAAAGTATCACATGGAGTAGCTGGGTTGGGGCGGCGGCCTCTTCTNTTCAGCTNCCTTA
NCTTGGCTCCNTAAGTGGATCACTTACCAAATGCTTTAGATGATTGCCTCTCAATAATTG
AAAGGTGGNGGTAGTTGTATTGCTGCACTTGTCGGTGTTAAAGAGAAATTACTCTCACAA
GAGCAGAGGCCTGAAGATNCTTTCTTCTGAAGGGGATGATGAGCCTGGACTCTCTGGGAC
TCCTAGATT

TABLE 2
825/3461

Sequence=5364;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACACTGAATACTACAAAATATTGCTTAAATAAATT
ATTTGAAAAGCTAAATAAATGAAGTTATGTATAATGCTTATGAATTGGAATACTCAGTAA
GTATTGGGATGTCGAAGTTACCTCTCTTTNTTTTTTTTTTTTTTTTTTNTTTTTGAGAT
GGAGTCTCGCTNTGTCACCCAGGCTGAAGTGCANTGGCGCGATCTCGGNTCACTGNAAGC
TCCGCCTNCTGGGTTCACGCCATTCTCCTGCCTNANCCTCCCAAGTAGCTGGGACTACAG
GCACCCGCCACCACGCCAGNTAATTTTTTTGT
Sequence=5365;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGACCGTTGACTCAGGTAAAGAGGGAGACAGCAAGAAC
AGAGTAGAAAGGCAGCATAAAACTGGTGGAACCAAACACAGACTAAGTAAAAAAAAAAAN
GGTAANNTTCCCNACAACNCCTTNTCCCAGGAAAAAAAATCCANTAAAAANCAAAGGCNT
TTACCANGGNTNCCAAAANANTTCCGGGGAAAANGGATTTTTTTNTNANTANTCANCAGN
GGGACAAGNGGAAATCCNCAANCAAAAAAATGAANCTGGNCCCCTNCTTCNCNTTTTTTT
TAAAANT
Sequence=5366;DNA;Homo sapiens
GAGCGGCCGCCCGGGCAGGTACATGTGATGCAGAAAAGTCTTACGAAGTATTACTGAGCT
TTGTGATAAGTGAACTGTTTAAAGGAAAGTTATACCATGAAGAAGGAACTCAGGAATGTG
CAATGGTTAACCCTATTGCTTGGTCTCCTGAATCCATGGAAAAATGCTTACAGGACTTCT
GCTTACCTTTTCTCAGAATCACCAGCCTTCTTCAGCACCACCTTTTTGGGGAAGATTTAC
CTAGCTGCCAGGAAGAAGAAGAATTTTCAGTTCTTGCCAGCTGCCTGGGACTTCTGCCAA
CGTTTTACCAAACAGAACATCCATTCATCAGTGCCTCCTGTCTGGATTGGCCAGTTCCAG
CATTTGATATTATAACTCAGTGGTGTTTTGAGATAAAATC
Sequence=5367;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACACGACATTTCTGCATATGGTCTGCTAATGGCAC
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TAGGAACTTAATTCAAACCAGAGCAACCAGAAAGGATACTGGAGGCAAAAGCCAAAATAC
AATTTAAAATCTTAAAAAAATAAGGAACGGTTTAAAGGTAATTAATGAACTTTTCCTCAC
CTAGTGTAAACATTTCATAAGAAGTAATATTTTGTGGTCACAAAAAAAGCACAGATACCT
CTTTTAGAATATTCATGATGCTCTTGTGTATGAACTTAAGTTTTCATGAAATGCTTTCAC
CTCAAAACCCCGTATTCAAGAATCAAGAAGGCCAAGCACGATGGCTCATGTCTATAGTCC
CATCACGTTGGGAGGCCCAGGCGGGTGGATCACTTGAAAGTCAGGAGTTTGAGACCAGCC
TGTCCAACATAANCAAACCCTGTCTCTACTAANAATACAAAAATTAGCTGGGCCTTGTGG
CCGGGTGCCAGNAATCCTAGCTCTCAAGCGGNCAAGGCAGGACAATCCTTTGAACCCAGG
AACNGAGGCTGCGTGAGCTGANACATGCCCTGCCTCCACCTTGGGGACAGAGCAGGAATC
CNTTCAAAAAAAGAA
Sequence=5368;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACATTATTAATCAACAGTGTCCCACCAACTCAGAA
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AGAATGTGCTTGTAATAGGCTGCTGGTTTAATTTTAGAATCAAAAGTTTTATATTGGGCT
ACTTTCAAATATAGAAATGCTATGAGTGACATATGAACTATTAATTTTGTTTCCCATTAC
CTACAGGAAGAATTTATTCAAATAAAATTTTACAAGACAAAATGCAAATCTATATACCTA
TATAGAGATGTATATATGT
Sequence=5369;DNA;Homo sapiens
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ACCTCAGAATTTGAAAGAATGGATAAAAGAATTTGGAAACATGTTTTTCTTTGTTGTTGT
TTTTTTTGTTTTTTTTAGGTAACATTTTAAAAATTGTTTATTCCTACCAAGACCCAGTTAA
TAAAAAATTTTACCTTATGGGTAAAGGATACACAGGAGCTTTCCATATCTGCAACTTTTC
CGTAAATCTAAAATTATTTAAAAAGAAATTATCTAAAAGAATTTAGTCTGTAATGAATTT
TCCACATTATAGACCACTCTCCCAAGTGTTTGGGAGAGGGCCCAATGAAAAGATGGGACA
TTTTGGCGTCATCAATAATTGCTTGGCCTANACCTGTGCATTCTTGGAGATCTGGGATGG
GCATATAACTCCTAACTGAAAATCAGTGGTTATGGGGAGCAATTCTTAATAATAAGAACA
TGTCCTTGGTGTAGGNTTAAGCCCCAAAAAAAAAGGTGGNGGGNNCNCTGAANCCANATA
TTCCNCAAGGGTTNTTTTNNNCCCAAGGGTNTTTAGGTTTAAAAA
Sequence=5370;DNA;Homo sapiens

TABLE 2

826/3461

CGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACTTATCCCTACCTTCATGTTCCAG
TGGAAGACCTTAGNAAAATCAAAGATCAGTGAGTTCATCTGTAATATTTTTTTCACTTGC
TTTCTTATTGACAGCNACCAGGAATTTTTTTATCCTNCCGAGCCAANTTNTTCAAAAATG
TNNAATACTTCNTCCTGCTTAACANGTCCTTGGAACTCATTCTGATCCATGNTTCACCAG
CAGGNTGGACAGNATATAATTTCGCATCATTNTTGNCCCTTGNAAATCAAGATGCTCTGC
ANATTATTTCCTTATAACGGNCGGACTTTTGGCTGNTTTCCTAATG

Sequence=5371;DNA;Homo sapiens
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GATAAATAACACTAAACTATGCTATTTGATTTTTCTTCTTGAAAGAGTAAGGTTTACCTG
TTACATTTTCAAGTTAATTCATGTAAAAAATGATAGTGATTTTGATGTAATTTATCTCTT
GTTTGAATCTGTCATTCAAAGGCCAATAATTTAAGTTGCTATCAGCTGATATTAGTAGCT
TTGCAACCCTGATAGAGTAAATAAATTTTATGGGTGGGTGCCAAATACTGCTGTGAATCT
ATTTGTATAGTATCCATGAATGAATTTATG

Sequence=5372;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCTTGCAATGAAACCAAATAGTATCATAGAC
ACAACCTCTGTAGCACATTTTAGGTGGAAAACACTGTCCAGAATTTTAACTACCAGATCT
GTTTTAGGCCATACAGTTTGCTCTTAGTTTTATCAAGAGAATTTTTAAGGCTTGCTGCGA
CACTGCTATGTGTCCTTTTCAAAATCTGTTCCTTTCATTACTTACTTAGAATAAGATCTC
TCTAAAATTTTAAATTAATAGCACAGAGAGAGAGGCTGGGAAAGCAGCCTTTTTATGTAA
ATGAAACCTCTTAGGTAGTAAAAAAAACC

Sequence=5373;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTGGGAGGCCAAGGCGGCCGGCCTGACCTC
AATTTCTTAGTGCTGAGACAACAGGGGAGCTAACTCCCTATCCCCCATCACACACANAAA
ANGGAAGCCTCAACTACGAAGTTGTTACTTTATTAGATAGTAGCTCTGCCATCACAGCTT
CCCATCTACCGCCTAACTCTGCAACAGAAACATTTCCCAGGACTGACTGGAAAGAGGAAT
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CCAGAAATAAGATAATTAACTTTGGAACTAAGGGGATATAAATGA

Sequence=5374;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTGATA
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TTTTAAAAACCAAAATGATAAAACATATTTCTTAAACTGTTGGGTTCTGAAAAAGTCACC
CAATGGAATCAGCTAGTTCACATTTGAAAATGCAACTGCTAAAAGCTGTGGGATATTGCA
ATTTAAGTCCTGCAGCTCACAAGGCAAAGTGTGTAATTCTAAGAAGCATCAAAAGATA

Sequence=5375;DNA;Homo sapiens
ATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCCCAATGGTGGATTTATTACTATT
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AGGTTTTTGAATTTTTTTTTTTAAATAAACACCTTCTTAAGTGCATGANAATGGTTTGAT
GGTTTGCTGCATTAAAGGTATTTTGGGCAAACAAAATTGGAGGGCAAGTGACTGCAGTTT
TGAGAATCAGTTTTGCCTTTGATGATTTTTGTTTNCACTGTGGAAATAAATGTTTGTAAA
TAAAGTGTAATAAAAATCCCTTTGCATTCTTTCTGGACCTTAAATGGTAGAAGAAAAGGC
TCGTGAACCCATTTGTTTCTTTTGGCTGGGTATAGTTGCTAATTCTA

Sequence=5376;DNA;Homo sapiens
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACA
CGCCCTCCATCAGCAAACCGCTAGCAAAGGGAGAAGTCTCGGGTTTGACAAAGGACTTCA
GAAATGGCNTNGGGAACCAGCTGAGTTCAGGGATCCCACACNTNTGNTGCNTCTCAGTGT
GACTNANCANNTTCCAAATGGNGNTTGCCNATCCCANGGTTACNTNANANANTGCCNCTN
AGAGATGTCCCGTGGCCCTTGGNTCTGCTGGGTCTTTTTT

Sequence=5377;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGTGCAGGT
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AAGGGAAGGCAAGACAGGGGTGTCAATGAGCAGGTTACCAGGGTTGGACAATGGGAGCTT
GAGCCTGCTGGGGACTTGTGGGAGATTGCATAGAGCACATCTCAGGGCTGTTCCACCTGA
GAGGGGAGGAAGCTGAGAATGTATCCACCAGCTCCATTTGTCATTGGTAGAGAGCTACTT
CTAAGGGCA

Sequence=5378;DNA;Homo sapiens

TABLE 2

827/3461

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCATAGCAACAAGAATGTGCCTCAGC
ACGATTACTCAAAAAGCAGAGATGGATATTGCTCTAGGCTTGCTTGTGTTCTCCTAAAAT
TCATATGTTGAATTGAATTTCATCACCCAAAGTGACGGCACTTGCAGATGGGCCTTTGGG
AGCTAATTATGTTGAGATGAGGTTGTGAGGGTAGTGCCCTCATGATGAGGCTACAACCCT
TATACAAAGAGTCACCAGAGAGCTTGCTTTCTCCCAATCTCCACCATGTGTGGACACAGG
GAGAAGGCAGCCATCTGCAAACCAGAAAA

Sequence=5379;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCATCCTGTTTGTTCTGGGCGAGGGAAGAC
AATCTTAGAGTTGGAAGAGATGTAATCCGGCTCAGCCTCCCAGGATAAAGGAACTTCCTT
TTGAAACACCCTGGATGGCTACTCTCTGCTTGAGTGTTTTGAGCGGAGGGCACTCTGTGT
CTGACAGGGTGATTATGAGCCAGGATGTGCCTACCTCTAATGCTCACATTTGCCCCAGAG
TCAGGGTGCTCCCTGGCATGGTTGCTCCTCTTACTCTTAGACCCACCAGCTGGTTTTCTC
CAGATAGGAACAGGGCTAGGAGAAATCTT

Sequence=5380;DNA;Homo sapiens

CACCAAAGAATTTGGTTCTTCTTGAGGTCCCCACAAACCAGCCGTTATCACACTTTTCCA
TGACATCNATGACATCACTTTCTCTGAGCTCCAGCTCATCTTCATTCCTGGGAGTATAGT
TATACANAGCCTGAAACGGTTCCCCTCCGTGAAAGTGTGGATTCCTACTTCCTGCTCTAA
GCTTTGACACGTCAAAATGTGGGATCAGAAAGAAAAAAATCATGATATTTAAAAATGGTC
AAATATTTGAGGCACGAAANAAAAAAAANAAAAAAANNNNTTTTTTTTTTTNAAAAANCT
NCANTTCCCCNCCCNTTTTTTTTTTTTTTTTAAAAANCAAANAATTTTTNCANNTTTTCNN
NCCCCNGGGGNNGGNGNCCNCCNTTAACTGNNNNCTTTNNGGNTTNCCCNTTAA

Sequence=5381;DNA;Homo sapiens

CCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGGTGTTTGGAGCTGGAGACGGCCTGGGTG
CTGGCGAAGCGGAGGCCGGAGTTAATACACGAGGAACTCATGCAAAGGAGGGGACTTTCG
GAAATCCAAACTTAGAGTGCCTTGTATTTAGAATCCGGAAGGAAAAGGAAATGAAATGTG
AAGAAACTCATGCACCAAACTCGAACTGGTAAGAAGACTGTTAGAATGCCCTCGGTAACA
CAGAGGCTGAGAGATCCTGACATAAATCCTTGTTTGTCGATCCTGTTCTACCTTTTAAAT
GATGC

Sequence=5382;DNA;Homo sapiens

ACCAAATTAAAGGTTTGTTCCCAACTGGAAGCAGAGGTTTGGGAATGCTGGAAGTTAGGT
CTGTCATCCGAGATCCTCCACCTACTGCCATCACTACTGCTTGAAATTCCATTTTTACAA
ACCGGGTCAGCCAGCTTGTGTGCGGCCTGGCAGGGCAGAAGTCACAGCTATAACTCAGCT
CCCCGCACGCCGCAACCGCTCCCAGCGATCTCCCCCGCGTACC

Sequence=5383;DNA;Homo sapiens

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TTCTGCTGGCAACTTGGATCTTAGAATTCCCAGTCTCCAGAACTGTAAGAATTAAATTTC
TGTTGCTTATATGTTATTTCATTATAGCAGCCTGAATGGACTAAGATATTTGCCAGTAAC
ATTTGACTTCAGGTCCTCTGCTCTTGCTTTTCCTCTCTCAGGAACACTTTCTACCCAGCC
TTTCACATGGCTATCTTCTCACCCTCAGCTCTTTGGCTGAAATGTCAGAGGGTCTTCCC

Sequence=5384;DNA;Homo sapiens

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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTNCCCNNCCNNNNCCTAANTTNANNNAAAAAAAAAAAAANNNNNCNNNTANNAANAA
AANNACCCNNGGGGGGGGGGNCCCCCCCCCCCCTTTNAAAAANAAAANNCNNNNNATATAA
NATACCCNNCNCNCCCCNNGGGGNNGANCANANCTNATACTTAATTAANGTTTTANACAC
ACCNGNTNCCCAGGGNGGGCNCANNNAAAAAGAAGNGGGGGAGGNGTTATNNCCCNNNGG
GGGGGAAAAAAAAACANTNTTTTTAAAAAAAAAAAANGGGCCCGCNCNANACTGTAAACA
ANAANCCAGNGGGCCCCCNNNCCCCGGNGNNNGGGNTNACNNCCCCGGNGGGGGGGGNNA
TANAAAAGGNNAGCCCCCCGCANAAAAANNCTNTGGGGGTNAAAAAAANTTAAAAATTT

Sequence=5385;DNA;Homo sapiens

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CCTGTCATCAGAGCTTTGTATGAAATTAAGTCAAAGTGTGGAGCTCCTTTTACTCATTTT
TTTTTTCTCCTTAAAAAANAAAAGAANCAAATGTTCCANGTAAAAACAAACGTNTCCCAA
AGCATGTGTGCNTTGAAAAGTAAAGAAACATTATAACANCTTCATAAAAACTGACTTAAA

TABLE 2

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AGTTTAAAAGGAAAAAAACATGTTTCTAAGTCCCTCTGA
Sequence=5386;DNA;Homo sapiens
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ATTAGAGTCAGGGTCTCACTATGTTGCCCAGGCTGGTCCTGAACAATTGGACTCAAGTGA
TCTGCCCGCCTGGGCCTCCCAAAGTGCTGGGATTACAGTTGNAAGCCACCATGCCANGCC
ACATTTCTNCATTCTTAATAAAGTCNGTGGAATCTACTTCGAATGCAATTTTAATTTANA
TTTCAATCTATGAAGATATTGGGNTGGTGCAAAACTAACTGCGGNTTTGGACTGTGAATT
TTAAATCATTNTAACTAGGGCTCAACGCATTTTTATTAANTCAAAAATANGGAACCATTA
CNNTCAACACATNTGGTTTNCAATAAGAAATTAAGNTTGGTTTATTTCCTTGNNNCGGGA
AAANANCTTGTGCTTT
Sequence=5387;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNNTTTN
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNTT
TTTTTTTTNTTTTNNNANTTTTTTTTTTTNTNTTNNNGNNNANGGNACNNNCCNNTTNT
TTTAAAAAAAAAAAAANNNNNGGNGGNNNAANGGNANAAACAAANCTTTANTNANTANCN
CAAAAAAANNTCANAANTNNNTATAAAAAAAAANAAAANAAGNGGTTNTNANGAAACCCAN
CCANCAATTCTTNTTNTTTTTNNTGNGCANAANAANAAANAAAAANACCNCCCNAGAANA
AAAAAAAAAAAGNGGGGGGGGNGGNGGGNNNNNACCCTATCTTTTTTTTTGGAANAGANAA
AAAAA
Sequence=5388;DNA;Homo sapiens
ACTTTTTTTTTTTTTTTTTTTTTTTTTNNAAAAAAAAAAAAAAAAANTTTTTTTTNAAAAAN
GGGGGGGGGGGNCNNTTTTTTTTTNNAAAAANGGGNCCCTNTTTTTAAANCCCNTTTTTT
TTTTTTNNAAAAANNAAANGGGNAAAGGGGGNTTTTTNCCNNCCCCNNTTTTNNTTTANG
GGGNNCCTTTNNAANNNTTTTTTTNAAAAANGGGGCCCNAANTTCCCCCNAANNNTTTTA
NGGGGCCCCCCCCCCGG
Sequence=5389;DNA;Homo sapiens
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TTTCAAAATTAGAGAAAGCAAATGGGATGGATAGATTTTTTTTTCTTTTCAAGGGGGGCA
GGAAGGTAATGGTTTGAGTAGCCTTTGTTTAAAAAAAAACTAAATATATTTAAAAGGCCA
CATTTATATTTTTTTCACAAGAACCACATAATAAATTCCACTTCTTGACCTGAATTTGGA
AATCCGAAATTACTAATCCAGGCCAGGTGTGGTGGCTCATGCCTGTAATCCCAGCACTTT
GAGAGGCCGAGGTGGGCAAATNACTTTGAGGCCTTGGAGTTCAAGACCACCTTGGCGAAC
ACNGTGAAACCCCNTNTTTCAAAAAAATCAAAAATTAACCAGGCNTNGGTGGCACCTTGC
CNTGTAGTNCCCAGCTTCTTGGGAAGGCTANGTCAAGANAATTGGNTTGAACTTTGGGAA
AATNGAGGTTGCNAAGANCCCAAAAATTGCACCCCTTGNANTTCCAACCCTGGGGNGGNN
GNAAATGGNGACTTTTCCAAAAAAAAA
Sequence=5390;DNA;Homo sapiens
ACGCGGGAAAGAAGAAAATACANAGAGTGAGTGTGTGGAAGAGGGAGAGAAACAGGANAG
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CNCGAGANAGAGNGGGGGGGNGNGAGAGNGAATNNCACTAGANTGTNGCNCTGNAAANAG
NNTCTCCCCCTCTCTCACNCCCGGGGGGGNGNGTNTGCNCNNNGTNNNATANNCNNGNGG
GGNGNAGNGACNCTCCCCACANAANGTGTGTGTGTGTGNNNCCCCCCCCCTTNTCTNNCT
TAAANAAANGNNCCACACNTNGGNNGNATCTCCCNCTCTCTCTCTGTATATANTAGAGCN
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CAGCCCCCCTATATANNNTGGNGGTGGANATCCCCCCNNCTNCNNTTGTGGTGNNNACCN
TNAGAAGAGNTTATATTCTCCNNGGGGGCNNTGTTTTTTNNTTTTTTNCCCCCANANGGG
NAANTANCCGAAGTGGNGGAGAAAAGTTGTTTTGCTTTTTTTTTTGTGGGGAANAANAGGG
NGGTTCNCNTTTGNAANCCCCCCTTTTTGNGNGGGGGGGGAGATTTTNACANNTNTTTTT
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TTTAANTTTNCNTNGGGGCNCCCCCCCCCTTTGGGGGGGTTNTTNTCCCCCCCCTNTGGG
GGGNCTTTTTTTTTNNNGGGACCCCCCCCCCCC
Sequence=5391;DNA;Homo sapiens
CCCTTTCGGCCGCCNTTTNAGGTNCTGGCATCAGTCAATGTNNTGGAGTNNTTNGGTCCC
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CAAAAGCAACTGCACAAGACAACCCCAAATCTGCCACAGAGCAGTCAGGAACTGGTATCC

TABLE 2

829/3461

GATCAGGGAGTGAGACAGAGNCCGAGGCCTCANAAATTACTATTCCTCCCAGCACCCCGG
CAGNTCCACANGCTNCCGTCCAGGGGGAGGACTACCGCAAAGGTGTCANCTTCTACCTCA
NGGACAAAGTGGNCNNGGGGAATGNGCTATGGAACANCTTTAACCCGAATGCCCATAGCA
AGGGAAGAATCATTNAGGACGGNGAGCAGCATGAANANCTCAATTGAAGTAGCCAAACNA
TCNACATTCATGAAAACTGGAAACCCCACCAGTGGAAATTGGNAAAACCCANTGGGGGNC
CTGAGAAGGAAGGTNCNAAAGGGGTAAAAGGANCCATTTTTTTTATCCNCNNACTTTCNT
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GAAAAAAAAA

Sequence=5392;DNA;Homo sapiens

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AGACCAGCCTGGGCAACATAGTGAGACCCTGTCTNCACAAACAAAAAATACAAATATTAN
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GATCACTTGAGCCCAGGACATGGAGGTTGCTTGTGAGCCCAGATCATGCTACTGGACTCC
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TTATATGGAGAATGTCTATTTGGGGATCTTGGTAAGAAAACTGGACACCTAAAGAANCTA
CCAAGAACTCAGTGGATCTATATAGGAACTTTTNTTGATCTACAGCGGGAGGNTTGCATA
ANAAAAAAAAGCGTTTGCCTACCCTTTTTGGAGACATACATGCAAATTGGTAGAANTAAT
GGAATTTCANTNACTTAATNTTTGANNNACNTTNGNGCATTTAGTGAGAACAANGGGGGG
GAATGCCTNNTTATAATTGAGAAAANGGGGGANGTTTNTAATATTAANTANGGNATTTNA
TTAATTTNTTGCCNNATCANCCTAATTAACTNTACTAATTNTTTAAANTTTGNTTTACTT
TATTAAAAAATNCTNTTTCCCATTTTTTTTAAAA

Sequence=5393;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCAAATTAATCAATAGTTCATCTTATTTACA
ATCTCTCAAGCAGCTCATTTTATGTTAGTTGCACAATCTGGAGGTCTGGAGTTCTTCACA
TGAAATTTAATAAATTATCATGCAAGCTCATTTTTATTCCCATTTTTTTTACCCAGGGAG
AATCAGTCTACCAGGGCAAATAATGAGGTTACCACCTTAGTCCCTCTTCCCAACCCCATT
TTTTAGTTACTTTCCTTTCATTAAAATATCCTTATGCACTTACAAATAAAACTAAGTCCC
AAGAGGGCAACA

Sequence=5394;DNA;Homo sapiens

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TTTTTATTTATTTATTTATTTTTTGCCAAGGTTCAGGACAGATCCAGGTGTCTTTCTCCA
AAGATGATTATGATGGTGTTAATATTTAAAGGGGAAAGTGGCCTAGAGGGGAACAAGGGA
GGGTATGATCATATTACTGTATCCACATGTTGCAGGAGAAATGGAGCATGTACCTGCCCG
GGCGGCCGCTCGAAAGGG

Sequence=5395;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCACTTTTTAAAGCTAGCTGTGTCGAGTTAAAGA
AAAAATCAGCAGTTTTTTCTCCCAGAAATGTAATTGCAAACACTATTCATCCCCATCTTA
AGTTTTACAAGGTGATGTAATCAGCTTGTTGTAAGTGATGCTGGCCAAATGGTGCTCAGC
AGGTGAGAACAAAAAAACCCCAGATTTCAGTGAACTAATACACAGCTTGAGCCGTTTCCA
TGTGCTAATGTTGCACACTTACTAAAAAACTTTGGAAATGGAAAATAATGTATTAAGTGC
AACAGTTGATGTGCTTCTTTGGGCAAAGATATAAGTTTTGTTCCACAATTTGTACCTGCC
CGGGCGGCCGAAGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
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Sequence=5396;DNA;Homo sapiens

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CGTCCCAAATAATTGTAGTCTTGTCTACTCCAGCACTTAGGATGAAATTTCCTTTCTTAT
TCCATTTTAATGCAAATATAGGGCCTTTATGCTGCCCTAAGGTGCTAGCAAGGTTACCAT
CTTTAGTCCATATTCTGGCAAACCCATCATAGGAACCAGTTGCTAGAAGTGTACCTGCCC

TABLE 2

830/3461

GGGCGGCCGCTCGAAAGGGCGAATTCCAGCA
Sequence=5397;DNA;Homo sapiens
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TACTTTTTATTTTGAAANATTTGNGAAACTNTTCACATNATGGGGANAGTTTGTATNATT
AANAAAAACCACNTTTTTCATNAAATGNTTGGAGGTNAACAANTTNTNACCCTNTGAAAT
CCCCCATCCCATTAACTTTAAANTTTNTTTTGATTAATAAAAAAAAAAAGGGGNGGGTGA
AAAAAAGGAGGAACTTNCTTAAACCCTTATAACAATCNTCCAAATTTNANNAAAAAACAN
CCCATTCNCCAACTNCACTTTTTTTATTTTACAACTTTNTACATNTCACTNTTAATTTTG
GCCTTCCTGGCTAAAACANCCCTGNCANTCCCTAAGGCCCCTAAAAAAAACCNTGTTTNT
CCAAAAAACAAANGAGGGAAAACCCTTCCAANAAACCCTNACCCCTTTCCAAAAAAACCN
NCAATNCCTTTNTTCCAAAAATTTTAACCNACCCCCTANTTTTAAAAAAAACTCCCTTTA
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Sequence=5398;DNA;Homo sapiens
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Sequence=5399;DNA;Homo sapiens
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AA

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CCAAAGCCCGAGGTCGCACTTCTGTTTCTTGTCTCCAAAGCCCGAGGTTGCAGCTCTGTT
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AAAAAAG

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TABLE 2

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TABLE 2

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GG
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TGTGCTTCTTCTTGATGATCGTGCTGCTCAAAAGGAGCCCCAAGCATAGTGCTGAAGTGC
CGTCTAGTGTTCCTAAGTGCAAGAAAGCTGTTATGTGTCTCACAGAGAAAATACATGTGT
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Sequence=5434;DNA;Homo sapiens
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TABLE 2
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AAGGG
Sequence=5435;DNA;Homo sapiens
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CTGCCTGGGCCTCCCAAAGTGCTGGGACTACAGGCATAAGCCAGCACACCTGGCCGTTAA
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GAAACACTGTTGAAATAAATGGAAAGCTAAAAGTCTCAGCATAGAAGCTATAAAAAGAAA
CAAGTGGAAATTGTAGAACTGAAAATACAATACCAAATTTACTGGGAAGGGTCTNAACAC
AATGAAAAATGACTTGAGGGAAAGAAGTCAGTAAATTTTGAAGATCCTTGAGCCGGAAAT
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TTGGGGGATCTGGGGGGGACAATTTTGAAAACAGGTCTTAATATTCATGGTCTTAAGGAG
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Sequence=5436;DNA;Homo sapiens
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GCATTTGTGGTAGCCACGCAAATCCTTTAGTAAATCTTTCATTCTCTTTATTAACCTTGG
AATAATTTGAAAGGGNTTTTGAATTGGGACTATTTCTTTTTTTTTTCAATCCACTCAACAT
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AAAAAAAAAA
Sequence=5437;DNA;Homo sapiens
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TABLE 2

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CCTTTAAAAANAGAAAACTTATATTNTCTTTTTCAAAATTATNAAAAAATTTNCCCCCCT
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ACCCCCTTTCNCCAATAA

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NGTTTNATNTGGNANAANCCTTTTTATTGTGGCCCCTTGTTTAGGNCNTTNNTAAAAAAA
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TCAG

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CTT

Sequence=5447;DNA;Homo sapiens
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TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2

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TTCAGCCAGGAGGAGTGGGCTCTGCTGGCTCCTTCACAGAAGAAACTCTACAGAGATGTG
ATGCAGGAAACATTCAAGAACCTGGCATCTATAGGGGAAAAATGGGAAGACCCGAATGTT
TGAAGATCAACACAAAAACCAAGGGACGAAAATCTAAGAAGCCATACGGGGAGAGAGACT
CTTGTTGAAGGTAAAGAAGGTAGTCAATGTGCAGAAAACTTCAGTCCCAATCTCAGTGTG
ACCNAAAAAGACTGCCGGAGTAAAAAC

Sequence=5471;DNA;Homo sapiens
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCGTTTGG
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ATGTTTGTATGAAAACAAATATTTCATCATCACTTATTTTCTATACTGNTTGCAACTAAG
TTTTACATTTTTTCATTTTCAACANAGATTTGAATTTTAATGTCCCANAAATATAAANAAG
ATGGCATTAAAATGTCCTATATGTTGGCAGTCCTACCCTGAANACTTTTTTTGCTTATCT
TTTGTTCTGAACTACAGTCTTCGCAGAAACTAAATTAGTGACTGGNCAACANAAGAAAAT
AGACCATCCTGGGCTAAAAATGGN

Sequence=5472;DNA;Homo sapiens
CCCTTAGCGGCCGCCCGGGCAGGTGAGAGGCAGAAGGACTGGAAAGAGGGCACAGTGAAG
GGCCATGGTGGGGGATACCAGGCAACACTGGCAAGCAAGTGGACAGTGATGAGTGAGGAG
GTAGAGGAAGGTCCCCTCTTAGCTGGGACATTATGCCTCTATAGGACGCTGAACAAAGTA
ACCTGCGGAGGTGTTACTTTGTGGGAATGTAGACTGTGAAACTGAAGGAACTGTTTTATC
CACCTCCCCGTAGTTTGCTCTGTGCTGAGGCTGCTGTACCTCGGCCGCGACCACGCTAAG
GGCGAATTCC

Sequence=5473;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGAGACTTCGGGCTTGTTCGCTGGTGGCGT
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ATGCTGGGCGTGTNCGCTCTTCTTGCTTGTCGTCTCTATCACTACGTGGCCGTCAACAAT
NCNAAGAAGCAGGAATGAAAGTGGCGCTTTCTTCCGCCCCAGGGTTCCAGGACATAGTCT
GAGGCAAGATGGAGGGTATGAAGGGGCCTTCACACTTCACTTATTCCTTTCTACCCATCA
CAAACATTCAAAGCAGCTACACCTGGATTTTTCCAAACAACTTTTATTTCTCAGAGTCTT
CCTTAATCCTATGGAACAAAGAAGCTGCCACTTGAATAAGGGCCCAGTATAGGGGGCTTG
CTTTTTTTACTCNCTCCCCCCAATATAAAAATTTAGAACTTTCAAAAAAAAAAAAAAAAA
AAA

Sequence=5474;DNA;Homo sapiens
CCCTTGGCCGCCCGGGCAGGTACGCGGGAAGGTTGGCAGAGTCAGCATATATGATTCCAA
AAGGCAATCCGGGAAGGCTAAGGAGACAAGCGTCAACTGGTGTCTGGCTGATGGCTATGA

TABLE 2

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CCTGGAGATCCTGGACGGTACCTCGGCCGCGACCACGCTTAAGGGCGA
Sequence=5475;DNA;Homo sapiens
GGTACTGAAAACCACTTCCAGAGTCTAAAGCAGCTCANATGTTATCTCTGGGGGAATTAG
TGTTCCCCTCATTTAGCAACCTCCATACCACAAGGTCTCTGTCTGTAGTTACTGGGATTA
TCCAGATACACTATCAATGATACAAATTCATAGGAGTATTAATGCATTTCTTTAAACACA
ACTTGATTAAGAAGCAAATATGTTAAGCAGTTTTCTTTTTCTGCTGCTAAATTACAGTTA
GACACTTCAGTATCTTCTCTTTACATGTGTATATAAATTAGTAAGAACCTGCATCCAAAG
CAATGTAGTGTGTGTATGTATCTATATATATTTATTCTAACTCAGCACTTCAGAAGCCTT
TTTGAGTTACAACAATATTTTAGTTTGCCTCATCTGTAGAGGTAAAATTTCTATATTACC
AAGCTCCAGAGGAATATGATATTTTACAGGCCAATTTTCTGGCCGTAGTCCCTGGGGCAT
TCATTTGCTGGCCTCCATGGGAATGCTGTTAAAACATTGTTACCGCAGANAAGAANGCTA
CCAGGACAGCATTTATAATTGTTGAATGGGAGCCTTNTTCCTNTCCCTTCAC
Sequence=5476;DNA;Homo sapiens
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NGGNANTTNNNTTTTNNAAAAGGGGGCCNCCCTGCTTAAATNNTNANCNNNGGNNCCCCC
TNAACAANGGANGGAAANGGTTTTANTCCCNAANANANNCCCTACCTTNGNGTNNCCCCC
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TTNCCAAANAAGGAAGG
Sequence=5477;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACCATGTTTTATAAACCTCTTGATTTCCAGCAACA
TACTATAGAAAACACCTGCTACTCAAAACACAACNTTCTCAGGTGTCATCCATTTGNTGG
CGNGNAGNAGACAACCATATCAATTATCTTGGTATGNTGCAAGCTTTTCAAAGATAGCCC
TGAAACTTAAAAAGTNTGGTTGCANTTAGTTGTATCTGATGGATATAAATTTGCCTCCTA
GTTCACTTTGTGNTCAANGAGCTAAAACTGTGAACCTAACTNTCTCTTATTGGTGGGGTA
ATAACTGAAAATAAAGATTTTATTTTCATGCTCCACTTTTCTTTAAAA
Sequence=5478;DNA;Homo sapiens
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ACCATTTGGCAGTAGTTTCTCTTGGTCTCCACCATCACAACAGTGGCCCTGGTCAAGGGT
TCAATTCCCGGCTTAAGGGAATGATACTTNATCTTCTTGCTGCTAAGTATTCTATGTATT
ATGTGTGTGTAAACATAAAAAGAAGCTTTAATTAATTNGTTTAAAAAATTAATAAAGAGC
CTTAAATCAAACATTTTGTCACAAAAATTAAAAAGTATAATTGCCTTTTAGTTCACGTGA
CTTAAATAATCTTTTGGGGAAATAAAATCTTTGGTCTAA
Sequence=5479;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTTTTTATGTGAACATACATTTTCATTTTCT
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GAAACTACCCTACTCTTTTTTCCAGAGTGGCTCTACTTTTTACATACAGCCACTCATACAA
TTCAGACAGCAATGTATGATTGATCCAGTTTCTTCACATCCTCACCAGCATTTGGTATTA
CTACTATTTTTTTATCTTAACCATTCACATAGATGTGTGTAATGATACCACATGTGGTTTT
AATTTGCATTTCCAATGGCTAATGATGTTGAGTATCTTTTTGTGTGCTAATTTGCCATCT
ATGTATCCTCTTCGGTGAAATGTCTTCATGTCTTTTGTCTATTTTCTATTTAG
Sequence=5480;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGNTNTACCATTTGCCTCCCGGGCTCAAGCGATTCTCCTGC
CTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCATCATGCCCGGCTAATTTTTGT
AATTTTAGTAGAGACAGGGTTTCACCATGTTGCCCAGGCTGGTTTCGGAACTCCTGACCT
CAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCG
CCCAGCCATCAAAATGCTTTTTATTTCTGCATATGTTGAATACTTTTTACAATTTAAAAA
AATGATCTGGNTTTGAAGGCAAAAATTNGCAAANTCTTGAAANTTAAGAAAGGCCAAAAA
TGTAAAGGAGTCAAAACTATAAATCATAGTATTTGGGGAAGTGAAGACTGGAAAGCTTAA
TTTGCATTTAATTCACAAAACTTTTATACTCTGTCCTGAATATACATTNTTNTTTNTTTA
AAAA
Sequence=5481;DNA;Homo sapiens
CCCTTTCGAGCGGCCGNCCGGGCAGGTACGCGGGGCTCTTCGTTAAGTCGGCCTTCCCAA
CATGGCGCAGNCTATNAACATCACGGAGCTGAATCTGCCGCAGCTAGAAATGCTCAAGAA

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CCAGCTTGGACCAGATGTATGTCCCTGGGGAAAGCNTGCATTGAATGTGGGNAACAACCG
TTGCTCATCGGATGNGGGGGGAACCTGGGGGGTACCCTTCCNGGGCNCCGNCGACCCCAA
CCNCCTTAAAGNGGGNCCGGAAAATTTCCCCAGGCCCNCNAACTTTNGNGGCCGGGGCCN
CCGNTTTTAACCTTAANGNTGGGGNAATCCCCCGAAAGNCCTCCCGGGGTTAACCCCAAA
NGCCTTTTGGGGGCCGNTAANAATTCAATTGGGGGNGACCANTAAAGCCTTGGTNTTTTC
CCTTGGTTGGNTGGAAAAAANTTTTGGTTTTAATTTCCCGGNCTTTCACCCAAANTTTTC
CCNNCCNNCNAAAACNATTAACCNGGANGNCCCCNGGGGNAAAAGNCCCANTTTAAAAAG
GTTTGGTTAAAAAAGNCCCCCC

Sequence=5482;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAATTAAAAATACAGAACCTACTAACACTA
CTGTATTAACAAGCTGACTCCTATAATCTTTTGGAGATGGCAGATGATACTGGTTTTTAA
AATACCCAATCACATATATGCATTCAAGAAAATATTTTGTCTTTATTTTTATTACAAGTG
CGCTAGCTCCCATTTCCTCAGTGCTCTTTAGCAATGAGTTTTTATGTTAAACACTTCCAA
CTGTCAGTATTACCATGAAATCAACATTAGAAAATAAGGTAGAAAACTGAGTGTTTTGCT
TAAAAAATAAAAAAGGATTAAATAGCTGTTGTATCCAAACATCACGTTCTGCTTCCATCT
CTACATTCCACTTTCCCCATTCTTGGAGATTAAAAAAACAGGGTTAGGAACTTTAATATC
TGACAGACTACAAAGGGCAAAGACGTGGCACATGGCCAGTGCCACACCTACCTGGTTGCC
ACAACATTCTGAAACAGACCACACTTTCAGGAAAATGACTA

Sequence=5483;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTANATT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTAAAAAAATNAAAAAAAANTTTTTTTTTNAAAAAAAAAGGGGGNNC
AAAAAAAANTTTTTTTTTNAAAAATTTNCCCCCCNAAANNNCTTTTTTTTTTGNANCCNG
GAAAAAAAANNNNTTAAAAAAANTTTTTTTANAAAAAAAAAGGTTTTNNNNTTTTNNNGG
GAAAAANATTTTTTTAAAAAANAAAAAAAAA

Sequence=5484;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACTTCACCACAAATACAGAGAAGCTTCAAAA
ACTGAAGCTCGAATATGAGACTCAAATTAAGAAGATGCTATGCTCAAAAGATAGCCTGGG
ACTAAAAGAGGAACTGACAGATGAAGACAGAGAAAAGGTTGCAGTGCACGAGGGGATTAA
CTCAGGAACAGCCATGTCAAGAGGATTGTATCAACCAGCAACAATCTTTATGGGCCGCCA
AATGTCAGCCATCTTAAGCATGAGAGATTTCAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=5485;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGAGGCGTCAGTGTGAAGGGAAGGCT
AAGGACGCATCGGTGCTGGAGAGTTGAGAATATGCCTTCCCTCCACCCCCAACCCAGTCA
CCTTATTTGAAAAAAAATTAAAAAACACCTTTTATTTAAAAACCTAACCCTGGAAGTTTG
CTCGCTGCCTGAAAATCATATGCGTGGTTTTTCCTGTTTCCTGCTCTGTAGCTGACATCA
GGGGAGCAACGTGAACGCAGGAAAATGGAAATCAACATTTGAAACTTTTAAATGGAAGCT
TTATTGGGGTTCCACATATGGGAAAACTGCAAATAGCAGAAGTATGTGACTCAATAAATT
ATTCTGGAGTGACCACATCCTCTAACTGCCTTCCAGGACAAGACGGAAAAATGTGAACAA
TGCTCCTGAAGGCC

Sequence=5486;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGANCTTTTTTTTTNTTTNTTTTGNGGANNTNNCNTTT
NNTTTTTTNNACNNNTTATNTTNACCTTNGCCTNTTNGAGCTTCACNTTCTNNTNTANAA
NGCNCACATGGANAANATTATAATACAATGTTGTAAATCCAATANTAAAAGATAACCAGN
TTATTTNGGGGAGCAAAGAGAAAGGGTCCCTAACCCCAGACTGCCTGCGAAGAGGTGAAA
TGGAATTGAATGGGATTATGGTCAGCCAAGGCTTCCTAGTGGAGCTGCTACCTGAACTGA
GTTTTAAGAGGGGTAGGAAAGAAAAAATGTAGTGGGTCATAATGGCATTCCAAATACAGG
GGACACAAACAGCTCTGTGTTTATGAACTACAACCAGTTGTTGACTTTTGTTTCAAGTGG
CTCCCCTTCCCCANTGCTGTGTGGACNATGGACTGAAAAAGGAANAAGGCTGGGAGCNAN
GGACCAGTAAGCTGGAGCAACNAAATGCACGTGAGAATATGGAGGCCTNAACTCTGCNGG
GGGTTGGACAAACCATTAGAAGAGCCCAAGAGCCAANAAATTCGTCCAAATAGTTTATCC
ANCACCCAATTTTTTTTTTTAAAAAACAGNAGGCTCACNTTTNTTTAACCCAAGNCCTGG
AANTACCCTGCCCCG

Sequence=5487;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCC

TABLE 2

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NTTTTTTTTTTTTTTTTTTTNNTTTTTTTTTTTTTTTTTTTCNNAAANTTNNGNGGNNNNN
AANGGGGGGGGGAAAAAAAAAAAANNNCCCCNAAAAAAAAAAAAAAAAAANNNTNNNNNNA
AAAAAAANNNCCCNGNNNAAAAAAANNNNNAANNGGGNNCNNNNNNNTTTCNNCNNNNTT
TTNNNGGNNNAAAANTNNCCNTTNNNGGGCCCNNAAANTTTTNAAAA

Sequence=5488;DNA;Homo sapiens
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TTCACTGCTTTTTGAATTCATAATTCTAATTTTCACATTATTGTTAATGGAAAATCATAT
CTAATAAAGGTTTTAGTTATTCCCATGCACAGTATGAAAATTCTCATTTGCTGAGGGTTT
GTTTCGAAGAAAATGTNTTGGCATGTCTTTGAGAACATGTTTTATTGNCTCCTGTGTCAT
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TTCATGGATTTCCTTTAACCATTATTAATTTGGGATAGATCAAAGAATCTTAACATGTTT
TCAANTTTCTAAANGAAGGCTGCAAGATTTTTTGGNAAACCTTTTTGGAATGNATTTTAC
CAATATTCTCTTGGTAATTAGCCTACATAAGGGACCTGGCCTTTTT

Sequence=5489;DNA;Homo sapiens
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TAAAACCTAGTATCTTTTTCTCTTCTATGGAAAATCCGAAGGTCTAAACTTGACTTTTTT
GAGGTCTTCTCAACTTGACTACAGTTGTGCTCATAATTGTCCTTGCCTTTCCAGCTTAAT
TATTTTAAGGAACAAATGAAAACTCTGGGCTGGGTGGAGTGGCTCATACCTGTAATCCCA
GCACTTTGGGAGGCTACGGTGGGCAGATCATCTGAGGCCAGGAGTTCGAGACCTGCCTGG
CCAACATGGCAACACCCCGTCTCTAATAAAAATATAAAAATTAGCCTGGCATGGTAGCAT
GCCCCTATAGTCCCAGCTGCTCAGGAGGCTGAGGCATGANAATCGCTTGAACCTAGGAGG
TGGAGGTTGCATTCAACTGAGATCATACCACTTCATTCCAGCCTGGGTGACAAGAGCAAG
ACTCTTGTCTCAAAAAAAAAA

Sequence=5490;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGGGCTTCATCATGGAGGACTACCTGCAGGG
TTGTCGAGCTGCTCTGCAGGAGTCCCGACCTCTACATGTTGTGCTGGGAAATGAAGCCCG
TGATTTGGACTCCACAGTGTCTGCTCTTGCCCTGGCTTTTTACCTAGCAAAGACAACTGA
GGCTGAGGAAGTCTTTGTGCCAGTTTTAAATATAAAACGTTCTGAACTACCTCTGCGAGG
TGACATTGTCTTCTTTCTTCAGAAGGTTCATATTCCAGAGAGTATCTTGATTTTTCGGGA
TGAGATTGA

Sequence=5491;DNA;Homo sapiens
CCCTTCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTAC
TGCTAATCACTCTGGGGAAAACANAGGCNGGTTGGGGAGGGATAACAAGTAACAAACATG
GGGGAGTGTN

Sequence=5492;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACAGGCAACCATCACAGATGTCCATCAAAGCTGGA
TTAGATGAAGACAAACAACGCAGGCTTTGAGGATAAACTGAAGGTGCAGCTCAAAAGTTT
CCTTTTCTTATCCAAGGGCATTATAGGACCATTGTCTTCCTCCCTCATGAAGACAGACTT
GTTCCTGTCCTCTTTGGCTACTGAAATGCAGCTCTAATGACTCTGTCACTAAGAGGTTGA
GTGGGCCGAAAGTTGTCTCCCAAAATCCCATCACAGCCTTCCACAAGTTCTGCCCCCTTA
ACATGTGTCCCCAGCCTTCGAAATTCTTCTATAGAAATAACCGGCATCCCCACTTTACGT
CCAGACTTTCCATTCTCCACACCTGTAGCTGGGATATAGTTAAAGGGTATCGGAATAATA

Sequence=5493;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACGACCTGGACGGAAATGGCTATATCAGCAAGG
CAGAGATGCTAGAGATCGTGCAGGCAATCTATAAGATGGTTTCCTCTGTAATGAAAATGC
CTGAAGATGAGTCAACCCCAGAGAAAAGAACAGAAAAGATCTTCCGCCAGATGGACACCA
ATAGAGACGGAAAACTCTCCCTGGAAGAGTTCATCCGAGGAGCCAAAAGCGACCCGTCCA
TTGTGCGCCTCCTGCAGTGCGACCCGAGCAGTGCCGGCCAGTTCTGAGCCCTGCGCCCAC
CAATCGAAATTGTAGAGCTGCTTGTGTTCCCTTTTGATTCTTCTTTTTAACAATTTTTTT
TTTTTG

Sequence=5494;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGATATTTGCTAAGAGCACCATGCGCGCA

TABLE 2

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GCAGCCATCTCCACTCCAAAGTTAGACAAAATGCCAGGAATGTTCTTCTCTGCTAACCCA
AAGGAATTGAAAGGAACCACTCATTCACTTCTAGACGACAAAATGCAAAAAAGGAGGCCA
AAGACTTTGTAAGTTTGTTCAGAGTCTCACTTTGTGAATTTTAACAAATTATCTTTAATG
GCAGAAGGAT

Sequence=5495;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCCGGGTTGTGGGGCCTCAAATACTGCTTTG
CCTTGCTCTGCTAACCAGCTGCATTTTACAGATCCCAGTATGAACTCTAGTGTTCTTCAG
AACATACCTTTAAGAGGGGAAGCCGCGCACTGCCACAATGCAAACACTAACTTTGTTCAC
AGTAACAGTCCAGTCCCCAACCACCATCTTGCAGGTTTAATAAATCAGATTCAGGCTAGC
GGGAACTGTGGGATGCTCAGTCAGTCGGGCATGGCTTTAGG

Sequence=5496;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTNTTTTTTTTNTNNATNNNNNNNNNTTTAAA
CAATCAGTAAATTTATTNAGGACAAGAATTTACCATATAACATTTTTTTTANTNNAANTNT
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Sequence=5497;DNA;Homo sapiens

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CTTTCTTCTCCTTTGGATAATTTCAATTATTTTCTCTTCAAATTCACTGTTCTCTTCTTT
TGCATGCCCAAATCTTTGTTGAATCCCTCTAGTGGGTTTTCCATTTCAGGGATTATACTT
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ATTTTGTTCATGCATGGTTTTCCTGATTTCCTTTAAGTTCTTCGCCATGGTTTCCTTTAA
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TATTGAGGGCTGGAGCCAAACTATTTGGGGACTTTTTCAACTATTTTTGGGNAAGGGGGT
ATTCTTTGCAGTATGGGGCAAGTGAAAGTTTCTGNTGGGGAAATCCTCTGGGGGTAACCN
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Sequence=5498;DNA;Homo sapiens

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TGACTTGAATAAGAGCTTGGATGACAAAGGGAGCCAGCTTGGGCTGTGATGCCACGTAAT
TCAGAATGTAGTTTCTGATGTCCATCCTCTGCTCAACAGGTAAAGGACTGACTCGGCTGA
CAAGTTTTGAAAGACATGTTGCTGCAAGGAGCTGAGCATAGGATGTTGTTCCTTGTTCTA
ATAAAAGTTGACACTTGCTGAGAC

Sequence=5499;DNA;Homo sapiens

CCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTTATATANGCATGAGCCCACTGANCCCT
GGCCCCTGAAANCGTTTTTCTNNAAAGGCCCTCAGTGAGATAAATTAAGAATTTGGGCAA
TCTNCTNTCCCTGGGGCCAGGGATCTCTCTANAANAANCCCTTGCCCCTCTGTTNGNAGG
CACAGTTTNAAAATAAGGAGGAGGAG

Sequence=5500;DNA;Homo sapiens

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AAAAAANNCTNTTNAAAANGCCCTGGGGTTTTTTNNTTTTAAAAAAAAAAANAANNNNGG
AANNTTTTTTTTNTGGNANNGGNNGGTNTAAACNCCCANANAAAANTTTNTTTTNNANNN
CCTTTNTTTTTTTANNNCAACCNTATANAACCCNCNNNGCCNCNNNAANTTGGAAAAAAA
ANNNTTTTAGGGNGNATTTTATTTANANTGAAAAANANTTTTTTTTTTTTTCCNAAANCNN
AAANAAAANTTGGGGTNTTTATTNCCTTNNNNGGNCCCCCANAAAAAAAANNTTTTTTTT
TTNAAAA

Sequence=5501;DNA;Homo sapiens

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TABLE 2

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TTTTTTTTTTCTTTTTNGGGAAAAAAAATANTTTAAAAAGNGGGNNAAAATTTTTTTTT
TTTTTAAAAAAAAANCNNGGNGAAAAAAATNNAATGGTNTNCNAAAANNTNNNNCNAANN
NGGGGNNCNAAANTTNANNNAANNTTTTNTNANGGGCNNNNNAANGNAAAAANNTTTNAN
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Sequence=5502;DNA;Homo sapiens
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TACACAACCCTCAATAAATGAATCTGAAAGTGATCCTTTTGAAGTTGTAAGGGATGATTT
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TTGCCATGATAGTGATGATGATATTATGAGAAAATGATCGTGAAGTATGACTCAGGAGAT
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GCGACCACGCTAAGGG

Sequence=5503;DNA;Homo sapiens
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TAATGGCATTAATCCATTCATGAAGGAAGAGCCCTCCTGTTTGAACCACTTCTTAAAGGT
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CATTCAA

Sequence=5504;DNA;Homo sapiens
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TGGAGATCTCTTTGGATCAAGTAGAAATGTGTTGGAGCTCAAAGGTAAAGGCTAAAATAT
TAATTTGGGAGTAAGTTNCATTAANTGAAAGGTG

Sequence=5505;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACAGCCTAGAAGAAAACAGAGAGATGAGCAGCTTC
TGACAAATGTCCTGGAAACACTTCGAGGTGATGGAAATGTGTTAATAGCAGTGGACACAG
CAGGCANAGTTTTGGAACTTGCTCAACTTCTTGATCAGATTTGGAGGACTAAAAATGCAG
GATTGGGTGTTTACTCATTGGCACTCCTAAATAATGTCANTTCAATGTGGGTGGAAGTTT
TCTAAATCCCAAGTAGAATGGATGANTGATAAATTGATGAAAATGTTTTGAAAACAAAAA
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Sequence=5506;DNA;Homo sapiens
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TATTTTTATTTAAGTTAAAAATCACAAAAGAACCGCTACGCATGGTGGCTCATGCCTGTA
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CCCTNACCAACATGGTGANACCCCGTCTNTCTAAAAANTNCAANAATTAAC

Sequence=5507;DNA;Homo sapiens
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TTACATCTATTATAACCAGCAGCGGTTTATTAACTACACTAGAGATGCTGTCAAAGGAAT
AGCTGAACAGTTAGGGCCTACTAGCCAGATGGCTTGGGAAAACAGAATGGCCCTAGACAT
GATATTAGCCAAAAAAGGTGGAGTTTGTGTTATGATCAAAACTCAATGTTGTACCTCGGC
CGCGACCACGCTAAGGGCGAATTCCAGCAC

Sequence=5508;DNA;Homo sapiens
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AATAGTAATTGCTGGCAGCCTGTTATCGCTACATTGATAGTAAATTNNGGGCTCCTAAAT
GCCAGAATCACGAGTGAACAGACGTCAGATCCTGATAACAGGGTGCAGGGTTGTTTATAC
TTCATTGCTTCCTTCAAGGACATGGACTTAAACCATTGGATATTGAGNTTATGAAAGCGT
TGCATGAAAAAAGTGAATTATCATCCCACTTATTGCCAAAGCAGACACACTCACACCAGG
AGGAATGCCAACCAGTTTAAAAAACAAGGGGANCAGGATGTGTTAACCCANGNTTCTTAT
ACCGTCTCATAATTTGCAAGTTTTACTATTTTTAAGTATAATGTGTTGCAATCCATCCTC
TTACTGCTTTACTATATTGGCATTTATACTGNATTAGAAATAACTCTTCAATCTTCTGCT

TABLE 2

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TTGTCAAGTTTTAAATATGGCTGGTTTAAGGGTCTCTAATAACCCCCCACACAAGACAAT
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TABLE 2
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Sequence=5515;DNA;Homo sapiens
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Sequence=5528;DNA;Homo sapiens
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Sequence=5540;DNA;Homo sapiens

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TTTGAGACGGAGTCTGGCTATATCGCCAGGCTGGAATGCAATGGCGCGATCTNTCCTCAC
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Sequence=5546;DNA;Homo sapiens

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Sequence=5547;DNA;Homo sapiens

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Sequence=5548;DNA;Homo sapiens

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TABLE 2

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TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2
857/3461

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TABLE 2
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GGTCAAAA

Sequence=5579;DNA;Homo sapiens
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CTTAAACTTGAATATTGATAACTTTCTTTAGGTTTCAAAAGTTCACTGTTATTATTTCTT
TGAATANACTTTTACCCCAACCTCTTGCTATACCTCCTCTTTTANACCAGTAATGATTAN
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Sequence=5580;DNA;Homo sapiens
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AATNAAAAAGGANGTTTTNAAAAATNNNACCTNGCCCNNTTNTGAANCANTTTAAAACCC
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AANAGAACNTTTTTNGGAAAAAANAAAAAAACCCCCCTNCNNCNNNAATAANNCNAATTG
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Sequence=5581;DNA;Homo sapiens
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TCTTTTCTACTGACACCATTTCCTGGGCGTTAAGTTTNAAAGAACTGNTCAGCCATGGGG
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AACCCCAAGGG

Sequence=5582;DNA;Homo sapiens
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Sequence=5583;DNA;Homo sapiens
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TCTCCCTTCTGGTGGGTTTGTGGTGTCNCTGACTTCAAGAATGAAGCCCCAGACTGTCGT
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CCTACATTAAATAGGNTTTAAAAAAAATTATTTGG
Sequence=5585;DNA;Homo sapiens
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GTTATTCCTTCAATCATTTCAAA
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Sequence=5589;DNA;Homo sapiens
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TABLE 2

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TGACTATCTGGATCTGAGATTATGTCATCTTCATCAAGTTCTTCTTTAACCAGAGAGGCT
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Sequence=5590;DNA;Homo sapiens

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CCCCTGAAGCCTGCAAACGTTGTCATCGAAGGGAAGGGTGGGGGGCAGCTGCGGTGGGGA
GCTATAAAAATGACAACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAGGTCCTTACTGTCG
TTGGATCCCATGCTAATGAGGTCATCAGAATCAACATTGTGAACTATGGCTGCCTTGTAT
CCTGCTCTCTGGGCATTTAAAACCTTTATATCAAAATTACAATCAAGTCTTCTAATTAAC
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TTCTCTGGTTTTGAGTTAATCAAAAAA

Sequence=5591;DNA;Homo sapiens

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TTGCNAATCCNNTTACCCCAAAGAATTAAATTGGAGCTAGGTTAANGGCAAATGCAGGTA
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Sequence=5592;DNA;Homo sapiens

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GGTTCTTA

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Sequence=5595;DNA;Homo sapiens

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Sequence=5596;DNA;Homo sapiens

TABLE 2
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Sequence=5597;DNA;Homo sapiens
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Sequence=5601;DNA;Homo sapiens
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Sequence=5602;DNA;Homo sapiens

TABLE 2

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Sequence=5604;DNA;Homo sapiens
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Sequence=5608;DNA;Homo sapiens
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GACCTCANGNGAACTGCCTGNCTTGGCCTCCNAAAGTGTTGGGATTACANGCGTGAGCCA
CTATTCCCNGCCCTTTTTGAATTTTAAAAAAAGACTTTAGTTGATCAACACCAAACCCCC
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Sequence=5613;DNA;Homo sapiens
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Sequence=5614;DNA;Homo sapiens
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TABLE 2

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Sequence=5615;DNA;Homo sapiens

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AAAAAAAAA

Sequence=5616;DNA;Homo sapiens

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Sequence=5618;DNA;Homo sapiens

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TABLE 2
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TABLE 2

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Sequence=5625;DNA;Homo sapiens
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GG

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CTTTTTTTTATTAAAAA

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TABLE 2
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TABLE 2
868/3461

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TABLE 2
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Sequence=5643;DNA;Homo sapiens
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TABLE 2
870/3461

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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
874/3461

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TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2
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Sequence=5746;DNA;Homo sapiens
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GGCAACAAGACCGAAACGCCCGTCTCTTTAAAAAAAAAAAAAAAAAAAAAGTGCAAAGTCC
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CAAATTTCAACCAGTATTTTCGATTTTTTGAGGTCTATCATCTGAACCCTTAGTGGCAAA
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TABLE 2

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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2

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TABLE 2

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Sequence=5791;DNA;Homo sapiens
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TABLE 2
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TABLE 2
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CTGTTTCAGAGGAGGGGGAGGAGGTAGCAGATGTCAAGGGATTTCCATTTCTCTTTCGAT
GCCGACATACTTCAGGGCATCAGCCTGGCTGTATCTGTAATCAAAAAACAGCTCTTCGCC
AGTCTGGATGGCTCTCTTGGCAAAAATACCTATCCTGTGATCACCGTTAACCATCATAAC
TGCAAAGAGACACACTGGTGTCAGTGAGCATGAAGACGGGCCACGGGGGGTTAACTGACT
TGTTCACATAACAAACAACTATCCCAGAAGTATTCAAGTCCATCATCACAGGACTGAAAA
GG

TABLE 2
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Sequence=5809;DNA;Homo sapiens
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Sequence=5810;DNA;Homo sapiens
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TABLE 2

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GGGCATTTGGTTTTTATTAGAAAACCCCTTAGTAAGCACTTTTTTTTAACCCAAAATAGAC
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GGGGGAGGCA

Sequence=5820;DNA;Homo sapiens

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GGGGTCCCTTG

Sequence=5825;DNA;Homo sapiens

TABLE 2
900/3461

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TABLE 2

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CATTTTTATTCTAAAAA

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Sequence=5836;DNA;Homo sapiens

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Sequence=5837;DNA;Homo sapiens

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TABLE 2
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TABLE 2
903/3461

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TABLE 2
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TABLE 2

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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
912/3461

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TABLE 2
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Sequence=5908;DNA;Homo sapiens
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TABLE 2
914/3461

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TABLE 2
915/3461

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TABLE 2
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TABLE 2
917/3461

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TABLE 2
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TABLE 2
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CTTATAAAGAGCTCAAGACTTTTTTTTTCTTTTTCTTTACATTTTACTTCTAACTGCATT
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Sequence=5943;DNA;Homo sapiens
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GTAATTTTAGTAGAGACAGGGTTTCACCATGTTGCCCAGGCTGGTTTCGAACTCCTGACC
TCAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGC
GCCCAGCCATCAAAATGCTTTTTATTTCTGCATATGTTGAATACTTTTTACAATTTAAAA
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Sequence=5944;DNA;Homo sapiens
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Sequence=5945;DNA;Homo sapiens
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Sequence=5946;DNA;Homo sapiens
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TABLE 2
920/3461

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GGTAGTTTAT
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GCCTCATTTTATT
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AAANNTTTNNAANCCCCNGGNTTNTTTAAANTGAAANGGNTTAAAAAAGGTTTTTGGGCC
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AAAAANATTTTTTCTTCCCCAANAAAAACCNCGNNNGGGGGTTTNGGGGGNCCNTNAAGG
GGGAGACCCCNCNACNCCCTTTTTTAAANGGGGNNNNCCCCCCCNCAAAGGGGGGGGNGG
GGATANAAAATTTTTTAAACCCTTTTTNGGNNAAAAAAAAAAAAAANGGGGNNAAAAAA
AAA
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GCTCTAGAATTAATGTTAATACCAATTTTTCTTCTCTGTTATTTACTGTCATGTGGTATC
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Sequence=5956;DNA;Homo sapiens
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ATGCAAAATCTGCATATACTAAGGGCTGACTTTTCACATACATGGGCTCTGCAAGGACTT
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TABLE 2

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Sequence=5957;DNA;Homo sapiens

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GTTTTAAAAAAAAAATAAATTCGTTTAANGTTNTTTATGGGGTTAAAAGGGAAGAAAATN
CAAATTTNCATTTCTTTACATAAAAAAAAGAAACCGNGCAAGGAGGGGGACTCAGGNAAA
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Sequence=5958;DNA;Homo sapiens

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CTTANTGTTTCCATTTGTATTAATGGGANTACTAAGTCCCTCTTGTGATTTCTGAACCAA
GCTATTCCTAAGGCCTGAGTTTTATTTTGTTGACACAGAAAATNAATTAGAAGGCCAAGC
CGTGGTGGCATGTGCCTGTAGTCCTAAGTTGCTGAGGTAAGAAGGATTGGCTTGAGCCCC
AGGAATTCGAAGGCTTGCAGCCAAGCTTTTGATTGCGCCACTTGCACTTCAACCCTTTGG
CGACAGACTAAAGACGCTTGTCTCAAAAAAAAAAACCAAANANCGACCAAAAAAAAACAAN
ACCAGGAAAAAATAAACCTAAGGCAATGACNAGTCCCTGGCAAATGCTGGGAAGGGAAGG
CACCANTGGGTCAGGGAAAGGTACCNTGAAACANGGGCTTGTAAAACAAAATAANAATTG
GGGAGGGCCAAGGNTGGGTGGATCCACGAAGGTNAGGAGTTCGANACCNNCCTGGCCCAA
CAAAAGTGAAACCCCCGTTTTTTNTTAAAANTCCCAAAAAA

Sequence=5959;DNA;Homo sapiens

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TTACTTGCTTTCTTTACATTTTCAAATAAAATTAAAATGCTCGAGCACTTCCTTTCAGAA
AGTTATAAAATTAAAAATAATTATTTTAAATGCTCATTCAAATGTGTCTGTATACTTGCT
ATGCCCCTTTTTTCTATAATTCCAAACTGAGACTGATTTTTCAAGAGATTTTTAACTTTAA
TAATTTTAAATCTAGAATCAAGTGAAACAGATATGTTAAATACTGAGTCTAGTTTTCTTC
CATCTTATGGAGCTTCATGGAATAAGAAACTAATCTAGTGCAAATGAAGATTAAATATTT
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Sequence=5960;DNA;Homo sapiens

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TTTTTNAAAAAAAACAAANCAGGTAAAAAAAAAAAAANTTTCCTTTTTTCCTNTNGGCNCT
TTTTTGTAANNTAANGNNTGNNCNNAANCCCNNNGGGNCCNGTNAATNTTTTTTTTGTTTG
AAANAAAANAGGANNGNTTTGNTTTTTTTCCAAANNCAAAAATTTTTNGTTTTTAAAAAA
AAA

Sequence=5961;DNA;Homo sapiens

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GAATATGGACCGGCACCATTATGANATGNTCACCAAGTTCGGGGATGANGGGTNCCTTAT
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GTGCCCTTCTTCAGAGTTGCTACTTGCATTTCTGATACTCCATCAATAGGGCATTGACTT
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TABLE 2
922/3461

Sequence=5963;DNA;Homo sapiens
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TGAAGCCCGTGGACCTTCACAGTGTGTGTTACAGCTGTTAAAGATGTTGTGTCTGGAGTT
TGTTCCTTCAAGATGTGTCTGGAGTTTCTCCCTTCTGGTGGGTTTGTGGTGTCNCTTGAC
TTC
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TABLE 2
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TGGAACTGCCTGCTTCATGGAAAAATTCAGAAATTGNTTAAAATTGGGAACA
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CNAAAAATTTNNAAA
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TCCAAAGTCCTTGTGGAATTTGAAATCATTTTTGTGACTGCTGAGAATGACATTTAGAGA
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TABLE 2

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GAGGTGAAAA

Sequence=5976;DNA;Homo sapiens

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ANNNNTNGNCCCCCCCNAANTTTTTTTTNNTTTNAAAAAAAAANTTTTTTNCCCCCCNNA
AANANANTCTNCNNNNAANTTTNCCCNTTNTTAAAAAAAAAAAAATTNTTGTGNNCCNNA
AAAANNNTTTTTTNNTTTTTTANNGGGGNAAAAAANTTTNGGGGGGNNTCCNNAAAAATN
TTTTTCGGGNNAAAAAAANAANNTTTTAAAANCNGGGGGGGGGGGGGCNTTTTTTTTTTT
AAANNGNAAATNNNNCTTNCCCCNNAGTTTTTNNTTTNCAGGGGGGGTNTNTANNGCCCC
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Sequence=5977;DNA;Homo sapiens

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GGTCTGAGTTGCAGCTGTGTCCCTACAGAGCGGACCTGGGAACACTGGCTGNGGGGACCA
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Sequence=5978;DNA;Homo sapiens

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Sequence=5979;DNA;Homo sapiens

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AGTAACCTAAAACTGATCTTATGAAATAAAGTTAAATCTTGGGGATATGGGTGTGGACAG
GGCTGGTTTNTTCTGGGGCTCTGATGGTAAAATTTGCTTCCTTGCCTTTTCTCCTTCTAG
GGAGCCTGCATTCCCTGCCTCCTAGTGGGCTTNCTCCCATCACTCGAACCTNTGTTTCCA
GCCTCAGGATTCCTAATGTGACTCTGATGTTTCATCTCCCGTTTATGAGGACGCTTCTGA
TTGCTAAGATACATACGGNGACACTATGGAAGTTAACTTGAANATTAAAACCCTGAAAAA
TAGAAAGAATCTTCTATGGNATATCACAAGAGATTACAAGGGCCTGAATTAGAGTGGTGA
CATTTT

Sequence=5980;DNA;Homo sapiens

CCCTTTCNAGCGGCCGCCCGGGCAGGNACTTGCTNCTTTTTTTAATGNTTTTTNTATGGTA
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ATTGTTTGCCTTGGATGCC

Sequence=5981;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTGCAATACACATCTGCAGTGAAAAAGAA
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AGAAGAGGAACTAAGCCTAAAATTAGTGAAGGAAATAACAAAGATTAGAGTAGGAACCAA
GAAAATACAGAATAGAAAAGCAATAGAAAAAAAATCAACAAATTTTTTGAAAAGAATAAC
AAAAGAATTGGTTTTTTGAAAAGATAAACAAAATCAACAAATCCTTAGTTAGGCTAAGTA
AGAAAGAGAGAAGACTCAAATAAACAATATCAGAAATAAAAGAGGAGACATTACAACTGA
TGCCACAGAAATAAAAACATGAGGCTATAATGAACAATTCTATTCCAACAAACTGGATAA
TCTAGAAGAAATGAATAAATTCACAAAACCTTCCAATCTACGATGACTGAATCATGAAGA
AATACAAAGTCTGAACAGACTTATAACTAATGTGGAGGTTTAGTCAATAATCAAAAATGT
TCCCCAAACGAAGAAGTNCAGGACCAGATGGCTTCACAGGTGAATCTTTCCAACATCTCA

TABLE 2
925/3461

AGAAGAATTAATGCCCGTTCTTCTTAAACTATTTTTAAAAATTGAAGAAGANGGCCCACT
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Sequence=5982;DNA;Homo sapiens
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CAAGGAAGGCATAACAAATTAGAGTCAGCTATCCATTCTCCTATGAACGATCAGCAAATC
TCACAGGAGTCAAGGAATAGTACCTCGGCCGCGACCACGCTAAGGG
Sequence=5983;DNA;Homo sapiens
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Sequence=5984;DNA;Homo sapiens
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AACATAAATAAACAGGAAAAGAAACCACCATATTTGAGTCCAGTCTTTGTCCTGCCTAGT
GAAACATCTGTCTTATACCTTTTTGACAGGCANAAATAAGGTCCTTCACATCGCCCCATC
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Sequence=5985;DNA;Homo sapiens
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TCTTTNCCAAATAAGGAAGGGAAG
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NGCATTAACCACCACANCNNNNNCNAACACCAAAACAATTCTCTCTTTCTCCACNCCCCC
ACCACCCNCNGGGNCCNCNTTNCANCACNCCCGACCCNCCCCCCTGGCAAAGCCCCCCTC
CCNGGGGCNNCATCCCGGGGCGNCCCNCNCCAACNNAAGNNNCNCCNGGNNCNNCNCCCG
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GGGGNAGCCCCCNCTCGNNNCCCTAAAAAAAAAAAAAAACACAACNCAACCCCANTGGGG
GATCNCTGCCCNNNCACCGGCNCCAACCCCNNCCTTNAACAACCAANAAAACCCCCNCNA
NTAAANGGAAAGAANNAAAAANCCGGAANCGGCAAACCCAAGGGGGTNGGGNCCCCCACC
GGGGGGCANCTNCCCAAANCCCCCCGGGGGNCCCTTCCANTTNTAAAAGGNNCCCNNCCT
CCACGGACCACNTAATAAACAACCGGGANCCCNNTCCNACCCCTTTGGACAAAANGGNNN
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Sequence=5988;DNA;Homo sapiens
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CACACCTCAGGGAGGCCTCGGTGATTTTGCCAGAGCCTCAGCCTCCATCGCTCTGTAACC
TGCGGGTATTGGATGATTCNTANCTAANACTTCNCGACACCCTNGAAGNTNANAAATGNA
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CC
Sequence=5989;DNA;Homo sapiens

TABLE 2

926/3461

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CNGCTTTNGGGAAANTGGNAAGGTNCTNAACCATTNAACNCCNTGNGGANNAGCTTTTTN
NNGTTNAAANAACNNTTGTTNTCNTTATGCCCTGCCANNAAAATTTNNACTTNTTNCTTG
GGAANTTTTTCACCCAGTGNGANAAAAAACATGCCGGNTTTTACCCCCCATGANGGGGCC
NTTTTTTTTTTTNGAAAANACCCANANTNCTTTAAAANAANCCNCATAGGGNCCCTGGNCC
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ANGGNTTTTGGCCCCAANGCCCTTTTNAAATNCCCAAACTTGGGTTGAACCTTCCCCGGG
NGGGCCCT

Sequence=5990;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTGCACGCCTGCTGGACTCAATTCAGCTGCTT
CCTCAGCAAGCTGCCATGGCTTCTATTTTGCCCACAGCTATTGTCAATAGTAAGTGCTCA
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CTGACAAGAAACCAGGAACAGACCTTTTTCCTTCAGTGTTGTGGTTTCATTTTATCTTTT
TTCTTTTTAAATATTTAATTTGAGAAAATGATGTTACTTTTTTTTTATACTTTAAGTTTT
AGGATACATGTGCACAATGTGCAGGTTAGTTACATTATGGTATACA

Sequence=5991;DNA;Homo sapiens

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AAAACTTTAATACAATTTTTAATATATTAAATATTCACCTGAACTCTCAGCCATTTATCT
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CATTGAAGATTCTTATTAAACCAGCCTCATCTTGTTTGCCCACATCCAAAACTCTTTAGT
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Sequence=5992;DNA;Homo sapiens

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GCCAAGACCACACATTGGAGAAAATACAGTCTTTTCAATAAATGGTTCTGGGAAAATAAA
ATATCCACATGTAGAAGAATGAGATTACACCCCTCCNTCTTGCNNTATACAAAAACCAAC
TCAAAATGAATTCAAGACTTAAATGTAAGATGCAAAACTATGAAACTACTATGAAGAAAA
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ANATACAGGCAACCAAAAG

Sequence=5993;DNA;Homo sapiens

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Sequence=5994;DNA;Homo sapiens

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TABLE 2
927/3461

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TGGCCAAACAAAATTGNGNNGGGNGGACTTTCAACCCTTTTTTTCTTTTTTAATGGGTTA
ACCCAAGAATCCCTCACTAAAGGTTAAAAAAAAAAAAAAAAA
Sequence=5995;DNA;Homo sapiens
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NAAAAAANNTTTTTTTNCNNNAAAAAAAAAAANANCNATTNTAAAAAAAAAAAAGNGGGG
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Sequence=5997;DNA;Homo sapiens
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Sequence=5998;DNA;Homo sapiens
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TTTTTTAAA
Sequence=6000;DNA;Homo sapiens
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TABLE 2
928/3461

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CT
Sequence=6001;DNA;Homo sapiens
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Sequence=6002;DNA;Homo sapiens
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TABLE 2
929/3461

Sequence=6006;DNA;Homo sapiens
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TCCAGAATGTGAGGCATTTTATAAAACAGAAGGTTCAAGTTCCTCAACAAATAAATGGCA
TTTTTACCAAAAGGAGTGGGAGGGAATGGGAACTGTCATAGATTAGAAGACTGAACAGAC
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CAANAAACCCCAGC
Sequence=6008;DNA;Homo sapiens
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CCGCCTCCTGGGTTCGAGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCA
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TGGCCAGGCTGGTNTCGAACTCCTGACCTCGTGATCCACCCACCTTGGCCTCCCAATCTT
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GNNCTAAANAATNCCATTNAAACCAAATGGGAAACTTTAAGTTNTTNANTCAAAGGATAN
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Sequence=6010;DNA;Homo sapiens
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TTCAGACTGCCTCCTAGCCCAAAAAGAAGGATTATGTGGAAAGTTGAGCCTGATGAATTG
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Sequence=6011;DNA;Homo sapiens
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CTTCCAGAGGGTTCGTGGTCTCGCTGGCTTCAAGAATGAAGCCCGTGGACCTTCACAGTG
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TABLE 2
930/3461

Sequence=6012;DNA;Homo sapiens
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Sequence=6013;DNA;Homo sapiens
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TABLE 2

931/3461

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TABLE 2
932/3461

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TABLE 2
933/3461

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TABLE 2
934/3461

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TABLE 2
935/3461

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ATGAAAATCGAGATGGGAAATTAAAAGAAATNATTAAATTGAACAAAAAATAGTGATACC
ANCCTATCAAAAAGAAGTGGAATCAGCAAAAGTCAGTNGCTAAAAGGAAGGTTCATATTC
CTAAACACCTCCTTCAAAAAAGTCTTAAAAGAGGCCCAAACNGGCCATTCAAANGGTCCC
ACTTNCAGGGGACCTGGGGAAACCAGGACCAACC

Sequence=6047;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACCGAACCTGTAATAATATAAAGGAAATGGGGG
ATGACTCCTGAGTGCAGGGTTTCCTTTAGGGGTGATGAAAATGGCCTGAAATTGATGGTG
GCGCACAACAGTGGGTGGTTGCATAACTCTGTGAATATACTAAAAACCACGGAACTGTGC
ACTTTTAATTGGTGAAATGTGTGGTATGTGAATTCTATCTCATAAGGCTAATATTAAAAA
GAATCATATAAAACATTTGCTTTGCTATGATGGCCAGTATGCCATCCCTCCAAGTAGCTC
TGACATTCATTCATTTATTCATCCATTCATTCATTCTACAGATATTTCTTGATAGTCCAC
TATATATGTGGCTCTGTGCTAAGCACTGGGATACAGAGTTGAAGAAGATAGACATTGTCC
CCATCCTCATGCTATTGGGAACATAGACTTTAGATAAAAAATTGCACTGAGGTGTGATGA
ATTTTTTATTATGGAAAGT

Sequence=6048;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACAATGTTTAATAAAAGTGATGAGAGTAGATATCT
TTACCTTGTTATCAATTTTAGGAAGACATAGATTTTTGTGTAGATGGCCTGCATCCTATG
AGGACTCTTCATTTTATCCCTGGTTTTCTGAGGGCTTTTAATCATGACTCAATGTTGGGT
TTTACTAAGTGCTTTTTTCTATTAAGATGATCATATGCATTTTTCTTTTTAGTCCACTAAT
ATGGTAAAGTTCATTTATTGATTTTTGAACCCGCGTACCTGCCCGGGCGGCCGCTCGAAA

TABLE 2
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GGG
Sequence=6049;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGANGTACTTGNTTCACCATACTTNATNCACACCAGNGAAA
GAGTNNTGCATTTANTTGGAGTATNTAAAGCCAGTGGCNGTNTNTGCTCATACTTGGACA
NTTAGGGAAGGGTTTGCCAAGTTNTAAGAGAAGATGTGATTTATTTNGAAATCGTTTCTG
TTTTGTTTTTAAATCAAACTGCAAAACTTAAAACTGAAAAATTTTATTGGTAGGATNTAT
ATCTAAGTTTGGTTAGCCTTAGTTTCTCAGACTTGTTGTCTATTATCTGTAGGTGGAANA
ANTTTAGGAAGCNAAATATTACAGTNTTGCATTGGTGGGNCTCAATCCTTAACATATTTG
CACAATTTTATAGCACAAAACTTTAAATTCAAGCTGCTTTGGACAACTGACGATNTGATT
TTAAATTTGAAGATGGGATGTGTACCTCAAATGGAAATGCATAAATCACCCCGCTNCTGC
GTCGCTCACGCTNGGAACTGAACACCGGANCTGTTCCTATTGGNCCATNTTGGCTNCTGC
TACTACTGAAATCTTGANGTGTANTTAACTTNCTATCTGTGATTTGGGANAGGGAANAAC
TTAACCCAAATGTTTTACCTTNGAAAAATACCATGGGAACTATGCCAATCTTTTGTTTTN
AANCTAAAAAAAAAAAAAAAA
Sequence=6050;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAACTTTCACTCCCCCTCTCTGTAATAAATG
CCTTAAGCAATTTAAATAAGCAGAATGTTTAATTTCATTCTGTCCCATTGTTACCCTGGT
TCTTCTGAGTGCCCAGCTTACCCGCCGAGCTTCTTTCAGTCATCCTCGGTGTCCTCTGAC
AATGCATCTTCTGCTTCCACATGCTCTAGCATTCCTTCACCGGGGTCTTCATAGCCCCAT
GTTGGGCGCCAGAAATGTTGGGGTGATCAGACCCAACACCAGGCCGTGGGGGCTACGAAG
TCCGGAGGAGTCAAAGGAATGAGAAAAGAC
Sequence=6051;DNA;Homo sapiens
TGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGNCCGGGCAGGTACCTTTTTTTTTTT
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TTTTTTNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTTTTTTTATTTNTTTTTTT
NNCTCANNANAAAAAAAAAAAAATTTTTTTCCCCCNNNAAAAAAAANNNCNNNAAAANN
TTTTTTTTTTTTNAAAAAAAAAAAAATTTTTNGCANAAAAAATTTTTTTTTTTTTTTNN
AAAGGGNAAAAAANTTTTTTGGNNNCCNANAAAAATTTTTTTTTTTGGGAAAAAAAAANA
TTNNTTTNAAACCCGGGGGGGGNGGGGNTTTTTTTTTAATAAAAAAAAAAAAAAAAAA
AANNCCCNNNTTTTTTTTNTTATNAANGAGGNGGTTTNTTAANNCCCCCNCNANAAATTA
NNTNNTTTATAAANCCCCTTTTTTTTTNTCCNAAANCAATAAAAAAAACNCCNCNNCAAA
AAANNTANAAAANAAAAANCTTTNNANGGNNTTTTTTTTTTTNTATNAANAAAAAANTNT
TTTTTTTNTNCCNNACACNAAGNNGAAAAAATTNTTTTT
Sequence=6052;DNA;Homo sapiens
CCCTTAGCGTGGACGCGGCCGACGTACCACAACTCCCAGGATTGGTGCNGGNGGNAANCT
TGTATCTGNTNTGCAAATATTGTTTNTATTGTTTTGAGCGACGTGGGCCCTCCTGAACAT
NTTATTTTAA
Sequence=6053;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGTGTCATTTGGATTTGCATTTCTCTGAT
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AAGTGTCTGTGCTGAGCCTTGGCCCACTTTTTAATTAGGCGTTTGTCTTTTTATTACTGA
GTTGTAAGAGTTCTTTATATATTCTGGATTCTAGACCCTTATCAGATACATGGTTTGCAA
ATATTTTCTCCCATTCTGTGGGTTGTGTTTTCACTTTATCGATAATGTCCTTAGACATAT
AATAAATTTGTATTTTAAAAGTGACTTGATTTGGCTGTGCAAGGTGGCTCACGCTTGTAA
TCCCAGCACTTTGGGAGACTGAGGTGGGTGGATCATATGAGGAGGCTAGGANTTCGAGGT
CANCCTGCCAGCATANCGAAAACTGTCTCTACTAAAAAATCAAAAATTAGTCANGCATGG
TGGTGCACGTTTGTAATANCCACTTTNAAGAAGCTNANGCNCNANGATCANTTNAACCCA
ANANGAGGAGGTGNNANGANCTNANATCATNCCNGNAACANAANNNAACTTTNTTTAAAA
AAA
Sequence=6054;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGTCAAGGCCTGAGGGGCGCATTGTCAATAA
AGCACAGCTGGCTAAAAAAAAAAAAAAAAAAAAAAAAAANGTACCACGAAAAATCAATGTCNN
CCCAACACCTTACAGATTACTCAAAGACTGTCCTGGTTTCNTGTTTACCCCTCAACCANG
GGAGGAACTNCCNCCAAACTTCCCTAGTGAAATCCCCGGAATCTGCCNTTTTCTGGATGC
TTACCAACAAGGAACAAACTCAAAACCNTGCTTCCAA

TABLE 2

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Sequence=6055;DNA;Homo sapiens
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGGGGTAAATGGATTTTGCACAAAACCACAG
GAAAGTCCCGGAGCTNCATCCCGCACTTACAACAGAGTGCCTTTCACAAACCTACGGATT
GGCAGAAAAAGATCCTCATATGGTCAGGTCGCTTCAAAAAGGAAGATGAAATCCCAGAGA
CTGTTTCGTTGGAGATGCTTGATGCTGCAAAGAACAAGATGCGAGTGAAGATCAGCTATC
TAATGATTGCCCTGACGGTGGTAGGATGCATCTTCATGGTTATTGAGGGCAAGAAGGCTG
CCCAAAGACACGAGACTTTAACAAGCTTGAACTTAGAAAAGAAAGCTCGTCTGAAAGAGG
AAGCAGCTATGAAGGCCAAAACAGAGTAGCAGAGGTATTCCCGTGTTGGCTGGATTTTTG
AAAATCCCNGGAATTATGTTTAACGTGCCTGTTTAAAAAAGGATGTGGTATTGAAGGATC
CCATTTCATAAAAGTATGGATTTGCCC
Sequence=6056;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACTGCTTTTGTTGTATCCCACCGGTATGTTCCCAT
TATCATTTATTTCAATAAATATTTCAATTTCCTTCTTAATCTCTTCATTGACCTACGGGT
CATCTGGGAGCATTTCCATGTAGTTGTATAACTTCCAAAACTCCTCTTGCTATTAATTTC
TAGTTTTATTCCATTGTGGCCAGAGAAGATGCTTTATTCTATTGTGGTCAGAGAAGATAC
TTCATATTATTTCAGGTTTTTTTTAAATGTTTTAAGATTTGTTCTGTGGCCTAACATTAT
GGTTTGTCCTTGAGAATGATCATGTTCTGAGAAAGAGAATGTGTATTCTGCAGCTCTTGA
ATGAAATGTCCAGTAAATATCTATTAGAACCTTTTGGTCAATAGTGAATATTTAAGTCTA
ATGTTTCTTTGCTGATTTTTCCCTGGGAAGATCGATCAAATTCTGAAAGTGGGATGTTAA
AGTCTCTAGCTTTTATTGGATTGGGGCCAGTCTATCTCTTTAGCTCTAATAATATTNCCT
TTATATATCTGGGGGCCTCAGGGGTGGGGTGCCTATATATTTAAAATTGGTNATATTCCT
CTTGGATAAATNGACCC
Sequence=6057;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACGAGGGCCATAGCTAGCAAGATCCTCCAAACATG
AGGTAGAACTTGGTGCCTCCTGCCTCAGAGCTTCTGGAAGCCTTGGGGAAGGCAAGCGTG
TTCCTGGGCAGAAGAGGAGCAGGAAGCACTGGATCTGCTGAATCTTCAGTTTTCTGTCTG
AGGCTGGCTTGAGGCGAGGGATGCGGAAGAATGTTCTCCAAGGGGGTCATTCACTCAAGG
CACCATCCCGTGCACCCGGCTCCCGCTCCTGCTCCCGCCCTCCCCGCGTACCTGCCCGGG
CGGCCGCTCGAAAGGG
Sequence=6058;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACACTCTGAATTATAACTAAACAACTACATGTTAC
TGACAAATTTGTGATTCTTTGAGTCTAAACAACACAGAAACTAGAAGATCCCTTTCCTAG
ATTTATATACTTGATTTTCTTATAAAAATAACTTCAGTTATTATGTCAATATTTACCCGC
GTACCTGCCCGGGCGGCCGCTCGAAAGGG
Sequence=6059;DNA;Homo sapiens
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTNGTCNCGGCCGACGTACNC
NGGTGTCATTGTTTACTTGTCCTGTCACTGGATCTGGGCTAAAGTCCTCCACCACCACTC
TGGACCTAAGACCTGGGGTTAAGTGTGGGTTGTGCATCCCCAATCCAGATAATAAAGACT
TTGTAAAACATGAATAAAACACATTTTAT
Sequence=6060;DNA;Homo sapiens
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTGCANATACACCGAAACGG
CTNGTAAAACAAAGGACTTTGTTNTCTGAGCTATTATGTAACACCTTTTCATTCACCTCA
CCATAAGGAATTTCCTGCTTCCCATACAATTAAGAGAAAATAATTACTAAGAGGATTATG
ATACCTCGTGACCAAGCCTCCTGAGTATAATACTCTTAGTTATGAGTTGTGCAGATAAAT
ATATATTTAAAATTTATTTTTCAGAACAATGTTATGCTTTATATAAGTGAATTGTTTTAT
GTCTGTAACTAAAACCAAGATTGCAGCAGCTCAACACACAGAAGTTAAATATAATTCAGT
TTTGTAACCTCGCCTTCGGCTTTTTGTTTGNTGGCTCTTTAAAACAACAAAAAAAATTAT
GGGATAATGAATGCCTGGNCATGTTCATTCCTGCCTGGCCTGGAATATT
Sequence=6061;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTGCTCTTTTAGCTAGAGTGTATGTGAAAAT
AAAGAAATACATCATTGTATTCACAACCATGTGTCTTCATTNATAACTTTATGCTTAAAA
AATTTTTAANTTCNAANGGTNTAAAGTTTCATTTGGATATTNNATCNCTCTNNAATGCCA
NTANAAAGGGNTTGNGGCCANGAAAAATTCTTACTTCCATNGTGNACAATTCTTGCCCAC
CAAGTGTNCTTATTTTTTGAAAGACCTTTTCTCCTTTCCTAAAATTGGGNCCAAATTGAT
NTTTGNTCTCTTTAACCCCAAGGGNATTTNTAAATTTCTTATTAGGNAAATTTTGGGTTC

TABLE 2
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TCCNTCCAAAACTTCTTGNCNTTATTTTTCCTTNCCCAGATNTTTCCCAGNCAATTAAAA
ACNGGTTCNCCTTTTAAAGGAACNCNANTTCNTTGGNTGTTCAAAGGGGGNGGTTTTCCA
ACAAAAAAAAA

Sequence=6062;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAGTTGGGCGAGACCTAAAATTCCCTGGGCA
CAGGTTGCACCTGGGTGTGAGCACTTAATCACTCAACGCTTTGTTTTCTTACACTTCGAA
AATCAAGGGAAAGAGTAGTACGCGGGATGTATATTTCTAACGTAAAAAACATAATTTTTT
TCTTTTCAAGATTTTTTCTTAAAAAGATGANAGAAACATATTTTTTCAGGAAAAACAAAC
TTTAAAAAAAAAGAGGAGAAATAAAACCTTTTCTCCCCTTTCCCCATCCTCTATCTATCC
CTCTTTCCCAGGAACAAATCAAAAGGTGGATTATCTTCTGAACAATGGAAACTGCCANGT
TCAGAATGATGTCTTTTTCTCAATGCAGTGAGTTATAGATTCTCTAGTTTTCTCCCTAGG
GATGGGAAGGGGGCATTGAGGCAAGCCTGGGAGAGGAGCCCGGGGAGCAAGGGTCATTGA
ACTTTTTTCTTTAGTGAAGGAGGAATACAATCAAGGGTTTTGTATTCAAAATGGTTGGGC
CAATATTTTGGGAATGGGGACATTGGNNGGGGTTAAGAGGATTTTAGGTTTAAAAACCAA
AACAAAAAGGAATTGNTCCAAATTTTTAACCTTNGGNCNGGGANCCANGCNTAANGGCCN
AATTCNCANCANNACTGGGCGGNCCGTTNCCTAAGNGGATCCCGNCCTCGGNACCCAAAC
CTTGGGGGNAANCAAGGGGCANTATTTGCCNCCCTGGNGTGAAAANGGGNANCCCCNNAN
AANTTCCCCCCCCCCCCCCCC

Sequence=6063;DNA;Homo sapiens

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ATTTATTGAAAAAGAAACTACAGTTGACCCTTGAACAACACAGATTTGAACTGCGCTGGT
CCACTTATATGTGGATTTTTTTTCTAACCAAAAGAGGATTGAAAATACAGTATTCTCAGG
ATGCAAAATCTGCATATACTAAGGGCTGACTTTTCACATACATGGGCTCTGCAAGGACTT
GCATATGCACTGATTTGGGTTTACACGGGGGTGATGATTTGGATATAGGCAGGTGGTCCT
GAAACCGAATTCCCGAGCATGCTGAGGGATGACTGTATATGTGAATAAGACTTAAATTAT
ATTTCCAAACTTGGGATGGAATCAAACATTTTAGTAACAATTCTGTTGATTACACTTCTA
TTTTTAATCTTGTAGGACTGNATTTATTTTTTATTTTTGNGTTTGAATATGTGTGTGTGT
ATGTGTGNTGGTTTGGGGAAACAATTATAAAAGATTTGTGAATTATTTTGGATGTATGCT
ATTNCCAAANACTCCTGTTTCCCTTCTTTTTTTTTTTTTTTAAGGTCTTCCTTGAATTGGG
CAATCATAATTTACAGANAATTGGTTACTATANCTTTGAATACCTTATAGGGTACCCTGG
TTATTATTTTNAAAAGCATGCCTAATTTAACATTTTACCATATGCCCTTTATTTTTNAAA
AATNGGGTAAANTGGNTTTTAANNNTAAGCNTTAAATTGAN

Sequence=6064;DNA;Homo sapiens

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTCTTTT
TTTTTTTTTTTTTTTTTTTAANACCATAATTATTTTATTAACTAAATTACAGCTGCTTTGA
ATAAAAACTTAACTAACAATCACGTAAGGGTNTNATAGGTGACAACCAGTTACTTTTCTT
GGTT

Sequence=6065;DNA;Homo sapiens

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC
TTTTNTTTNTTTTTTTANTTNATTTTAACCTTTATTNNNTANTGNTNTTTAAATTTTGNNAA
GAAAAATTCATTTTTTCNAGAGNGGGCAANAAATNTTAANNNAAAAAAGNNNNTATGNAA
NATGNAAACAGAGAAAACTTTCTGTTTTGATGTNTTTTGGGTNANACAANANANTANGAA
NTTTNTAANCGNTTNANNAAAATNTTNNNNNGCNTNNCNCCNAAAAAAAANAATCCTATA
TNTTTATAAAACNGNGTTCTGCNCCNNCAATTGGGTTGGNGGAGNGGTAAATATNCAAGG
ANNATTTTTNTAAAAAACTGTTNTNANAAGANCAAATTTNGANGTTTTAAANCNCNGAAA
CATNANCCTANTTTAAAAANTNTTTTTTNTTTTAAAAAAAAAAAAAGAAGCTTTTCCNNG
GGTAAAAAATTTTNAAAAACNCCGNAAAATTTTTTTTTTGNAAAAAAAAAAATTAAAAAAA
TTTT

Sequence=6066;DNA;Homo sapiens

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGGTTTTTGTTTAATAGAACAAATAATCAG
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GGTTGTAAAACCCATTTTAAGTGTTCATGTAATGTGGTAAGTTTAAAAAGTGAAGTGAGC
TGTTTTACTACAATGAATTCGTTTGACTCAAAGATTAAAATGCCCCTCCCCCTATGTGTA
TCTCTTATGGCCTGTAATAATTGAAAGCAATGTTTTTGCAGTTTATATAATGCAATTTTT
AATCTGTGTTCAAAAATGGAGTTCATATGGGCTTAACACATGAAATGGGTGGCACAGATC

TABLE 2
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CACTTGCAGAACCCAAAGATACACAATCAGTTTTGAAATGCAACTTAAGCCATTAATTGT
TGGTGTGAATTTAAAATTTTCTAGTGTTTGTATGGTGGGTATGCTGCCTAAANAGCAAAG
CATCCTCTGCACAAAANGAAAATTACTGTAGTGGCTTTCGATTTTAATTAGAATTTTCTC
CCTGGGNGTTTCTTTATAGACCTAAAGCAAAANTC
Sequence=6067;DNA;Homo sapiens
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGGGAAAAACTTTTTC
CTTCCCTACAGGGGTCAGGGCAACATAAGTATTAAGGTCATATGGCTTGCTGGCCTGTAA
ATAACTTGTAAATAATTAAGTTCTTTGTCTCTGAACCATTAATCTTACGTCTCCTACCAT
CCATAAAACTATGACAAAATGATCAACCTGTTATCTTCCANGAAGGGTGAAAGATCAGAC
CCCTAATAATTTGACTTTTAATCAAGTACTTTTATCTTTTTGTTCTCTCCCATTTATTTT
TTAAAGATTGTTTTCCATGAGCCATAATTTTGCCCACCCCACCCCAACCAGGTTACTTAA
TTTCTGGACTTCATTTTTCTCCTCTGTATGATGACAATAATAATAGTATTGAAACTGCCC
TTGCAAATATTATAACAATGAGAAAATTATCACAATGAAAGAGATGTGACCTAACCAACT
CTATCTTATCTTTAACCTCCAAGCCTGGTCATTCTTGGTTTTTTCACCAAACTCATTTTG
GGAGGAATTTAANTTTTGTCCTGCCCGGGCGGCCG
Sequence=6068;DNA;Homo sapiens
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CTCAACTTGGCAGGATATGAAATTCTTGGTTGGAATGTCTTTCCTTTGAGAATGCTGAAA
ATAGACCCTCAATCTCTTCTGGCTTGTAAGGTTTCTGCTGAAAAGTCCACTGTTAGCCTG
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TTAATGCTNGCCTTAAACAATCTGNTGCCTATATGCCCTAATGATGTTCNTTTTGTGTAA
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ACAAAAGTTTTATTCTATTATTCCCCTCAAATTTNTTTCCCAAAATTGAATACCTTTTTC
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ATTTNTTAAAAACTTTNTTCATTTTTTAAAAATAATCTTTACTTTTANCCTACCTAANGT
TTAAAA
Sequence=6069;DNA;Homo sapiens
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CACAAATTCTGCTGAGTCCCCGTCACAGACTACTTCTGAAGGTCACCAGTGAGGGCCTAA
ACAAGAGTCCACTTCTTGTTAGTATAATAACTTTTTATTTGACATCTACAAGATTTTGGC
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CTCTGCAACCTGATAGGATTTGGCTAC
Sequence=6070;DNA;Homo sapiens
AGCGGCCGCCCGGGCAGGTACTTAATACCCATTATATCTCCCANTCAGCTCCCGACATCT
GGCACAAACTCTAAAAGCTAAAGAAGGCCCTCANCCCCACAACGAGACCTTCTCAACCTG
GTTTTCAAAGTCTTCAATAATAGGGATGAGCAGGAAAAAATAAATAAGGCCCAATGAGAT
TGTGCCAAATACCAAGCTACTAGCCATGGCTATTTGCCAACCTGGCAATAGCACCCAAGG
GCACAAAGGACCCGATAGCAAGTCTTCCTCCTGCTTTAAGAGTTGACAAAGAGATGTGGT
TATG
Sequence=6071;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCCGAGGTNCAACTTAATTTGGTTAAATCAGGCTAAAGCGAA
GGACTTACACTCCTTGATCAAGGGAAGAGTTTTCTTGTTTTCTCTTTCTCCTGCTAGATA
TGACCAGGTNTGCACATGTTTACTTGACACTTGAAGGGAACTGNCCTTAAGGTGAAACCT
TTGACANGAAGAGCANAAGAGGGAAGGAAAGACATG
Sequence=6072;DNA;Homo sapiens
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Sequence=6073;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAAAACNTGCAGTCACATTTTTCACAAATTA
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TABLE 2

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TCTTAGAATNAATCAGTATATTTTTAATAAATCAAGATTTTCTTCATAAACCAATTGTAG
GGGTGTAGGTAGGTAGACCAGNTGATGGGNAACTGGTAAGTCATCCTGGGGAAAAAGAAA
TACGTTAGGTCTTTATNCATTGCATATAATAATATAAATTCAATGCAAAATCATGGCTAT
TGAAAATATCNAACTATAGAAAAAGGTAAACACACTTGATTTATTATTTCGAGTTTCTGA
ATGGGTNAAGACTCTCTAAGCTTAAAAACAATTGAAAAAGGTGGTAAGTTTTATTAACTA
CATAAAAAGCAAAAAGCCCATATNGCCAATATAAAAAACAGTGANGTAAAAAAAAAAGCC
ACTTGGTCCCAGAAAGGAGCNTTACCCCCTNAATTTTTAAAAAGGGGTATTATNTTNNAA
GTNAGAATCCCAAGNCCTGAATGTTTTGGGAA

Sequence=6074;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACATTCTCCACAGATCATATTAAGGAGTTTGTAGG
TGAAGTTTAATCTGTGCATAGTGGGTAGAGACATGAATAGGGTCAAAGGGGAGGAAAAAG
GAAAAAAACAAAACAAAAACAGTCACAGGAAAATAAAAATACACCACAGGTTACCAGAAC
CTTCAGATTTAAAATAAAAAGAAAGAAAAAGCAGAAGCAGTGAGCATCGACATCAACTGT
ACCTGCCCGGGCGGCCCGCTCGAAAGGG

Sequence=6075;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGNACTTTNTTTTTTTTTTTTTTTTTTTNTTTTTCCGC
TATTTCTCTTTTCTTCTTTTCATTCTCTAATTGTGCCCTTAAAAGGAATTGCAATTGCTG
TTACAAATTAATACACAAAAATATTATTCATGTGATGGAATACTACTCTGCCATAAAAAG
TAACAAAATAATGTNTTTTGCAGCAACTTGGATGAAGCTGGAGGCCATGATTNTAAGTGA
AGTAACTCAAAACATACAAATGCCACCCGCGTAC

Sequence=6076;DNA;Homo sapiens

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAGTAAATACTAAGTTTTCCCCCAGGTTCTAA
GTTTTCTGTAATGCATCATTTTACTTTTACCATTAAAAAATGTTTTATTGTTAAGCTGCT
CTATTTCTGAAAAACCCTCTTACGATCATACACATAGAAAATATAAAAGAATTGACAAAA
TAACTCCTGGAACCAATAAGCAATTATAGCAAAGTTGTAGCATACAAGGTTAATATACAA
AGGTCCAGTGGCTTTCCTATATATCAGTAATGAACAAAGAGACATTTGAAATTAAAAACAT
ATTGCTGTTTACATTAGCATCAAAATAAATGAAATATTTAGCTATAAATCTATCAAAATA
TGTATAAGGTCTATATGAAGAGCAAAAACTCTGATGAAAGGTATCAAAGAAGAACTAAAT
AAATGAAGAGATAATCCATGTTCATGAAGAGGAGAACTCAATATTGTCAAGATGTCAGTG
CGTCCCAGCTTGTTCTAATGCAATTCCAATCAAAATCCCAGGAAGTTATTTTGTGGATAT
CAACAAAAGTAATTTGAAACTTCCTATGAAAAAACAAACGACTCAGAATAGCAAACCCAA
TATCGAAGGGAAAGAATAGAGCCAGGAGGACTGAAATCACTTGAGTTCAAGACTTACTAT
GAAGCCNCAGTGATCAAGACAATGTGGTTTTGGNCCAAAAAAAA

Sequence=6077;DNA;Homo sapiens

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TTATGATTGGTCTCAGAGGTAACAATGAAATACTCATAATTTTGTCTGTGGAACTCTGGC
AGAATTATGTTACACATTTGGCGAAGTTGTCTCTTGTAATTTATATTTTAAATGAAAAAG
TATTTTAGAGCTTTTAATGAAGGGGAAGAGTATAAACTTTCTTTCATATTCACTCTGTAG
TTACAGACCGTCTCATAAATCAAGATTGTGCATTATTAGAGTTCTCAGAGACAGGATACT
TCCATATGGACCCCTGTTCATTTTTCTTATTTACTAGATATTTTGCTAAATTTAGCACAC
TAGCAATTAAGAAGTTTAAAAAAAGAAGAAACGTTATAGGAAAGGGAAACTG

Sequence=6078;DNA;Homo sapiens

GATGGATATCTTGCAGAAATTTCCGCCCCCCTTTTTAAAGCCCNGGTTTGGGGGGTTTCC
GCCGGGCCCGAAGGTACCAGNNGGGTTCCCTTTTTTTTNAAAAANGNTTNGGNAACTTTTT
TAAAAANTTNNANCCNTGGGNTTTTTNAACTTNCCCCTNGGTTTTTTTTAAAAAAATTTT
TNNAAAAAAAANNCCCCCCCCCNAAAAAAANNNNNNCCCNNNTTTTTNTNNNNNNNNNCN
NNNNNAAAGGGCCCAAAAAAAAAAAAAAAAATGGGGTNCCCCCCCANCCCNNCCNTNAAA
AAAAGGGGGGGGGG

Sequence=6079;DNA;Homo sapiens

NCCCTTAGCGTGGTCGCGGCCGAGGNACCAGGGTNANNAAGCATGTGGTTCATCCTTTGG
AAATGGTAGTAGGAAACCATACAGTCTTTTGGCATTTNGAGCTACATAAAGGAACTTGNA
GTTTGTTTTNCCAGAAAGACNGTGGCAAGCAAGCNTGANATGGAAAGGTGAGTCTTTTAN
TATCCGNGGGAGAGGGCATTGCTTTGGCTTTTTCC

Sequence=6080;DNA;Homo sapiens

TABLE 2
941/3461

CGGCCGAGGTACGCGGGGACTGGAGACACTGANTAAGCAGGGGCCCTTAAGAGTCTTGTT
TGCCAAACAGATTTGCAGATCAAGGAGACCCANNAATTTCAAAGAAGCGCTATTANAGGT
NTCTTGAGATCCTTTCACTANCTACATTCCTCANGGTAAGAAGGAAAGANTGGCTTTCC
Sequence=6081;DNA;Homo sapiens
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TATTTTTATTTTGATACAAGTCTTTCAGGTCTGTCTTAAAGTCATAGGATGCTAAGGGCT
AAAAAGGCCCAGAGAGAGCAGTAAGTTGCCCAAATTTGCCCAACTAGAGAGGGGCAGAAT
TCAAATGAGAACCCGGGTTTCTGATGCCAAGCTGCCTCCTCCCGCGTACCTGCCCGGGCG
GCCGCTCGAAAGGG
Sequence=6082;DNA;Homo sapiens
CCCTTTCGAGCGGCCGCCCGGGCAGGTACACCTGACTCGACCTTNACCAGATAGAGAGCT
GGTCATTAAGTGTGAACAAGCTGACTTGAATGTTTCANGACAGCTCCCTCCTCTGTAAAA
TGGGAATNATAACACTATTCTTAGGGAGA
Sequence=6083;DNA;Homo sapiens
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TTTGGTGNTNCCCATTTNGGCTTAATTTTTCCCCCTTTTCTTTNCTANTAAAATACTTTT
CAAAAAATTTATTAATAAGGTNTAATTGGCAATATGGAGNTATNCCCNCGTAATNGCCAA
TTNATTCANCACTCNNTACNTTCANCNTNTTTTAATTCCTTCTANGGCCCNTTTCTTNCA
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Sequence=6084;DNA;Homo sapiens
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TGGCTCCCTACCAACTTGAACAAGGGAGGAGTCTGTGCAGTTTCTGACACTTGTTGTTGA
ACATGGCTAAATACAATGGGGTATCGCTGAGACTAAGTTGTAGAAATTAACAAATGTGCT
GCTTGGTTAAAANTGGCTACACTCATCTGACTCATTCTTAATTCTATTTAAGTTGGGTTG
GAATCTTGCCTAAGGTGCGTANTCCAACTCTTGGGAATTCCCCTCCTAATAAGTCATACC
TAGTAGTCATACCTCCCTGGGGGTAGTGGTANTCTCTTAAANCCTTTAAAGGTTTGCATT
NNANCNAGCCNNTAAAATANNGGAATGGGCTTNTNTTTGCTTGGAATACNAAAACNTNAA
ANAAATGGTGTTCATTNAGGAGAAAATTCTTACCCCCTGGAAGGATAAAAANCCCCAAAT
GGGGGNNACTGNAAAATAACNCCTAATGCCTTTAANAAATTNGGCCNCCCTTTNCCNCNA
GNGAACCCCNNTTAANCCNCGGGGGGCTTAAANNCCCATNANCNCCACCTGNAATTTTTA
ANGGAAAAAAAATTANTNCCNTTTTAAAAAAAANNTTAAAACCCNTTTTTAAAA
Sequence=6085;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACTCGGGGANAGNATTCTAATCCAANCAAGGNGNC
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AAACANCTTTATTTTNTCTAGGACCCCTGGGAACTTTT
Sequence=6086;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCCCTCACAGCTGCCCTGTGAGGTGGGT
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AAACCGATGGAGGTTGGCCAGACTTCATGAGCCACACTCTGAATATTCCNTTTGAGGCAC
AAACAACAGAATCAANAAGGAGGCCACGCGCGGGGGCTNACACCTGCAATCCCAACACTT
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NAGCCTTANCCCCAAANATTGGGTATAAAACCCCCCATTTTTNTTACTTAAAAAAA
Sequence=6087;DNA;Homo sapiens
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GCCCATAACTCAGCCACTGGCCTCAATAGGACCACAGTCACGATGATCACAGTCTCTGGA
AGTGCTCCTGTCCTCTCANCTGTGGCCACCGTCGGCATCACGATTGGAGTGCTGGCCAGG
GTNGGCTCTGATATANCAGCCCTGGTGTATTTTCGATATTTCAGGAAGACTGGCAGATTG
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TABLE 2

942/3461

AAAACAAGGTTCTGCTCTGCTTCCTGAAAGCCCTATATTGCCTGGGANATGGACCAACCT
CAAATGGNAAAATTTTAAAAGGGAAAAACCCCTTCATGGCCTTGAGGGTGNTGTGCCCAC
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GAGAAAAATTGAACGANTTTCACAACTATTGGNACAGCTTTTTNCCCAAAGNATNTTNCA
AACAAAGAANTCCTTTANTNAATGGANANTGGGGTTTTTTACCCCCCT

Sequence=6088;DNA;Homo sapiens
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CAGCTCTGCTGAGGAGTACTTTTTTTTTTTTTTTTTTTTGACAGAGTCTCACTCTGTCA
CCTAGGCTGGAGTGCAGTAGTGTGATCTTGGCTCACTGCAACCTCCACCTCCTGGGGTTC
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CTGGCTAATTTTTGTATTTTCTAATANAGACGGGGTTTCACCATGTTGGCCAAGGCTAAG
TCTCAAACTCCTGACATCAGGTGATCCGCCCTCCTTGGCCTCCCAAAGTGCTGGGATTAC
AGGTGTGAGCCACTGCGCCCAGCCTACAGCTCATTTCTTTTTATCTCTGCATAATATCCC
ATTGGATGAATGTACCTGCC

Sequence=6089;DNA;Homo sapiens
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AAGGTGGTCTCAGCCAATTGCAGCAGCTGTTCCCTGTCAGAGGGGCTAGAGGTTTGGTGA
GAGCAGTGGATGAGGTGCAGTGGTGTGTTTGTTCACTAGAAGCAAGTGGGAGAAAGCTTT
GCCTCTTTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence=6090;DNA;Homo sapiens
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GCACAAGATCATGGCCACTAACTACAGTGCCAACCAGTATGAAAAGACTTTCTCATCCAA
GTATCTGCAGAACTGGTCTCCCACTAAGCCAACAAAAGAGAGCATCTCTTCTCATGAAGG
CTACACTCAAATTATTGCCAACGATCGTGGTCATCTACTGCCTTCTGTGCCCCGTTCCAA
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TCGGGTGACCCTGACCTCCCGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence=6091;DNA;Homo sapiens
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CTTTATTGTTAAGTATCTTTATGTAGCTAATAAACTATCACATTTAATCTGGCACCTGCC
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GCTTCTTTATCTTTGGTTTACAGGACCAAAAAAATTTGGGGAAAAAACACCAATCCTCTT
TNACTTTACCTGAAATGGTCTTGACAAAAAAAGTCNTTTCTGGGGGTCAAAAAACATTTG
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ATTTCCNAGAATCTTTTTGGG

Sequence=6092;DNA;Homo sapiens
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TCAACCTANCNTGGNTTCTACTGGGTAAACNTTCCCATGGCCNAAGGAAAAACAAGCCNG
ANTTGANTGACTGGGGGTGGGGTGCAGGCAATGAANANAGGNCATAAGGGTGTATAAANT
AAGGGGGC

Sequence=6093;DNA;Homo sapiens
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TGAANNTTAAATTGGACTTNTTANAACACACATACNCNGGAAAACAACCATAAATATAAN
GANAAATGCNGAAAAATGGAAAATGAGATGACTCCAGGGATAAGGTATAATAATAATTTC
ATGTTATAANAAATAAAAAGTGAGCCACTCTGACAGTCATTTTGGTCAATGAGGGGAAAG
TGACCTTTATTAAAATTNACATTTTNCATTACATTNAANTCAGATTAAATTGCTTGGGAA
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TABLE 2

943/3461

ATGTAAAAGTTAAAGATATTAATGATAATCCACCTACATGTCCGTCACCAGTAACCGTAT
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CATTCNTTNAAAAA

Sequence=6095;DNA;Homo sapiens

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AGGAGATTCCTTGCCACTTCTGTGGGGAAAACA

Sequence=6096;DNA;Homo sapiens

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AATCCATTAGAAAACCATCAAAGGGAAATCCTAAACCTAAAAACTATAATAAAAATTAAG
AACTCAAAAGATAGTCTTAATGGGAGATTAGTGAAAACAGAACAGAGGATTCTTAAAATG
GAAGACTGGTTACTAGAAAGCATCCAAATGAATACACAAAAAAAAAAAAAAAAAAAAGA
ATGGAAACAGAATAGAGTGCAAAAGACATATGTAATCCAGTGGAAAGGCCTAAAAAAAAA
GTATAGAGTCCCCTTATGAGAATGGAAGGCCAAGATGGATGGATCACCTGAGGTCAGGAG
TTCAAGACCAGCCTGGCCAACAGCTGAAACTCTGTCTTTTATTAAAAAATCCC

Sequence=6097;DNA;Homo sapiens

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AGTAGAAAGAATGAGGAAAATAAGTCTTTTGTAGCTGTATGGCGATTGAAGAGGAGATAA
AACAAACTCTCCAGCTTTTCAGGTTGGGTGACTTGCAGCGCCATCGTCTGACAAAGCCGC
CAAAATCTTTCAATGTCCCTAGGAATAAAGTTGCCCTGAGTAGGGCCACTCAGGATGACG
CCAGATGATATCCCTTATTATAGTTTTAGGGGAANCTCTTCCTACCTTCGCCAGTCCTGC
AGTGAAAAAATGTACCTCGGCCGCGACCACGCTAAGGGCGAATT

Sequence=6098;DNA;Homo sapiens

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GAACAAATGGAGAAATTTTCCATGANGCCGAAGAAGCCTACTTGCTTGCAATACAAGCAA
ATAAACTCTNCCAAANAGGACCAATTTTAATTTCATNGGGACCCTTTNGGGAACNACTTT
TCAANNAGTATTAACNTTCTTTCAATGGAAAACCTTTTGGGTTCCCCAN

Sequence=6099;DNA;Homo sapiens

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GGGCCCCACCTNCTCNCCCTAAGGTGAAGCNCNTTTGAAGCCCAGTGGGNGCCTAAATGC
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AAACCCTTAAAAACCCNATTTTTAAAA

Sequence=6100;DNA;Homo sapiens

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TABLE 2

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GGAACACACACATTCGGNGTGCTCTGTTGCATGTGAGCTTGNGGGTTAGAGGAACAAATN
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GGGAGGACAGATTCTTCCATTTNTNATCATTTTTACATATTGAAGGAAGAGGGGGGGTTC
AAAAAAAAAG

Sequence=6101;DNA;Homo sapiens
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TGAGGAGCGTGGTGTTTATTTATTTATTTTTTTTTTTCGNTTTTGGGTATTTTGTTTTTTT
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Sequence=6102;DNA;Homo sapiens
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ANAAAACATAGCCCCANACTCTTCTTTCATTTGTCTNATACCGATTCTCTTTTTCTTTTT
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Sequence=6103;DNA;Homo sapiens
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Sequence=6104;DNA;Homo sapiens
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CTCCACGGTGAGGATCCTGCCCTTGGTGGCACGAGCGCTGTCGAGAATGAGTTTTCTGTC
CAGGGGCTTGATGGTGAAGGGGTCCAGCACGCGGATGTTGATCTTTTCTTTCTTCAGCAA
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AGAGGCTTAATTTCTTTATCTATACATGGGGTCAATAACGTTCTCGTGTTGAG

Sequence=6105;DNA;Homo sapiens
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Sequence=6106;DNA;Homo sapiens
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Sequence=6107;DNA;Homo sapiens
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TGGAGCTGGAGAGAGGAGTGGGCAGCAGTGTAGATAAACAGGCCTGGCCGTGTGTGGATG
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ATATGTTTGGAGATTTTCATAATCAAATGTGAAAATTTTTTGATTTTCATAATCAAAAAT

TABLE 2

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CAATACAAAATATGAATGTATAACGTAATTCCTCCATCATGACGGTGG
Sequence=6108;DNA;Homo sapiens
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTA
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AAATAATACCTGGACTTTAATTGCACCCATGAATGTGGCTAGGCGAGGAGCTGGAGTGGC
TGTTCTTAATGGAAAAC
Sequence=6109;DNA;Homo sapiens
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TTTACTAAGTGCTTTTTTCTATTAAGATGATCATATGCATTTTTCTTTTTAGTCCACTAAT
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Sequence=6110;DNA;Homo sapiens
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GCACTGAATTCGAGGAACTCTGATTTGGGTTGAACAATTGTTTCCCTCACAATTTCTTCC
ACTTCCTGAGGGAGGCCTTTGCCATATTGAGCAACAATGGAAGCAAATGAGCTAAGCGTC
TGGTCTGATGGAGACATTTGGGCAGCTAAATAAGATCCAACTTCATGAGTTTTATCAGGA
ACTACATTGGAGGAATAAAAATCCTTCCTGTCTGGAACTATGGTGTCCATCGTAGCCCAT
GGTGACCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAACACACTGGCGG

TABLE 2

946/3461

CCG
Sequence=6115;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGCCTCGCTGATCCGTTCCGTGGTCGCCCTG
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AGTGATGTAAAGAAAGAGGAGAAAAAGGAGAAAAAGTAAAACATGTATTAAATAGCTTTT
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CCACAATGGTTTATTAAAGGAATGTATGGCCCACATCAACCTAGCAAGGATTCTACTGGT
AAACCTTCCTATGGTCAAAGGAAAAACAAGCAGGAGTTGAGTGGCTGGGGTGGGGTGCAG
GCAATGGAGAGAGGGCAGAAGGGTGTANAAGCTGAAGGGGTCTAGAAGCTTACTCCTGAG
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AAGGCTGGGAATGCACTCTTTTTAAACTGNTTCGAGAACACCCCAGANACNAGGGGAGGG
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TGAAANCCNCTTCTTGGGCCCATGCTTAAANTTTTCTTTTNTTTTAAACCCTAAA
Sequence=6116;DNA;Homo sapiens
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GNTCCGCCACCCNCCGCAGTNCTCTTGAATACAAGTTNCTGATACCACTGCACTGGGCTG
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Sequence=6117;DNA;Homo sapiens
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CTTGATGATCTGGCTTTTCTCCTTCCCATTTCCTCCTCATAAATCACTCTCCCATGCACT
ATTTCTATGTCTTGGCATTTTTCTTTCATGATATTTATGTCATAGAGCCTTTTCTCATAG
GTCACTCCTTTACTTTCTTTT
Sequence=6118;DNA;Homo sapiens
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ACTTTTAAACCATATNCAAGTCTTCTAGGGTTGGTAGAAAGGGGAAAAGGAAGGGAAGTG
GTCCCCAAGTGAATTCTAAGATCTTGGTTGGGGAAAACTTCTTGCCTCATGACTCTTGTC
CTTTTGAAGTCCCTTTGGACAGCAGCACAAAACATAACAATTTTTATTTTTTAAAACAGA
CCCATTCTTTTTTGATCCCACAGGAAGCTTGTGGGTTGGGTCCGGCCCGTAACCCCCCGG
GATGTNGGGTTTAAGGTGGATTACTGGCTAACTTGAGC
Sequence=6119;DNA;Homo sapiens
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TABLE 2

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TABLE 2
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Sequence=6166;DNA;Homo sapiens
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GGTTTATTAAAGGAATGTATGGCCCACATCAACCTAGCAAGGATTCTACTGGTAAACCTT
GCTATGGCCAAAGGAAAAACAAGCAGGAGTTGAGTGGCTGGGGTGGGGTNCAGGCAATGG
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TABLE 2
953/3461

AAAG
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TCATTCATATAACTNTAAAAAAATCAAATTTATTAATAACTAAGATAGTATCCTTCTTGA
CAGCAATGCATCAAAAACTTAGGCTGAAATTATTTTTAATTTTGCCTTACTTTCCTTTGG
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CTTAGAGTGCTGAGAAGAGTGTGTGGCTCAGACTATGGGTGTAATTCAGTTGACACATGG
TGCATGCCTATAAGGATATTCTGAGAGTGACAAAGTTAAGACAGACATCAGACGTAATTA
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Sequence=6170;DNA;Homo sapiens
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TCCTGAAGATGACCCCCAGAATGCCATTGTCAGCTCTTCTGCAGATGCTTGTCATGCAGA
ACTGCTCAGGACTATAAGCACTACTATGGGGAAACTAATGCCTAACCTGCTTCCAGCTGG
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GCGTGTAATAGGCAAAAGGGCTNTTCGCCAANATAGCATGCTGGATNTCCCGCANCACCG
GANAGAAGTCCTTGCTGGCTAACGAGTTGATCAATAGGAGGAAATTCCGCTGTGCTAAAA
TNTANTCCTGGCCCGTANTCTTTCCTGTACTATACAGCTTTATTTTAACCCCTATGGTGA
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TABLE 2
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GGCCAACATGGTGAAACCCCGTCTNTAATAAAAATGCAAAAATTANCCGGGCGTGGAGGC
ACNCATCTGTAATCTCAGCTATTCAGGAGGCTNAGGAGGCAGGAGAATCACTTGAACCCA
GGANGCGGAGGTTGCANTGAGCTGAAATCACACCACCGCACTNCAACCTGGCAACAAGAN
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GGCNAAANGGATAAAA
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TABLE 2

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CNNNNNNNNNGNGGNNNNNNNNNNNNNNANAAAAAAAAAAAA
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TABLE 2
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TABLE 2
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TABLE 2

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Sequence=6205;DNA;Homo sapiens
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Sequence=6209;DNA;Homo sapiens
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TABLE 2
959/3461

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TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=6244;DNA;Homo sapiens
CCCTTAGCGTGGTCGTNGCCGAGGTACAGGTGCATGCCATGATGCCCTGGAAATTTTTTT
GTATTTTTAGACGGGGATTCACCATATTGGTCAGGCTGGTCTCGAGCTCCTGACCTCAGG
TGATCTGCCCACCTTANCCTNCCAAAGTGCTGGGATTACGGGTGTGAGCCACCGCGCCCA
ACCTCTTTATTCTTTTAATGGAAATACTTTAGAGATCATTATTTCTGTTATTTCTNCAAN
TCTTTTTGTAATATTTACTTAATAATTTTATCANTATTATGGATCAACAACCNAGTAAAC
TGTNCAAGATCCTGGGTC
Sequence=6245;DNA;Homo sapiens
TTTTTTTTTTTTTTTTNTTATTTTTTNTTTTTTGTGTTTACGTACTNCANCTTTTAGGGCG
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NNNNCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTAGAAGTGGACTACACTCATGAGGCC
GTCACCATAAAGTGCACCTTCTNCGCAANCGGATGCCCTTCTGAGCAACCAACATGCCTG
NGGTTTNGCTACGGTGCTCACCAGCCTGAGAACCTGTGCTTGGACG
Sequence=6246;DNA;Homo sapiens
CCCTTAGCGTGGTCGCGGCCGAGGTACATATTTTATTTATATTACAGGTGGGAGAAAAGT
CCAATTGGTCATGGAATTTGATAGACTTTTCCCCAGCCAACTGCTACAGTGTATTATAAT
CCCGACTGCCCCCCTGTGAAAAGAAAAAAAAAATGTCCAAGAGCAAATTTAACATTTTAC
AAACAATAAAGTCCAAACTCCTCTATGCACATATTTATAGCTTATCACTTCATTTTCTGT
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GGG
Sequence=6247;DNA;Homo sapiens

TABLE 2
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CCCTTAGCGTGGTCGCGGCCGAGGTACATTAAAAGGGGAATGGTTAAATAAATCATGGAA
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ANAGTCAATATATTTTGTTTGCAAATGCACTGAAACTATCAAGGAAAGATAAAAAAGGGA
GCTTT

Sequence=6248;DNA;Homo sapiens
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AGTTTTTCAGGCTGTAGAATATAAAATCATCAGACAAAACCTAAAAAGGCAAGATATTAG
ATGTAAGAAATGTCTTGAAATGAATGTGAAGTGAATTGAAAAGAGCCGTGAATAAAGCAA
AAACCACTAGGAATTCAATTTTGTTGGCTATTTCTGACATTCACAAGTAGACGTACCTTG
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Sequence=6249;DNA;Homo sapiens
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AGGCCAGGAGTTTGAGACCAGCCTGCCAACATGGCAAAACCCCCATCTCTACTAAAAAAT
AAAAAAATTAGCCGGGTGTTGTGGCGGGCGCCTGTGATCCCAGCTATTTGGGAGGATGAG
GCATGAGAATTGATTGAATCTGGGAGGCAGAGGTTGCAGTTAGCTGAGATTGTGCCACTG
CAGTCCAGCCTGGGCGACAGAGCGAGACTGTCACAAAAAAAAAAANANNNANNNNNNANNAAA
NGTCCCGGNTAAGANATATATACAATTTTATCTTAATGCAAAAATTANAAATNTGTAACC
AAAGTAGCAATTAAATAAATCTAGCCACTTGTAAATTGAAATAAACCTTTTNTCCTAACC
AGCAGTTTTGAATCAAAGGAAAAATAAAATGTGTGATTCTAAGTTNTTCAAAAAAACCA

Sequence=6250;DNA;Homo sapiens
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Sequence=6251;DNA;Homo sapiens
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GGGAGGGCAAAGGCGAAAAAGCAATTGGACATGATAGCTAGATTTGTTTCAGGAAAACAT
CCTGCTTTCCAAGGATT

Sequence=6252;DNA;Homo sapiens
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AGGATCACTTGAGCCCAGAAGTTCGAGACTAGCCTGGGCAACATGGAGAAGCCCTGTCTC
TACAAAATACAGAGAGAAAAAATCAGCCAGTCATGGTGGCCTACACCTGTAGTCCCAGCA
TTCCGGGAGGCTGAGGTGGGAGGATCACTTGAGCCCAGGGAGGTTGGGGCTGCAGTGAGC
CATGATCACACCACTGCACTCCAGCCAGGTGACATAGCGAGATCCTGTCTAAAAAAATAA
AAAATAAATAATGGAACACAGCAAGTCCTAGGAAGTAGGTTAAAACTAATTCTTTAAAAA
AAAAAAAAAAAGTTGAGCCTGAATTAAATGTNATGTTTCCAAGTGACAGGTATCCACATT
TGCATTGGTTACCAACCCCTTGCCAGTTAACCAGTAGCCCTTTCCTGGCNCTGNGGGCGG
TTT

Sequence=6253;DNA;Homo sapiens
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TCCACATGTAGGGGTGAGGCTATTTCACAGANATAGTGTATCATTTTACTAAAACATTAT
TTATTTTAACTATATTTAGGACTTAAATT

Sequence=6254;DNA;Homo sapiens
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AGTCATTATTACCATGCAGGTGTGTAAGTGCTTCCCATATTTCCGAGTTATTTTCCAAAA
ATTCCGCTGTAAACTTGTTTATTGGAAATTAAAATGCAGGTTTGCCCACAAGAAACCGGT
TTATAAAATGGGAGTGATTGGACCAAAGCCCANTAGAAAGGTCTTTCATTTTCCGNNTGA
AATGGTAAGTAN

Sequence=6255;DNA;Homo sapiens
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AGACAATTACTTGGGGTTTTGTTTCCTTTGTTTACCAGTTTTCAGAATGAGTTGGTACCA

TABLE 2

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TCAGCCCTGGCCCTTAGGCCAGCCCAGTCCACGGGCTCTGAGTGTGGAGGCTGCNTANCA
CCAGGAAGCGGCTCTGCTGAGGTCAAGGGGCCCCAGCACAGTGTGGCNTCCGTTCAGCTT
TTGGTTGGTCCAAGGA
Sequence=6256;DNA;Homo sapiens
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TGAAGTTGACTTACTGAAGAATGGAGAGAGAATTGAAAAAGTGGAGCATTCAGACTTGTC
TTTCAGCAAGGACTGGTCTTTCTATCTCTTGTACATGGTCTTATTCTCCCATCGCACAGT
GCAGCTCCCGTCAGTAGAGCTGTCCCAGAAGCAGGAACTTGCTGTGTGTAATCCAGCTCC
ATTCTTCTGCATAATTACACGGGTCACGATGTATTTAAATGGTTTTCCCAGCTTGGTGAG
TTGGCTTAAAGTTTGTTCTACTACATTTGTGGTCCACTGGTTCACTTTGCTGTGTTGATA
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GCCTTCCGG
Sequence=6257;DNA;Homo sapiens
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TTAGCAGTCATATTGCTGTTGGTGAGAGCAGCAAAAGCCACATATGCCTCCAAGCACTCC
ATTTATTACTTGAATAAGACACAAGATGAATTCAATTCCACCAAGAGCCAAGAGGATAGA
AAACAGAGATACATTCCATTCCACAATGTGCTTGGGTTCAGTGCACTCGGACCATGTGGA
GGTATCCAGAAGGTCAGTGATAGCTCCCCCTGGGCAATACAATACAAGAACAGTGGGTTT
TGTCAAATTGGAACAAGGAAACAGAACCCCAGAAATAAATACATTGGTTAACATCANATT
AGTTCANGTTACTTTTTTGTAAAAAGTTAAAGTANANGGGACTTCTGTATTATGCTAACT
CAAGTANAATTGGAATCTCCNGGGGTCCTTTTTTTTTTTTAAATTGGGTTTAATTTTT
Sequence=6258;DNA;Homo sapiens
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CATCAGAACCAGATCTTGCGGGAACTGTGCCTGCCCGGGCGGCCGCTCGAAAGGG
Sequence=6259;DNA;Homo sapiens
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CCGGCAAGGTCCCAGCATTTGAGGGTGATGATGGATTCTGTGTGTTTGAGAGCAACGCCA
TTGCCTACTATGTGAGCAATGAGGAGCTGCGGGGAAGTACCCAGCACCACCTAGGAAGTA
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CTGTAGATGGAAAGAGACTTACAGACATTTCAAATAAATGCAATATATGGGCCTTGCTTG
AATCCTAATACAAACAATCCAACTACAAAAACAGCCAAACATTTGTGGGACAATTGGGGA
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Sequence=6260;DNA;Homo sapiens
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TTAAAATAAGTTTATTTTCATCANACTTGGTCTCATTCTTTTCATAACTGCAGCAAGAGT
AGTGACTGACCACATAAACTTTTTT
Sequence=6261;DNA;Homo sapiens
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GTTATCTTTATAGCAACACTCATCCTTAACCAACTAGGTACCTNGGCCGCGACCACGCTA
AGGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTGGATCCCGAGCTCGGTACCAAGC
TTGGGCGTAAATCATGNTCATNAGCCTGTTTCCTGGTGGTGAAAATTTGTTNATCCCCGT
TCAACAATTTTCCCACACAAAACAATTACCGAAGCCCCGGGAAAGCCCTTTAAAAAGGTG
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CAACAATTTAAAATTTN

TABLE 2
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Sequence=6262;DNA;Homo sapiens
ANGCNCGAGCGGCCGCCAGTGTNNTGGAGGGGNGCAAAACCCGCCCNNNCGAGCGGCCGC
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GGGGGCNGNGAANGGCAGCAACGACCAAGCGNGGGAAACAGNGGGGGGTNTGAGNAAANT
TTTNTTTGGACCAGGAGNAGNGCCCGGCAAAAANGCCCANGGAGAAGC
Sequence=6263;DNA;Homo sapiens
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TAATNNTNNTTTNTNANNNNNNTTTNNNNGGGGNNAAAAAAAANTTTTNAAAAAAATTTT
AAAAAAANCCTTTTTNAAAAAAANTTTTTTNAAANNNAAATNTTTTTTTTTTNCNNCCCC
AAAAAAAAAANNNANTTTTTTCCCCCCCNATTTTTTTTCCTNAAAAAANAAGGGGNTTTT
TTTTTAAAAAAAAAATNTTTNAANAAANNNNAAACCCCAAAAAAAAAAAAAAATTNCAAA
AANGNTTTGNGGGGGGNTTTTTTTTTTTNAAAAACTTTTAAAAAAAANAAAATTTTTTNA
AAAAAAAATTTTTTTTTTTTTTTTTNAAAAANNNTNAAANCCCNTTTTNAAAAAAAAAAA
ACCNAAAAAAANNTTTTTTTNANCCCCTACCCNNNAAAAAAACCCNTTTTGGGGCAANTT
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CCCCNCNTNAAAATTNNNNAAANTTNTTTTAATNAAAACAAAANTTTTTTTTAAAAAAAA
AAAA
Sequence=6264;DNA;Homo sapiens
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ACTTGAAAGATTTCTAGAACACTTTTTTTGTTTAAGACAGGGTCTTGCTTTGTCACCCAG
GCTGAAGTGCAGTGGCACAACCACGGCTCACTGCAGCCTCATCCTCCTGGGCTCAAGTGA
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Sequence=6266;DNA;Homo sapiens
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TTNTTTTTAAAAANTTTAAAAAAANTTAANNCNTANTTNNTTTTNNNTTTTTTTNTTTGG
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Sequence=6269;DNA;Homo sapiens
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TABLE 2
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ACTCAATGTTTTAATTTATTAATTTGAATTACCCATATGGGCTAGCCCAGTGGGTACCCA
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ATTTGAACCCATAGCTGAGAACCAGAAAATCAGTAAATAAAGCCTCTGAACAGAATAAAT
ACTGGTGTATAATATCAAAGAATCCATGTAAAGATCGTATTTTACTGATAGGAGCTCCTG
TCTGGTAAGTCCTTAGAGTGTGTTGCTCTTTACTATACCAAGATTGGTTTCCAAACTTCA
GTGGATGAGAAGTANCAGATTGGCCTTGTTTATTGCAAGTAAGTTTTTGAGGATTTTCCC
TCACGCTTCAACACGGNGTAAGTAATTGGATCTTTAGTGAGAAGATTGGTGACCTCAAGG
GAAAGCCTAAAATTGGGATTCCAT
Sequence=6270;DNA;Homo sapiens
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ACTTTGTCCATAAGGGGCGTGGCCACTTCACATGATGGCGGGCCTTTAAGAGCACAAAGA
AGTTTAATATGGACAACAACAGGAAAAAGCAAGAAGAAAACAAGTAGGGAAAAACAGCTA
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Sequence=6271;DNA;Homo sapiens
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AAGCTAANCCCTTGTTCTGGGTCAAGCAGNTNGTTTTTAATAAGCATCATTCCTGATCAT
TAGANCAAAGGGATGAATGCTCCTT
Sequence=6273;DNA;Homo sapiens
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AAGACCAAATGAAGAAAACACGTAGTAAGAATTAAAGGATGTTAGTAGGTGGTAGATTGC
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GTCC
Sequence=6276;DNA;Homo sapiens

TABLE 2
968/3461

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Sequence=6277;DNA;Homo sapiens
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CCTGGAGCACTGTCTNCCTGACCAGACACTCCCTATTTTAGAGGAGCTTCACCAGCACAC
AGAGCANCTTGTACAGTGGTCCTTTTCAGAGTTGGACTTCTAGACTCACCTGTTCTCACT
CCCTGTTTTAATT

Sequence=6278;DNA;Homo sapiens
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ATTTGAGGGTTGGTGTAA
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ATTCAAGACTGTATTGGC
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Sequence=6279;DNA;Homo sapiens
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CCTGTCCCCAGATGTCCT
GATGCCCACCATGGCAGGGGAGCCCAATAGACTCCCAGGAACTTCAAGGAGTGTCCAGCAG
TTTCTGGCTATGTGTGAC
AGGGGTGAAACTTCCCAAGGGGCCAAGTACACAGGAAGGACTTTGAACTACCAGAGCCTCC
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ACAACTCCTGGGCACCCTGGTCAGAGACCAACCAGCATATTGGGACCAGATTCCTGACTAC
TCCAGGGTGCAATCCTCA
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TGTACCCCTGAGGTCAAG
CTTGGA
Sequence=6280;DNA;Homo sapiens
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AAAAGGAACAAGTGGAGT
GCAGAAGAAAATCTGTACTGAGAGACTTGGGCCTAGCTTGTCTTCCAGTGAGCCAACCAAG
GCTGGTGCTGTCCCATCC
AGTCCCTCGACGCCAGCACCACCCAGCGCCAAACTTGCCGAGGACTCAGCTCTGCAGGGTG
TGCCCTCTCTGGTGGCAG
GTGGAAGTCCACAGACTCTTCAGCCGGTATCCAGCAGTCACGTGGCTAAAGCTCCCAGTCT
GACCTTCGCTTCCCCCGC
CAGTCCTGTCTGCGCATCAGACAGCACTCTCCATGGGTTAGAGAGCAACTCTCCCCTTTCA
CCACTGTCCGCTAATTAT
AGCTCACCTTTATGGGCTGCAGAGCACCTCTGCCGCAGCCCAGATATCTTTTCAGAGCAGC
GGCAGAGCAAACATAGGC
GCTTTCAGAATACCCTAGTAGTCCTACATAAAATCTGGGTTGCTGGAGATCACTTTTGAAA
ACCAA

TABLE 2
969/3461

Sequence=6281;DNA;Homo sapiens
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GCTCGGCGGCTTCTCCCT
TCGGGAGGTCCGGCTCCCGGCTCTCCGGACCCGCCTGGCGTCCTCGCCTGCGGCGGGGCGG
ACGACAGCGGCGCCCAGG
AATGGCTTCGGCGGGCAGCGGCATGGAGGAGGTGCGCGTGTCGGTGCTGACCCCCTTGAAG
CTGGTCGGGCTGGTGTGC
ATCTTCCTGGCGCTGTGTCTGGACCTGGGGGCGGTGCTGAGCCCGGCCTGGGTCACAGCTG
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GCTCANCAANCGATTGGC
AGATTG
Sequence=6282;DNA;Homo sapiens
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GCAAATAACTGGATTGAA
ATTTATAATTTCGGNNAGCANCNGGGCGGAGAGATTCNGTGAGCCCTGAAATGAGATTATC
TTTCATTGTGTTTTCTTC
TCAAGCAACTATTATTTTGCCATTAACTGGAGACAGAGGCAAAATCAGTCAAGGCTTGGAG
GATTTAAAACGTGTTANT
CCAGTAGGAGAGACATATATCCATGAAGGACTAAAGCTAGCGAATGAACAAATTCAGAAAG
CAGGAGGCTTGAAAACCT
CCAGTATCATAATTGCTCTGNCAGATTGGCAAGTTTGGACGGTC
Sequence=6283;DNA;Homo sapiens
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GACTGGTCACGGGGGGAG
GCTGCCGGCGTGGACCGCGGGAAGGCGGGGCTGGGGCTCGGCGGGAGGCCACCCCCACAGC
CGCCCCGGGAGGAGCGCG
CCCAGCAGCTGCTGGACGCGGTGGAGCAGCGGCAGCGGCAGCTCCTGGACACCATCGCAGC
CTGCGAGGAGATGTTACG
GCAGCTGGGCCGCCGGCGCCCGGAGCCGGCTGGTGGCGGGAACGTCTCANCCAAACCTGGA
GC
Sequence=6284;DNA;Homo sapiens
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GGCTTTAAGGTAGACACTACAGGGAATCTGATCTCAGGGTGATCCTCTCCCTTCCACTTGC
AAAAAGAGAGGAGCAGGT
GGGCCACTGCTCTCTGAGATGTTAACACCCCTCACACTCCACGGGCATGCTTTGTCATTCT
GCACACCGGTGTAGCTGC
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AGCCTGGGGAACATAGCA
AGAGCCTATCTTAAAAAAAAAAAAAAAAGCATTTCAATTATTTTAAATTTTNTAATTACAA
AACAATTCTTTCCTGTCT
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TCAGAACATGTTAAGGTAAGTTCACTGCAGAGATAAACAGGGTGAGGACAGGCCAGTCCTA
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Sequence=6287;DNA;Homo sapiens
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GCTGTTTTAGTCGAATGC
AGACCATCAAGGAAATTCNNGAATATCTATCTCAAAGACTGCGCATTAAAGAGGAAGATAT
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ACA
Sequence=6288;DNA;Homo sapiens
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TABLE 2

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CGGATCACGAGGTCAGGAGATCAGGACCATCCTGGCTAACACGGTGAAGCCCCGTCTCTAC
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ATGCATCTTAAAATTGAT
GGCTTCTTGCAACCACTTTCAACCAGGTGCCTGTCATGATTTAAGTGCTAGCATCAAGGCA
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TGAAA

Sequence=6292;DNA;Homo sapiens

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GCCCTGAGAATGGAGCAT
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ATGGAAACACGGCGTGCATGGTTACCAAGCCACGCTTCCAGGGAAAGGGGTCCGTGCGGGA
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TABLE 2
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TABLE 2
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TABLE 2
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CCTTGCCCCGCCAACGTA
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
981/3461

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TABLE 2

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TABLE 2
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Sequence=6359;DNA;Homo sapiens
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AGCACCTAATCAAATGAA
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Sequence=6360;DNA;Homo sapiens

TABLE 2
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GTACAGACTATTTAGTTGTTTGAGAAAACAGGGGCGTTTCCTAATTTGGTCTTTATCCTGC
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CCCAAGTTAATTTTAGGA
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TTTGCTGTCATATAAAAG
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TABLE 2
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Sequence=6366;DNA;Homo sapiens
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TCAATANGTTTACAAATG
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TACTGACAATTTCATAAA
TATTCAAAANAAAATTTCAAAATTTGNAAACTTAAATTTGCCTCATTTTAACATTTTTGAA
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TABLE 2
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TABLE 2
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TABLE 2

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TABLE 2
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TABLE 2
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TTTAATTTGCGNTTGGGGCCTTTATTGGGTNGGGTTTTNAGGGGGGG>Sequence=1;DNA;Homo sapiens File:PatentID_MPM1999-002P1_File_Novel006_2-Table1-MPM99-002P1_xls Table: notDefined DataBase: notDefined PatentSeqNo:SEQUENCE1 Accno: notDefined GIno: notDefined ImageID: notDefined MDContigID: notDefined MSDBSeqID: notDefined GeneName: notDefined ClusterID: notDefined ClusterTitle: notDefined ConversionID: 1#Sequence=2872;DNA;Homo sapiens File:PatentID_MPM1999-002P2_File_Novel006-6Table1_xls Table: notDefined DataBase: notDefined PatentSeqNo:SEQUENCE1 Accno: notDefined GIno: notDefined ImageID: notDefined MDContigID: notDefined MSDBSeqID: notDefined GeneName: notDefined ClusterID: notDefined ClusterTitle: notDefined ConversionID: 2872#Sequence=7349;DNA;Homo sapiens File:PatentID_MPM1999-002P3_File_Novel006-7Table_1_xls Table: notDefined DataBase: notDefined PatentSeqNo:SEQUENCE1 Accno: notDefined GIno: notDefined ImageID: notDefined MDContigID: notDefined MSDBSeqID: notDefined GeneName: notDefined ClusterID: notDefined ClusterTitle: notDefined ConversionID: 7349#Sequence=10220;DNA;Homo sapiens File:PatentID_MPM1999-002P4_File_Novel006_8Table1_doc Table: notDefined DataBase: notDefined PatentSeqNo:SEQUENCE1 Accno: notDefined GIno: notDefined ImageID: notDefined MDContigID: notDefined MSDBSeqID: notDefined GeneName: notDefined ClusterID: notDefined ClusterTitle: notDefined ConversionID: 10220#Sequence=16618;DNA;Homo sapiens File:PatentID_MPM1999-002P5_File_Novel006_10-Table1-MPM99-002P5_doc Table: notDefined DataBase: notDefined PatentSeqNo:SEQUENCE1 Accno: notDefined GIno: notDefined ImageID: notDefined MDContigID: notDefined MSDBSeqID: notDefined GeneName: notDefined ClusterID: notDefined ClusterTitle: notDefined ConversionID: 16618#Sequence=23016;DNA;Homo sapiens File:PatentID_MPM1999-002P6_File_Table-1_doc Table: notDefined DataBase: notDefined PatentSeqNo:SEQUENCE1 Accno: notDefined GIno: notDefined ImageID: notDefined MDContigID: notDefined MSDBSeqID: notDefined GeneName: notDefined ClusterID: notDefined ClusterTitle: notDefined ConversionID: 23016(seqSampleName:joh0a001a01t2 threadId:1925694 sequenceId:27274195 eventName:VectorCheck)(joh0a001a01t2 threadId:17470779 sequenceId:116035334 eventName:CumulativeQualityCheck)

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TABLE 2
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GGAGGCCCTGCCGGCCC
Sequence=6456;DNA;Homo sapiens
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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Sequence=6489;DNA;Homo sapiens
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TGACAGCGGTTGCCTGGTACATCAACGACATGAAGCGCAAGCAGGAGCATGCAGCGCGCC
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Sequence=6491;DNA;Homo sapiens
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TABLE 2
1011/3461

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CGACACCCGCCTGATGGACATGGGCATGCTACTCCCTGGTCACCGCCGCCGCATCCTGGC
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ACATTTCCTTTTG

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TABLE 2
1012/3461

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Sequence=6500;DNA;Homo sapiens
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TABLE 2
1013/3461

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TABLE 2
1014/3461

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TABLE 2
1015/3461

Sequence=6517;DNA;Homo sapiens
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
1022/3461

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TABLE 2

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Sequence=6566;DNA;Homo sapiens

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Sequence=6568;DNA;Homo sapiens

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Sequence=6569;DNA;Homo sapiens

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TABLE 2
1024/3461

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TABLE 2
1025/3461

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TABLE 2

1026/3461

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Sequence=6585;DNA;Homo sapiens

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Sequence=6589;DNA;Homo sapiens

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TABLE 2
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Sequence=6590;DNA;Homo sapiens
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Sequence=6592;DNA;Homo sapiens
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TABLE 2
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ACCTGAGTTGCCTTCCTAGAGGATCCTAGAGGAAAAAAAAAAATCTTATCCTTCAAATAC
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Sequence=6596;DNA;Homo sapiens
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AAACCCTTAGAGTTAATATGATACACTTGGCTACCTCATTGTTTCATATCAGTCATTCCT
GTCTCTAGCTATAATCGGCTCAGCCAAGGAAGATATATTTATATGGACAATGTCTTTGTG
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Sequence=6601;DNA;Homo sapiens

TABLE 2
1029/3461

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Sequence=6602;DNA;Homo sapiens
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TABLE 2
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Sequence=6607;DNA;Homo sapiens
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Sequence=6613;DNA;Homo sapiens

TABLE 2

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ATC

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TABLE 2
1032/3461

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AAAAGTACAATTTACTA
Sequence=6622;DNA;Homo sapiens
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CATCTATGGAGGAAAACATCAGCGTAGGAGAAAAAGGGAAAGAAACCAACTGGAGTAAAG
GCTCTGTCTTGAGCACTGTGCTGGCTCCTGTACATTCTCCATCTCTTTTTATCTTCATAG
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Sequence=6623;DNA;Homo sapiens
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CACAGCCGAGTAAAGTGCCAGAATAAAATCAGCTCTGTCCACGTGGTACCAGGAATGCTG
CTGAAATGAAGGTAAGTATAGGATTCCACAGGATCTAAGACAGTCCAGGGAACTGGGACC
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GGCTGCCGGGAGGCCTGGATTTGAGATACCAAGCACCACTGATATAAACACTGATGCTCA
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TABLE 2

1033/3461

Sequence=6624;DNA;Homo sapiens
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TAATGACGTTTTGGTCATCGAGACCCACATGTGTGACAGTGGTCCCATAAGGATGCTGCT
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Sequence=6625;DNA;Homo sapiens
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Sequence=6626;DNA;Homo sapiens
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Sequence=6629;DNA;Homo sapiens

TABLE 2
1034/3461

TGAAACCTGGAGCTGAAGTGAATTCTCTTAGAGTATATTTTGAAACTGTACTAGGACTTT
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AGTCTTACAGATGGCTTTTTAATAGTTTAGTCTCTTAACCTAAGGAAGTTTCTGAAGTTC
CGGTCAGAGAGTCTAAAAATTCACATTTTACCTAATAAATGATAATGAGGCTATTTATCT
TGTCTGTCTGGATTTTTTCACTTGACATTTAATGAAATATCCCATATTACCTATAATTTT
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TTCTATTTTTAAGTGTC

Sequence=6630;DNA;Homo sapiens
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CGTGAGGCGTCAGGACGTACATAGGCGCTGCTCAGCATACAGAGACTGTTGCTGATCCTA
ATCCTCATACTCATGCCTGCATACTGTACACCGTTCTACGAAACAATGAAAGTAGAAAAG
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Sequence=6631;DNA;Homo sapiens
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GTCTCTGCCCTCTGTAGCTCCCATGAGAGAGGGCTCCTCGGACCGAAACAGGAGGCCACT
GCCCTTGCGCACACACCGTGGCCGGGTCCTCCTGGGCGGAGCGCTTTCCGTGTGTGGGAA
AGTCAAGGGCAGCCCCGAGCCTCGAAGCCCAGGCTCCCAGCCCCGCGCCATGTTGCATTC
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ACTCAGAGAGCCTATTTCTATCATCGCTTTCCTATTCTCCACCTAGAACCAGGTGACTGG
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CGAGCTCGAATTAATTCCTCTTACGGTTCCTCGCTCACTGACTC

Sequence=6633;DNA;Homo sapiens
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TABLE 2

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Sequence=6634;DNA;Homo sapiens
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CTCAGGGGCGGCTGCATTTTAGTAATGGGTCAAATGATTCACTTTTTATGATGCTTCCAA
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Sequence=6635;DNA;Homo sapiens
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Sequence=6636;DNA;Homo sapiens
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TABLE 2

1036/3461

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Sequence=6639;DNA;Homo sapiens
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Sequence=6640;DNA;Homo sapiens
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Sequence=6644;DNA;Homo sapiens

TABLE 2
1037/3461

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TABLE 2
1038/3461

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Sequence=6650;DNA;Homo sapiens
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Sequence=6651;DNA;Homo sapiens
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TABLE 2
1039/3461

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TABLE 2
1040/3461

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TABLE 2
1041/3461

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TABLE 2
1042/3461

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TABLE 2

1043/3461

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Sequence=6682;DNA;Homo sapiens

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AATGCCTCTGGAAGTGAAAGTGATCAGGATGAAAGAGGTGATTCAGGACAACCAAGTAAT
AAGGAACTGTTTGGAGATGACAGTGAGGACGAGGGAGCTTCACATCATAGTGGTAGTGAT
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CATTCAGATGATGAAAAATGGGG

Sequence=6683;DNA;Homo sapiens

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GTAATTCTATATTTTCCCCAAAACCCACATTTTATGAAGAATATTTATTTATTTATTTAT
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CCGCTCACTGCAACCTCCACCTCCTGGGTTCAAACGATTCTCCTGCCTCAGCCTCCCGAG
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TABLE 2
1044/3461

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Sequence=6684;DNA;Homo sapiens
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CCATCCAGGGCTCTGACTAATTGTATTCAAATCAAGGCAGGAGCGGGCCAGCTGGCGTTG
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CAGAAGTTCTGAAACACTTTTAGATCTTCCAGAATTTCTTGAGGAAGTCTGCCTAAGTAA
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Sequence=6685;DNA;Homo sapiens
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Sequence=6686;DNA;Homo sapiens
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GAGGGAGACAGCAGATGGCCTGTGATGACTAGAGTCCATCATA
Sequence=6687;DNA;Homo sapiens
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Sequence=6688;DNA;Homo sapiens
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TABLE 2
1045/3461

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Sequence=6691;DNA;Homo sapiens
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Sequence=6693;DNA;Homo sapiens
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TABLE 2
1046/3461

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Sequence=6702;DNA;Homo sapiens
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TABLE 2
1047/3461

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Sequence=6703;DNA;Homo sapiens
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TABLE 2
1048/3461

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TABLE 2
1049/3461

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Sequence=6716;DNA;Homo sapiens
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TTGGGCGTGATGTTTATCAAATGTTAGATATTGCAAAGAAATTAGAAGGAAAAGCTAACA
TTATTATGGCAACTGGTTTTCATAAAGCTGCATTTTATGACAAAGGTGCTTCTTGACTTG
CTTTGGCTCCAACAGATAAAATTGTAAAAATGGTTGTAGCTGAAATCGAAGAAGGAATGG
ATGAATATAACTACA

Sequence=6717;DNA;Homo sapiens
ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCGTAGAAGAAG
AAGGAATACCTAAAGAAACAGACATAGAAATCATCCCAGAAATCCCGGAAACTCTAGAGC
CACTGTCCCTTCCAGATGTGCTGAGGATCTCGGCAGTTCTGGAGGACACCACAGGCCAGC
TCTCTATTCTGAACTACATCATGCCCGTTCAGTACCTCGGCCGCTCTAGAACTAGTGGAT
CCCCCGGGCTGCAGGAATTCGATA

Sequence=6718;DNA;Homo sapiens
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AAGATTACTTTATGAACAACAGCACCTTGAGATTCGATTAAGTTAATAATCGCTTTCATT
GTTCCGCCAGTAGCTAAAACATCATCAATAATTGCTACTTTTTGGCCTTTTTTCAACATA
TTAGTTTGGATTTCTAGAGTTGATTTACCATATTCTAAATCATACTCAAAACTAATAACG
TCTCCTGGTAATTTTTTAGGTTTTCTTACCATAATAAAAGGTTTTTTTAAAAAAGCTGCA
GTAGGTGTCCCAAACAAGAAACCTCTTGCGTCTGGACCTATAATAACATCTGCATCTTTA
GCTAACTCAGCCATTTGATTAATTGTGTAATTTAGCACTTCTCCATTTGCTAAAAGTGGT

Sequence=6719;DNA;Homo sapiens
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GCAGCGTATCCTGTTCCGGCTTTAATAATTCCGGCTTTGGATTTAGATCTTTTTACAACT
GGTCCGCTGTAGTTATATTCATCCATTCCTTCTTCGATTTCAGCTACAACCATTTTTACA
ATTTTATCTGTTGGAGCCAAAGCAAGTCAAGAAGCACCTTTGTCATAAAATGCAGCTTTA
TGAAAACCAGTTGCCATAATAATGTTAGCTTTTCCTTCTAATTTCTTTGCAATATCTAAC
ATTTGATAAACATCACGCCCAACGTTAGGAGGGTCCATTGTAACAACAGTTTTTCCTCCT
TTTGCTACATATTCATTCATTTCTTTAATTGCAGCATCTTTTGACATCATAATAAAATCT
G

Sequence=6720;DNA;Homo sapiens
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CACTATCACTGTCCTGTAAATTTAGTAGCCTTGGCTGGAAACACTGTAGTCGACATGATC
TGATATTGCTTAATATTTCAGAAAGAGACAGTCTATTTTCACAATGTTTACTGGAAGCAT
TGGTCCGAGAGAAATTAGAAGAAAAGTCTATAGTTTGGGAAGAGCTTGAAAAACTATTCA
GCATTTCAGGGTCTATCTGTTTCAGGACTGGGTCATGTTCTGTGGATATTCGGTCCATTA
TGACCCTTCCACCTCTGCCAATTCGCCTCCTTGCAAATCCTATACATCTTCTTGGGACTG
TAAGTGTTGTAAGGCAATGCCTATA

Sequence=6721;DNA;Homo sapiens
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AGCACATAAGGTAATGCACGTTAATTAGCTATATTGAGCCATTCCACAATGTATAGATAT
TTCAAAACATGTTACACATGATAAATCCAGTTTTTCTACGTCATTTTTTAAAATTATATT
TAATTTTTTTATTTTGAAAGTTTTTTCACAGATCTTTTTTTTTAGTATTATTACCTTCTGA
TATATGTGTCATTATTGAAGAACCATACCTTTTAAAGTTATTATTTTGTAATTAAGTATG

TABLE 2
1050/3461

TCAACAGTAAAAAATAACCAGTGGCCAGGCCTGGTGGCTCATGCCTGTAATCCCAGCACT
TTTTCGGAGGC
Sequence=6722;DNA;Homo sapiens
CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTGTGAAGACAGC
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GCACTCCCAAGCTGTGAATGTCATCTCAACAACCTCAGCCAGAGTGTCAATTTCTGTGAG
AGAACAAAGATTTGGGGCACTTTCAAAATTAATGAAAGGTTTACAAATGACCTTTTGAAT
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TATGAAAGAATTCAAGGTTTTGAGGTCGGTTCAGGTCACCCAATTTCGAAATGGAAGCAT
CGTTGCTGGTATGAAGGTTGTTGGCTCCAGCAGTGCATCTGAACTGCTGTCAGCCATTGA
ACATGTTGCCGAGAAGGCTTAGACAGCCCTTCACAAGCTGTTTCCATTAGAAG
Sequence=6723;DNA;Homo sapiens
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AAAACCAAAAAAACAAAAACTTATTTTAGAAAGACTTGGATAATGATTGATTATAAAAAA
ATGATTGACCATACTTTATTAAAACCAGAAGCTACATCTAAAGATATTTTAAAACTTATT
TCACAAGCTAAAGAACATGGATTTAGAGGAGTTTGCATTAACTCTTCTTGAGTTAAATTA
GCAAAAGAAAAACTTGCAAATACAGATTTAGATATCGTTTCAGTAGTTGGCTTTCCATTA
GGTGCATCAAACACACAAACCAAGGTTTTTGAAGCAAAATTAGCAGTTGAACATGGAGCT
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TTAAA
Sequence=6724;DNA;Homo sapiens
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ATTGCAAGATTTTTTTTTCTTTCATTGACACTTAGCTAATTTTGAGCCATATTTTTAAAT
GTGTGTCTTTTCAGTTACTTGAAACCTCTTCTCCCACCTCCCATCCTTTCCAAACCTCCT
CCAAGCCAATTTTCCAGTTGGTTTAAAAGAAATCATTAGGGTGACCCCCACTCCCACTTT
CTGGAACCTCAGGCAGAGCTCCTGGTGGTTCCTCCCTAGCACCA
Sequence=6725;DNA;Homo sapiens
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TAATTCACTGAACTGAAAATGATTTAACAGCTTCGTGAACAACTAAAAGTCTTCCAGTTT
TTTTAACAGAGTTAATAATTGTATCTGTATCTAAAGGAGAAATTGTTCTTAAATCAATTA
ATTCTACAGAGTATTCTCCATTTAATTGTTTTAAAGCAGCTAGTGCTTCGTGAACTTGTG
CTCCATATGTTACTAATGTTAAATCAGAACCTTCTACTAATACATTTGCTTTACCAATTT
CAACTTCATAAATTCCTGCTGGAGCTTCTTGTTTGAATGAACGATAAATTTTCTTAGGTT
CTAAGAAAATAACTGGATCTGGGTCGTTAATAGCTGCGATTAATAATCCTTTTGTATCAT
AAGGAGTTGAAGGCATAACAACTTTTAATCCTGGAATGTGTGCATATAAAGCTTCAATTG
CTTCTGAGTGGTGTTCTAGAGCTCTAACTCCACCTGCCATTGGCATTCTAACAACCATAG
GTACCTGCCCGGGC
Sequence=6726;DNA;Homo sapiens
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GTAAAAAGATTACTTTATGAACAACAGCACCTTGAGATTCGATTAAGTTAATAATCGCTT
TCATTGTCCGCAGAGCTAAAACATCATCAATAATTGCTACTTTTTGGCCTTTTTTCAACA
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CGTCTCCTGGTAATTTTTTAGGTTTTCTTACCATAATAAAAGGTTTTTTTAAAAAAGCTG
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TAGCTAACTCAGCCATTTGATTAATTGTGTAATTTAGCACTTCTCCATTTGCTAAAAGTG
GTGAAATATCTTTAAATACAATCCCTTCAATTGGGAAATCTTTAACATCTCTGATGTATT
CTATTAAATTGATTTGATTTTTTTTGCATTTCCCCGCGTACCTGCCCGGGCGGCCGCTCTA
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Sequence=6727;DNA;Homo sapiens

TABLE 2
1051/3461

TACACTACTATATGGGCGAATGGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGATAGT
CATCTCAGTAAAAGGTCTATTATCTAACTTGCCAAACTTGTTTACTGAGAGCCCTAAGGA
ACTAAAACTGCCATAATGCCGTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAGT
TTTTCCTCCCTTCCAGTTCCTCAGCAGGCCTGGCTGAAGGCCCAGGAGGGAAGGAAATAT
AAG

Sequence=6728;DNA;Homo sapiens
CGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGATAGTC
ATCTCAGTAAAAGGTCTATTATCTAACTTGCCAAACTTGTTTACTGAGAGCCCTAAGGAA
CTAAAACTGCCATAATGCCGTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAGTT
TTTCCTCCCTTCCAGTTCCTCAGCAGGCCTGGCTGAAGGCCCAGGAGGGAAGGAAATATA
AGAACCAACAATAAAAATAGCAATAGCAATAAGAAGAATGCCATCCCATGGAGCACACCA
TAATTCTGGAACCACCTCTCCCGGATCAGGCTTCCATTGCTCACGATGCTCACGCTGGGC
AGCCGCAACTCTACTTTGCAGAACCTCACCAACTTGCCCAGGTATTCTCCCCGGTCTTGA
AGAAATGGCTTTCCACCTGAAAAGGTGATCTTTTCCATACCAGCTTCCTTAAGCAAAAGC
AATCCTC

Sequence=6729;DNA;Homo sapiens
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ATCCTGTTCACATTCAGTGAAATGGCATTGCATATTTATATGTTGCTTACAGCTTATTGA
TTTAGGTAACTATTGTGTCTTCCTTCACTATCTGACCTGAAAAGCACTCTCTTCTCTATG
CACTCTTATATTCTGCCTTTCTGCCTGGAGTTTGAAATACATGTCTCTTTAGTTTCTTTT
GCACATGCTACATTGGGCTTTAGACCGGAGATAATACAGTGACTTTACCTCACAAATCAT
ATTCTGTCAACACAAATCTATGAATTTAGTTTATTTAAAATCAGAACAATTTCCTACAAA
ATTTTTCTGGAAAATAGACTCCTAACAGACCTACCAGAATCATGCTTAAAGTGCTCCCTT
GACACTTATTCTATACTGAAGGATAAATTTTAAAAAATCTTTATAGGCTACTGTCAAAAG
TATC

Sequence=6730;DNA;Homo sapiens
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TCATCTCAGTAAAAGGTCTATTATCTAACTTGCCAAACTTGTTTACTGAGAGCCCTAAGG
AACTAAAACTGCCATAATGTCGTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAG
TTTTTCCTCCCTTCCAGTTCCTCAGCAGGCCTGGCTGAAGGCCCAGGAGGGAAGGAAATA
TAAGAACCAACAATAAAAATAGCAATAGCAATAAGAAGAATGCCATCCCATGGAGCACAC
CATAATTCTGGAACCACCTCTCCCGGATCAG

Sequence=6731;DNA;Homo sapiens
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CAAAAACCAAAAAAACAAAAACTTATTTTAGAAAGACTTGGATAATGATTGATTATAAAA
AAATGATTGACCATACTTTATTAAAACCAGAAGCTACATCTAAAGATATTTTAAAACTTA
TTTCACAAGCTAAAGAACATGGATTTAGAGGAGTTTGCATTAACTCTTCTTGAGTTAAAT
TAGCAAAAGAAAAACTTGCAAATACAGATTTAGATATCGTTTCAGTAGTTGGCTTTCCAT
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CTACTGAAATA

Sequence=6732;DNA;Homo sapiens
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TCTCGGCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCATACCAACTAACTAATGT
TCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCATCATGCGATA
AATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTTAAAGGTAGGT
TAGGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAA
GCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGT
GAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTT
ATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTG

Sequence=6733;DNA;Homo sapiens
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GACGTTCTGTTTTAATGAAAGGATGGACATGCAACTGACACTCGCACAACTCTTGGCAAT
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TABLE 2
1052/3461

GGAATTCGGTATCAACACGTCGGCGCGCCAGGCCGCGTGGCTGGCCACCATCGGTGTCGA
GTCCGGTAGCCTGCAGCGGGTAGAGGAAAACTTGAACTACCGCGCGGATCGCCTGCTCGT
TATTTTCGGAAAATACTTCACGCCCGGCGTTGGCCGCAGCTTATGCCGGCAAGCCGGAAA
TGATCG

Sequence=6734;DNA;Homo sapiens
AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTAAACTTTAATTAATGAGCT
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TACTTTATGAACAACAGCACCTTGAGATTCGATTAAGTTAATAATCGTTCATTGTTCCGC
CAGTAGCTAAAACATCATCAATAATTGCTACTTTTTTGGCCTTTTTTTCAACATATTAGTTT
GGATTTCTAGAGTTGATTTACCATATTCTAAATCATACTCAAAACTAATAACGTCTCCTG
GTAATTTTTTTAGGTTTTCTTACCATAATAAAAGGTTTTTTTTAAAAAAGCTGCAGTAGGTG
TCCCAAACAAGAAACCTCTTGCGTCTGGACCTATAATAACATCTGCATCTTTAGCTAACT
CAGCCATTTGATTAATTGTGTAATTTAGCACTTTTTCCATTTGCTAAAAGTGGTGAAATAT
CTTTAAATACAATCCCTTTAATTGTGAAATCTTTAAACATCTCTGATGTATTCTATTAAA
TTGATTTGAATTTTTTTGCAT

Sequence=6735;DNA;Homo sapiens
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AATGGAAAGAAATGTTCTTACAACATTTTCACAGGAAATGTCCCAGTTAATTTTGAATGA
AATGCAAAAGCTGAATATTCCAGTTTATTCAATGATTTTGTTGAATCTGAATTTTTTTTG
ATTGATGGGGATTCATTACTTATCACATGTATCTGTGAGATATCATTTAAGCCTGGGCAG
AACCTCCATTTCTTCTATCTGGTTGAACGCTATCTTGTGGATCTTATTAGCAAAGGAGGA
CAATTCACCATAGTTTTCTTCAAGGATGCCGAGTATGCGTATTTCAACTTCCCTGAACTT
CTTTCTTTGAGAACTGCTTTAATTCTTCATCTTCAGAAAGAATACCACCATTGATGTTCG
AACAACATTTTCGAGATGCTTATAAAA

Sequence=6736;DNA;Homo sapiens
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TTTCCCAATTGAAGGGATTGTATTTAAAGATATTTCACCACTTTTAGCAAATGGAGAAGT
GCTAAATTACACAATAATCAAATGGCTGAGTTAGCTAAAGATGCAGATGTTATTATAGGT
CCAGACGCAAGAGGTTTCTTGTTTGGGACACCTACTGCAGCTTTTTTAAAAAAACCTTTT
ATTATGGTAAGAAAACCTAAAAAATTACCAAGAAGACGTTATTAGTTTTGAGTATGATTT
AAAATATGGTAAATCAACTTTAGAAATCCAAACTAATATGTTGAAAAAAGGCCAAAAAGT
AGCAATTATT

Sequence=6737;DNA;Homo sapiens
CACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGCCTCTCGGC
CCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAACTAACTAATGTTCCGCAC
CCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCATCATGCGATAAATAACT
ATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTTAAAGGTAGGTTAGGTAC
CTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAA
GCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGT
GAGGGTTAATTGCGCGCTTGGCGTAATCATG

Sequence=6738;DNA;Homo sapiens
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ACTGAGATACGGCCCAGACTCCTACGGGAGGCAGCAGTAAGGAATTTTCCACAATGAGCG
AAAGCTTGATGGAGCGACACAGCGTGCAGGATGAAGTTCTTCGGAATGTAAACTGCTGTT
ATAAGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAGGTACCTGCCCGGGCGGCCGTTCTAG
AACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCT
CGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGG
CGT

Sequence=6739;DNA;Homo sapiens
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GGCTGAAGGCCCAGGAGGGAAGGAAATATAAGAACCAACAATAAAAATAGCAATAGCAAT
AAGAAGAATGCCATCCCATGGAGCACACCATAATTCTGGAACCACCTTTTCCGGATCAGG

TABLE 2
1053/3461

CT
Sequence=6740;DNA;Homo sapiens
CTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAGGAACTGCCAAAGGCAACAGAAATTC
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AGATTCAGGAGCTAACATGCCCCAGGTCTCACGAGGATCAGAGACTCCAGAGGCCAGGGA
AGGAGATCAAGGTAGACAAGCGGGGGTGGTCTCAGATCTGGTTGAGCTCGAGCTATGCAA
ATGCCTCTCATGGAGATGCGAGGACCTATCTATTATGATGACCAGGGCCACATCCGGAGG
GGGCAACAGACTTTCATCTATCAGCCCTTTTCAACCACTGATCTACTAAACTGGAGACAC
TCTGAACCCTGCC
Sequence=6741;DNA;Homo sapiens
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AGAGAACAAATAGAAACTGACTAAAGAAACATTAGATCAGTGGTTCTCAGAGTATTGATA
TCTGGGAGTCCCAGCAACAGTCTGAGGAGGTTCATGAGTTCAGAATATTTTGATAATAAC
ACTAAGATGGTATTTACTCTTCTAACTGGGTAGATATTTGCACTGGTCGGCCGCTCTAGA
ACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTC
GAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGC
GTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAA
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Sequence=6742;DNA;Homo sapiens
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Sequence=6743;DNA;Homo sapiens
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GCATGTTCTCAGAGTCTGATGACAGAGCATCAGTGTGTGGTCCCAGCACCCCCTCCTGTG
CGGACTTCTGGGCATCCTCCTCCAGATACTCAATACTCTTGAGGGCCTGAGGAAAGTCTC
TATGAAAGGTCTTGCAATTTTGGGTGCAATGGTTTCCGTGACAGAAGGTTCCTGAGAAAG
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CGCTCACAATTCCACACAACATA
Sequence=6744;DNA;Homo sapiens
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TAACGTTGTATTGGAAAAACCAGTATGAACTTATGATTTAGTTTTCTTTCTAAAAACGGA
CGCGTGGGTCGAAGCTTGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGG
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TGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCT
GTGTGAAATTGTTATCCCGTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGT
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Sequence=6745;DNA;Homo sapiens

TABLE 2

1054/3461

CACTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCC
CCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCG
GTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCA
TAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGG
AGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTG
CGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCCTTAATGAATCGGC
CCACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTTCTCGCTCACTGAC
TCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCCTACTCAAAGGGCGGTAAT
A

Sequence=6746;DNA;Homo sapiens

ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACACTC
CAGCTCCTCTATCCTTTGTTCCAGGTGAGCCTTCTCATTAAATGCTGTCTCTTGAGCAAT
CTTTAGCCTCTCCCTTAGACTATCTCGTTCTGTGGTCATTCTTCGTAAATCAGTAAAGGC
TACATCTCTTTCAGTCTCCACTCGCCGGAGAATAGCATGTGCCGTTGTTGATTTAGGACT
CTTACAGCTTTTCATCATTTCTCGTCGAAGTCGGGTAATTTCTTCCTGTGCCTGTTCATA
AAGAAGGAAGATCTTGTCTCTCTCAGATTTAAGAACCTTGACATTACCCTGAATTTCTGC
CAAATCGGACGCGTGGGTCGAAGCTTGTACACCTCGGCCGCTCTAGAACTAGTGGATCCC
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GCCCCCAGCTTTTGTTCCCTTTA

Sequence=6747;DNA;Homo sapiens

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GGAAACCATTGCACCCAAAATTGCAAGACCTTTCATAGAGACTTTCCTCAGGCCCTCAAG
AGTATTGAGTATCTGGAGGAGGATGCCCAGAAGTCCGCACAGGAGGGGGTGCTGGGACCA
CACACTGATGCTCTGTCATCAGACTCTGAGAACATGCCGTGTGATGAAGAACCATCCCAA
TTAGAGGAGCTAGCTGACTTCATGGAGCAGCTTACACCAATTGAAAAATATGCTTTAAAT
TACCTGGAATTATTCCATACT

Sequence=6748;DNA;Homo sapiens

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CTCCATCTCAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGCTCTAGAACTAGTGGATCCC
CCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCG
GAACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCA
TAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGG
AGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTG
CGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGGGCCAGCTGCATTAATGAATCGGC
CAACGCGCGGGGAGAGGCCGGTTGCGTAATGGGCGCTCTTCCGCTTCCTG

Sequence=6749;DNA;Homo sapiens

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CTAAGGTATATTTGGTTAGATCTAGGTGAGTTCTACTTTAGAGGAAATCCTGGTAACTGT
TGTTTGTTTGTAAGTTATAGCTGTAATTAATTTTCCCTGTATTCAAAGCCCCCAAACCCT
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TCTAAGCTATTATTCAAGGAGTATCTACCATCATAAAGGTGGTTTAGTCATATAGATAAT
ATCAATCAATAATACAGGAGAAGGCCAAAATTTTTTG

Sequence=6750;DNA;Homo sapiens

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TABLE 2

1055/3461

Sequence=6751;DNA;Homo sapiens
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Sequence=6752;DNA;Homo sapiens
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GGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGT
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TABLE 2

1056/3461

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TATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAG
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Sequence=6758;DNA;Homo sapiens

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GCAAGTAGGAAATTACTGAACAGCTGCTATCACAGACAAATGCCTAACATTGTGAAGTGC
TACACAGGGGAAGGAGACCCACGCTAAGAGGAGAGCATGCACCCAGACACAGAACTCAGA
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Sequence=6759;DNA;Homo sapiens

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Sequence=6761;DNA;Homo sapiens

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TABLE 2
1057/3461

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CCCGCTTTCCAGTCGGGAAACCTG
Sequence=6767;DNA;Homo sapiens
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TABLE 2
1058/3461

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CGGCACTTTATGTATTAGCTAAAAATTTCATGACCAGATCTTTTGAAGTATACAAAGTAA
ATCTTCAAGGTGATAGTTTATCCAAGTGTAAATGTGTTGCACTAGGTCAGCTTGGAATTT
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CTAGAACTAGTGGATCCCC

Sequence=6768;DNA;Homo sapiens
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Sequence=6769;DNA;Homo sapiens
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CGT

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TABLE 2
1059/3461

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TABLE 2
1060/3461

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Sequence=6779;DNA;Homo sapiens
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Sequence=6780;DNA;Homo sapiens
TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACGCGTC
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GAAGGAAATATGCCTAATAAGAGATGATAGTTTTAGCAATAAATGAGCATTAGAACTATT
ATTTATTAATGAAATGAACTGGTGGTCTGAAAGTGATGATAAACAGACAACTGTGGAAAA
TGAATTATTAAAATTCCATGGAATTCCTTTTGAAGTTTATGAAGTACCTGCCCGGGCGGC
CGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACC
GTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGC
GCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAAT
TCCACACAACATACGAGCCGGGAGCTAAAGTGT
Sequence=6781;DNA;Homo sapiens
TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACGCGTCCGC
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AGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAG
GGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTA
ATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACAT
ACGAGCCGGGAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATT
AATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTA
ATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTC
GCTCACTGACTCGCTGCGCTC
Sequence=6782;DNA;Homo sapiens
AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAACTTGTGATGCT
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GAACTCGTAAAGAGAAGATTCTGGAATGCCTATATCTGAAAGCTTGAGTCGACACCTCGG
CCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATAC
CGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTG
CGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAA
TTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGA
GCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGT
GCCAGCTGCATTAATGAATCCGCCAACGCGCGGGGAGAGGCGGCTTGCGTATTGG
Sequence=6783;DNA;Homo sapiens
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GGAATGAGTGAGTGCAGAACTGGCAACCAGAAGACAGGAACAAGGCCTGGGAATGGAGCG
GAAAGGTAGCTGCTATATATAGTTCCTTCAGCCAGTAACGATTAGAGCCAATAGCCATCT
GGATGATGAATGGCTCCTAATTGCCTTAAATTACGGCAGTTAGCTAAGGGTTTCTGTTGC
TACATGGGTTACCGTAGGCCGCTGCACCCTGCATAACTGTCCTCAGGCCTGCGTCCCCTG
AGTCTCAGCACTTGGGCCTCCACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCC
GGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGT

TABLE 2
1061/3461

ACCCAACTTTT
Sequence=6784;DNA;Homo sapiens
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GAATGAGCCACCACACCCAGCCAAATTGGGCACAAATTTAAAATTTGACTGTTATTAATG
ATATGGTAAAGAGATCTAGCTTGGTCATGACACCCTTGTGTTATACGGTGACAGGCAAAT
CATTTAAAAATATCTAAACTATAATTTCCTGTAGTTCACATGAATTGGATATTCTGAAGC
GGGACGCGTGGGTCGACTTTGTAACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCC
CCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTGGAGGGGGG
Sequence=6785;DNA;Homo sapiens
TGGCGAATTGGAGCTCCACCGCGGTGGCGGGCGAGGTCGAGCTTCGACCCACGCGTCCGA
TTATTCTCTCCATTTAGGCTATAAATCTTTCAGTGTAGGGTGTTTCTAATGGCGTATTCT
TCCAAAAAAAAAAAAAAAAAAGTGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCA
GGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCT
TTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTC
CTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGT
GTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGC
CCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATC
Sequence=6786;DNA;Homo sapiens
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CTTGTCATGTTACAGAGGAGCGTAAAATTGTGGTTAAACATTTTTTTAAAGATTACATGG
TAGAGCCACAGTTTGTTATGCAGAAGGAAAATTTAGCAAATATTATTTTGCTTAATAGCC
TTTAAAAAATCGTATAAATTTGATTTGTAGTTTTATCCCCAGAGTCATTAGATTTTTCCA
AAAAAAAAAAAAAAAAAAGGTGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGG
AATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTT
TGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTTGTTCCT
GTGTGAAATTGTTATCCGCTCACAATTCCACACAACATA
Sequence=6787;DNA;Homo sapiens
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TTACTGTTAATATCCTTATTCTCTATTTTACCAGTGGAGAATGTTTAGTATTAATTTCCA
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GTCTTCTGCTTTGGAAGTCCCACAACAGCTCTTTAATTTCCTTAAGCCCCACTTTCCTCA
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GCGTGGGTCGAAGCTTGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGG
AATTCTATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTT
TGTTCCATTTAGTGAGGGCTAATTG
Sequence=6788;DNA;Homo sapiens
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GGTCGAAGCTTGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCG
ATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCC
CTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGA
AATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAAGCC
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CAGTCGGG
Sequence=6789;DNA;Homo sapiens
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GGAAAGCACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATC
AAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTA
GTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTG
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TGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT

TABLE 2
1062/3461

Sequence=6790;DNA;Homo sapiens
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GTCATGAAATTTTTAGCTAATACATAAAGTGCCGAATTGAAATCCAGAATACAATAGCTA
TGAAGGGCCGCTAGAGTGCAGATAACCAACCCATTCTACCTAACTCAGGTTGAGATTGCT
TTAGAACCTATCATTGGCTTTAAAATGGTCCACAAAAAAACACCTCATGGTCACACTTAA
AATAGTTTGCATCCCACACTACAGGCTTCTCTGGAGGATTTAATACTTTGGAAGTAGCAT
CATAAGCCCT
Sequence=6791;DNA;Homo sapiens
GAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTGTAAACATCTCCCTCGTCCGGATCCT
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GTGGAGCAGATGCCAAGCCACAGGGAGTGGTGGAGACTGGGGTGAACTGGAAAGCACCTC
GGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGAT
ACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAAT
TGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCAC
AATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGT
GAGCTAACTCACATTAATTGCGTTGCGCTCACT
Sequence=6792;DNA;Homo sapiens
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TGCTTGTATGTGACTAAAATTATGTTGGTATCAGTTTAAAATATATTATTATAACTTTAG
AATGCTATACCCATTCCCACAGTAATTCCCATAGTAACCAAAAAGAAAATATCTGTAGGA
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TCAAAATAGAAAACAATAATGGAGAAAATAAGACACCAAAAGCTATAAGACTCACAGAAA
ATAAATAATAAAATGGCAAAAAGAAGCGGACGCGTGGGTCGAAGACCTCGGCCGCTCTAG
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CGAGGGGGGGCCCGGTACCC
Sequence=6793;DNA;Homo sapiens
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CTGTAAGAGTCCTAAATCAACAACGGCACATGCTATTCTCCGGCGAGTGGAGACTGAAAG
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GCTAAAGATTGCTCAAGAGACAGCATTTAATGAGAAGGCTCACCTGGAACAAAGGATAGA
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CAGAATTTATGTGATTACTGGGTACTCTAATGGTAAG
Sequence=6794;DNA;Homo sapiens
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GATGATAATTCTGAGTAAAAATTTAGAAGATTTTGAGAAAAGCATTTGAACTTCTAGGGG
CCAATAAAATACCATGCAGAAGAATGTTTAAAAAGTCATGCCAAATTTGAATCCATTTGA
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ATAGAATGAAACTTTCCACAAANTAGACTGTGTCAGTGGCTGGCTACTTCTAACAAGGTG
CCCGGACGCGTGGGTCCGACTCAAGACCTC
Sequence=6795;DNA;Homo sapiens
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GGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTA
CCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAG
CTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGC

TABLE 2
1063/3461

ATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGC
Sequence=6796;DNA;Homo sapiens
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TAAGATGCGTGGAGCAGATGCCAAGCCACAGGGAGTGGTGGAGACTGGGGTGAACTGGAA
AGCACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGC
TTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGA
GGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTAT
CCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAAGCCTGGGGTGCC
TAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGA
AACCTGTCGTGCCAGC
Sequence=6797;DNA;Homo sapiens
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ATAATAACAATAGGTTCACAGAAAAGATGAATTGATTGAGAGAAAAAGAACCCTCCAGGA
GCCCTCAGCGTAGTAGGGGGTTGGTGTTGGAGGGTGGAGGAATGGAAAAGGCCCTGAAAT
GCAGGCAGAGAAATGATGAAACAATTCAGGGGCTGTGGTGAGGTTAAATGAATATCTTTA
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Sequence=6798;DNA;Homo sapiens
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AAGGTTTTTGTTGTTGTTTTGCAGGGGTGGGGGAACCAGGAAATCAGATCATCACAACAA
TATATACTTATCTGTAACTATGGTAACTGCTACAGCAAAGGGGCGTATCATACTATTAGC
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CTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACC
CAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGC
Sequence=6799;DNA;Homo sapiens
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CTCTTTCAGTCTCCACTCGCCGGAGAATAGCATGTGCCGTTGTTGATTTAGGACTCTTAC
AGCTTTTCATCATTTCTCGTCGAAGTCGGGTAATTTCTTCCTGTGCCTGTTCATAAAGAA
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CGGACGCGTAGGTCGAAGCTTGTACACCTCGGCCGCTCTAGAACTAGTGGATCCCC
Sequence=6800;DNA;Homo sapiens
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TGGGTCTGGGGAAGACCCCACGCCCCAGATGTGCTCCCCTAAGCTGACTGCTCATAGGAT
CAGTGTGTTTAGAGAGGGTAATGCCTACACCTCGGCCGTTCTAGAACTAGTGGATCCCCC
GGGCTGCATGAATTCGATATCAAGCTTAT
Sequence=6801;DNA;Homo sapiens
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TTGCCTAGGCTGGTCTTGAACTCCTGGGATTAAGCAATCCTCCCAACTAAGCCTTCCAAA
ATGCTGGCATTACAGGTGTGAGCTACCACAATCAGTCTCTTAGATTTTGTTTTTTAAGAA
CAATTCGAAGTTTACTGCAAAATTGTGAAGAACGAACAGACTGTTCCCACATATCCCTTT
TTCTTTACACACCGGACGCGTGGGTCGAAGCTTGACCTGCCCGGGCGGCCGCTCTAGAAC
TAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGA
GGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGT
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Sequence=6802;DNA;Homo sapiens

TABLE 2
1064/3461

CTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGAC
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TTGACCTGGCCGGTCGGCAGCTTTTACAAACCTAAGGACTTCAGGGTCCGGTTGCGCATG
AGGACCGGGGAGGACAGAGCTGTTTGCAATAGGTGTGGGCTTTTATAGCATTGTGAGCAT
TTCACGTTAGCGTAAGTGTTGCTGCTGTGCAGGTGGTCTCTGGGGCTTACAATCTTCCCC
AATGTTCTTCCCCACCCCTCCCACCATTCTGGTGAACAAGCCTCTTGGGATTCTTTGAAA
AAAAAAAAAAAAAAAACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAAT
TCGATATCAAGCTTATCGATACCGGCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGT
TCCCTTTAGTGAGGGTTAATTGCGCGCTT

Sequence=6803;DNA;Homo sapiens

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AATCTGTAACATCAATAATGTAAAGTGGGGAAGGGCAAGGTGGAAAAGGAGTGGAATGCT
TGTATGTGACTAAAATTATGTTGGTATCAGTTTAAAATATATTATTATAACTTTAGAATG
CTATACCCATTCCCACAGTAATTCCCATAGTAACCAAAAAGAAAATATCTGTAGGATACA
CACAAAAGAAAATCAGAAGTAGATGCAAACTTGTCACTACAGGAAAAAAAAAGCTATCAA
AATAGAAAACAATAATGGAGAAAATAAGACACCAAAAGCTATAAGACTCACAGAAAATAA
ATAATAAAATGGCAAAAAGAAGCGGACGCGTGGGTCGAAGACCTCGGCCGCTCTAGAACT
AGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAG
GGGGGG

Sequence=6804;DNA;Homo sapiens

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GTATAATCCTGATGCCAATTCTAAAAAACCTTTTTTTTTTTTTGTAGAGACAGGGTCTTAT
TCTGTCACCCGGGCTGGAGTGCTCTGGTATGATCCTAGTTCACTGCAACCTCAAATACCT
GGTCTCAAGCAATCCTCCCACCTCAGCCTCCCCAGTAGCTGTCTCTATAAGCATGCACCA
CCACACCTGGCTAACCTTCTTATTATTTTTGGTAGAGACAGTCTCACTATGTTGCCCAGG
CTGGTCTTGAACTTCT

Sequence=6805;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTATTCAACAAGGGCCCTGAGAGA
GGGACAGGCAGCCCCTGTGAATCTTGCTGTTCAGCAGAGACAGGAGTCAGCACGTGTGAG
GGCAGCAGGGAAGTCTTCCTGGAGGAGTGAGACCTGGCGATGAGGAGGCACGGCAGGGAG
GTGGAACAGGCAGGAGAGACTCTTCAGGAATTGAGGAGATAGAATAGAGGACACTAAAGC
CTTAGAGAGGCCAGGGGTGGTGGCTTGGCAGGATCATCGCTTGAGGCTAGGAGTTTAAAA
GCAGCCTGGGCAACATAGCGAGACCCCATCTCTAAACACAAAAAATAAAAACCTGCCCGG
GCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCG
ATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTA
ATTGCGCGCTTGGCGTAATCATG

Sequence=6806;DNA;Homo sapiens

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GTGCAATGGTGCAATCTTGGCTCACTGCAGCCTTGACCTTCCCTAGCTCAGCTGAACCTC
CCATCTCAGGACACCATTGCCTCCACTGCCCATCCTGCATCTGCCTGCCTACCCCAAAAG
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TTTAGTTTTTTCTTCTCTTATTTGTGAAGCCTTGAAAAAACTACTGTGGTTTATTTAGAT
TCTGGTTTGTGACTTTTTTAAATAAACTTTTTATTTTGGAATAAATTTATGTTTAGAGAA
TAGTTGCAAACATAATAAAGTGAGTTTTCATAAACGCCTTACCAGTTTCCCCTGTTGTTA
ACATTTTACATCACCATGCTTGTGCATTGGTCAAAACTAAGAAACTAACATGGCTGGATG

Sequence=6807;DNA;Homo sapiens

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GTATTAAATCCTCCAGAGAAGCCTGTAGTGTGGGATGCAAACTATTTTAAGTGTGACCAT
GAGGTGTTTTTTTGTGGACCATTTTAAAGCCAATGATAGGTTCTAAAGCAATCTCAACCT
GAGTTAGGTAGAATGGGTTGGTTATCTGCACTCTAGCGGCCCTTCATAGCTATTGTATTC
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TABLE 2
1065/3461

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Sequence=6808;DNA;Homo sapiens
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AAAAGTCATCTCAAAATTGCAAGCTGACCTAGTGCAACACATTTACACTTGGATAAACTA
TCACCTTGAAGATTTACTTTGTATACTTCAAAAGATCTGGTCATGAAATTTTGAGCTAAT
ACATAAAGTGCCGAATTGAAATCCAGAATACAATAGCTATGAAGGGCCGCTAGAGTGCAG
ATAACCAACCCATTCTACCTAACTCACGTTGAGATTGCTTTAGAACCTATCATTGGCTTT
AAAATGGGCCACAAAAAAACACCTTATGGTCACACTTAAAATAGTTTGCATCCCACACTA
CAGGC
Sequence=6809;DNA;Homo sapiens
CTCACTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCTAAAACTT
AAAGTATAATAGTAATAATAAAAAAAGAGGTGCTTTTCTCCTAAGTCAACATTTTAGAGG
AAAAGAGTCAATTCAAGCAATTATCACATATGTGTAACTGAAGCACATATGTGTAACTTT
TCAAGAGTGATTAGATGGTCTGTTGTCTTTGAAGTGATAGTCAAATATCAGGTGTGTTCT
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CTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTG
AGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTA
TCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAAGCCTGGGGTGC
CTAATGAGTGAGCTAACTCACATTAATT
Sequence=6810;DNA;Homo sapiens
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CATATTCTTCCAAAAAAAAAAAAAAAAAAGTGCGGCCGCTCTAGAACTAGTGGATCCCCC
GGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGT
ACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATA
GCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAG
CATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCG
CTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCG
Sequence=6811;DNA;Homo sapiens
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TATTTTTAAATGATTTGCCTGTCACCGTATAACACAGAGGGTGTCATGACCAAGCTAGAT
CTCTTTACATATCATTAATAAAAGTCAAATTTTAAATTTGTGCCCAATTTGGCTGGGTGT
GGTGGCTCATTCCTGTGATTCCAGCACTTTGGGAGACCTCGGCCGCTCTAGAACTAGTGG
ATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGG
GCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCAT
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CCGGGAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACA
Sequence=6812;DNA;Homo sapiens
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CAAAAGATCTGGTCATGAAATTTTTAGCTAATACATAAAGTGCCGAATTGAAATCCAGAA
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GTCACACTTAAAATAGTTTGCATCCCACACTACAGGCTTCTCTGGAGGATTTAATACTTT
GGAAGTAGCATCATAAGCCCTGCACATAACTTCTCAGTCTTGGGGTTAAGATCAATTATA
CACGCCCAAGACAGTCTTCACTGGATCTTGAACATATA
Sequence=6813;DNA;Homo sapiens
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GTATTAATCCGGACGCGTGGTCGAAGACGAAAGGACACGAGAAATAGGGACCTAGTCCCG
TCTAGAACTAGGAATCCCCAGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCG
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TABLE 2
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TTGACGTAATCATGGTCATAGCTGGTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCA
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CTCACATTAATTGCGTTGCGCTCAC
Sequence=6814;DNA;Homo sapiens
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CCTTTTCTTCTTCTTTTCTTTTACTGTTAATATCCTTATTCTCTATTTTACCAGTGGAGA
ATGTTTAGTATAATTTCCATTTAGCTCAAGATTCAAGAAATGCAAAGTGCTATTTTTATC
AAATTTCTGAAAGCCTACTGTCTTCTGCTTTGGAAGTCCCACAACAGCTCTTTAATTTTC
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GAGGATGAAGTGAGCGGACGCGTGGGTCG
Sequence=6815;DNA;Homo sapiens
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ACTACAAGTTCTCCTTTACACGGACGCGTGGGTCGACTCCGGACGCGTGGGTCGAAGACC
TCGGCCGTCTGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGAT
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TGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCAC
AATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGT
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GTGCCAGCTGCATTAATGAATCGGCCAACGCGCG
Sequence=6816;DNA;Homo sapiens
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TACGAGCCGGGAGCATAA
Sequence=6818;DNA;Homo sapiens
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TGGGTCATGCTCCACTGCAGCCATGGTTACTGGGAAGCCAAGTGGACTCCATGGGGCTCC
AAGCAGGGGAGGGAGCTCCTGGGAGACACAGTGTGGCCCAGATGCCCTGGTCATGGGGAC
ATCCAAGCACAGGTGAGAAACTTGGGCAGGGAGGGTGCAGAGGAAATTTGGAAATGGCTG

TABLE 2
1067/3461

AGAGGCTGGACTCAAGGTCTCTTGGGCTTGAACTGAGCTCAAGCAGTCCACCCACTTCAG
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AGATGCCTACCTGGGCACTGTAGACTAAATGAACCCTCAGACTGTGAAAGTCTCAGAAAT
C

Sequence=6820;DNA;Homo sapiens
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ACNTGAAAAAATTCAATGAACCTGTGAAAACAGTGGTCAAGAAGAAAAGAGAGGCATATT
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CTTTAGTGTGTATGTTACTTTAGATTATCTTGGTGTCATCAAGCTTTACTCAGCANAGAA
CCACTTTGTTGTCTACTTTAAAACATAGTTATCTTTAAAAGAATGGGTATCTTTATAGTT
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TCTCTATTTTGTA

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ATATTTCTAAGTTAAATCAACATTCGTAGAGGAATTATCAAAAAAAACTAGTAAGTCTGA
AAAAAAAACCATATTTTATANNTTCTGAGGTCCCGGACGCCGTGGGTCGAAGCTTGANCC
TCGGCCCGCTCTAGNAAACTAGTGGATCCCCCGGGCTGGCAGGAATTCGATATCNAAGCT
TATCGATACCCGTCGACCCTCGAGGGGGNGGCCCGGTACCCCAGCTTTTGTTCCCTTTAG
TGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGT
TATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAAGCCTGGGGT
GCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT

Sequence=6822;DNA;Homo sapiens
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TAAAAATACAACATTAGCTGGGCGTGGTGGCAGGCGCCTCTAATTCCAGCTACTCAGGAG
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AAAATAAACACAACAGAATTATTCTGCAAATACAGATATTGGAGTAGCTGAGTTCCATCT
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CAACTTTTTCACCAAATGGTATTGGGATACAACACTTGCTCTTGCCTATCTCACATGAAT
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GGACGCGTGGGTCG

Sequence=6823;DNA;Homo sapiens
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TTTCCTCATTAGAAGTTAGATCTGAAGCAATCTTTAAACTCGTGAGGAAAATTAAGTCTA
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GAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTT
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TCTGCTGACTTGTTAACAGGCAGCATTGGGGCAGGAGAGCCTGCAGGCCTTTCACGGCTG
CTTGAGTTCTCACCTGTTTGTCTGAGCTCTGATTCCTCTGCCCTGTAAGCGTAAAGGAGA
TGTGCTGAGTGGAAAGACCTCTAAACAGGCAGCCAGGAAGCCAGATTTCAGGTCCATCTC
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TABLE 2

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TAAAAGGAAAAGATTGGGTTTAGATTGTTTCTGAAGTTCTCTCTAGATTTAACCTGGAAG
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Sequence=6825;DNA;Homo sapiens
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TAGATAATTCTTTGCTGGTAAATTCCAACAGAATAGTTAGCACACAGGTTCCACACACAC
AAGTTCTAGATAGGAATCTGAAGCACCACAATGAAAAGAACATTTAACATCTTTTAAAAA
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TATTTGAAAAAGAAGTTTTTACAGTTATCTGTTGTCACCATATTGTAAACGGACGCGTGG
GTCGAAGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATC
AAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTA
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TTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGGGTAAAGCCTGGGG
TGCCTAATGAGTGA
Sequence=6826;DNA;Homo sapiens
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TTCTCCAGTCTG
Sequence=6827;DNA;Homo sapiens
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TGGTGAAACCCTGTCTCTACTAAAAATACAAAAAAAATTAGCCGGGTGTGATGGCGACCT
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TABLE 2
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Sequence=6830;DNA;Homo sapiens
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GGCAGATTGAAATATATACGTGAACGTCACAAAGACCAATTACTGCCATTTCAATTCAAT
GAGGAAATAATGATGTATTTAATAAATAGTGCTAGAATGCTGCATTATCTGTCTAGGATG
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GAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAACTT
T
Sequence=6831;DNA;Homo sapiens
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AGTCTTGAATTTATTTACTTTTGCCAAGAACAGCTATATAAAATTAGATTCCTCCTGGTA
TAAAATTGGGTGTTTTCTTAGATATTTGCTATCAAAAGTCATTTTTCTTGGAAATCGGAC
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Sequence=6832;DNA;Homo sapiens
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Sequence=6833;DNA;Homo sapiens
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Sequence=6834;DNA;Homo sapiens
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TABLE 2
1070/3461

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Sequence=6837;DNA;Homo sapiens
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Sequence=6838;DNA;Homo sapiens
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GGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTA
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Sequence=6841;DNA;Homo sapiens
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AAAAAGAAGGTT

Sequence=6842;DNA;Homo sapiens
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TABLE 2
1071/3461

Sequence=6843;DNA;Homo sapiens
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TGAAGGGCCGCTAGAGTGCAGATAACCAACCCATTCTACCTAACTCAGGTTGAGATTGCT
TTAGAACCTATCATTGGCTTTAAAATGGTCCACAAAAAAACACCTCATGGTCACACTTAA
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CGAGCCGGGAGCATAAAGTGTAAAGCCTGGGG
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AGGAATGCGAATGATGATAAGGCTTTTAGAGTTAGATAAGAGAGAGGGCGCTCTAGAACT
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Sequence=6846;DNA;Homo sapiens
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AAATATGCGGACGCGTGGGTCGAAGCTTGACCTGCCCGGGCGGCCGCTCTAGAACTAGTG
GATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGG
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TGGTCATAGCT
Sequence=6847;DNA;Homo sapiens
TACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTT
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AGAACAAATATCTGGCTTTTCCCTAAGCTTAATGATTTTCCATTTCACACAACTAAAATA
TAATAGCATTATTTTATAATCAAGTTTAACTGATGGTCTATGATAGTAGAGCGATTTAGT
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TCAAGCTAGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCA
Sequence=6848;DNA;Homo sapiens
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TACAGGGCAGAGGTATGTGTGCGAGCTCAGATACCTTAAATTCATATGCCTTTAATACAA
TCCAGGCAGATTTCTAAATGAGGGATGCTTCCCCACAAATGGAGAGTGAAAGTGGGCCAG
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TTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCA
CAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAG
TGA
Sequence=6849;DNA;Homo sapiens
GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCTTCGACCCACG

TABLE 2
1072/3461

CGTCCGCTTTCTTTTGTTGTTAAGGGCCCATGACCTGCAGTTTCCCTAACATTCATTTTT
ATACAGGGCAGAGGTATGTGTGCGAGCTCAGATACCTTAAATTCATATGCCTTTAATACA
ATCCAGGCAGATTTCTAAATGAGGGATGCTTCCCCACAAATGGAGAGTGAAAGTGGGCCA
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Sequence=6850;DNA;Homo sapiens
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AACAAATAGAAACTGACTAAAGAAACATTAGATCAGTGGTTCTCAGAGTATTGATATCTG
GGAGTCCCAGCAACAGTCTGAGGAGGTTCATGAGTTCAGAATATTTTGATAATAACACTA
AGATGGTATTTACTCTTCTAACTGGGTAGATATTTGCACTGGTCGGCCGCTCTAGAACTA
GTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGG
GGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAA
TCATGGTCATAGCTTGTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATA
CGAGCCGGGAGCAT

Sequence=6851;DNA;Homo sapiens
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AAAGAACCCTCCAGGAGCCCTCAGCGTAGTAGGGGGTTGGTGTTGGAGGGTGGAGGAATG
GAAAAGGCCCTGAAATGCAGGCAGAGAAATGATGAAACAATTCAGGGGCTGTGGTGAGGT
TAAATGAATATCTTTACAGCAGCCTCGAAGACTGATCAGGTTACTATACCCTCTCTTCTG
TCCACGTGCATTTCAAAAACCTCGGCCGGTCTAGAACTAGTGGATCCCCCGGGCTGTAGG
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TGTTCCCTTTAGTGAGG

Sequence=6852;DNA;Homo sapiens
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TATGTGGTATTAGGCTTAGAACTATAACACAGGAAGTTTTTAGAGTATGTCCACTCTGGT
TTACTCCTTTGTAAGTATTAATACCTGATAATTTACATCCTACAGCCCTGCCTTTTTTTT
TTTTTCAAGTTTGTCCCAGCAAGTCTTGGCCCTTTGCATTTTCTTAATACATTTTAGTAC
CTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAA
GCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGT
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AT

Sequence=6853;DNA;Homo sapiens
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GTAACCCATGTAGCAACAGAAACCCTTAGCTAACTGCCGTAATTTAAGGCAATTAGGAGC
CATTCATCATCCAGATGGCTATTGGCTCTAATCGTTACTGGCTGAAGGAACTATATATAG
CAGCTACCTTTCCGCTCCATTCCCAGGCCTTGTTCCTGTCTTCTGGTTGCCAGTTCTGCA
CTCACTCATTCCGGACGCGTGGGTCGAAGACCTCGGCCGCTCTAGAACTAGTGGATCCCC
CGGGCTGCAGGAATTCGATATCAA

Sequence=6854;DNA;Homo sapiens
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AGGAAATATGCCTAATAAGAGATGATAGTTTTAGCAATAAATGAGCATTAGAACTATTAT
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Sequence=6855;DNA;Homo sapiens
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AGTGCTCATTATCCCACTAGATCCCACAAAGGGCAAACTCAAAGATGAAACAAAGGCAAC
GCCATCAATAACCACCATATTCCACAGGCTTTCTCCCCTAGGACGTACCTCGGCCGCTCT
AGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGAC
CTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGC

TABLE 2
1073/3461

Sequence=6856;DNA;Homo sapiens
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ATGACTCAAACTAAGGTATATTTGGTTAGATCTAGGTGAGTTCTACTTTAGAGGAAATCC
TGGTAACTGTTGTTTGTTTGTAAGTTATAGCTGTAATTAATTTTCCCTGTATTCAAAGCC
CCCAAACCCTGCATTCAGATACTATGCATTTAGACTTCCTTAGGCAAAGTCAAGGCAACA
AGCTGATGAT
Sequence=6857;DNA;Homo sapiens
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AAGGGAATTGTAAGATACAGCCTGCTTAAGGAGGTCTGCAGACAGATGCACCTAAGATTT
CAGCTGTTTTAGGTCACTTTTCTCAAAATATTTATTATCTGGCAATGGGGATGGGAGTGG
GGAACACCTCTCTGTGAGGCAAATGGTATCTCAACAAATACCGACTTTTCAAGGAAGAAA
GCTCTCCACTTCTCTCATAAACTTATATACTACCTTAAACAGTATGCAGTATTCGCGGAC
GCGTGGGTCGAAGCTTGACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGGATCCCCCGGG
CTGCAGGAATTCGATATCAAGCTTATCG
Sequence=6858;DNA;Homo sapiens
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AGTTAGCAGCGTAGTGGTCCCACTGCAGCAAAAGTTTGAAATTCATTTTCTTCAGGAAAA
TACCCAGCCAGTCCCTCTCAGTGGAAACCCTGGTTATGTCGTGGGGCTCCCATTAGCTGC
TGGATTCCAGCCTCATAAGGGTGGAGCTCTCCCGTGTCAGCTCGTAGCACAGAAGGTGAA
GAGCCTGCTGTGGGGCCAGTGCTTCCCAGATTACGTGGCCCCTTTTGGAAATTCCCAGGC
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TTCCT
Sequence=6859;DNA;Homo sapiens
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Sequence=6860;DNA;Homo sapiens
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Sequence=6861;DNA;Homo sapiens
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CGGAGCAT
Sequence=6862;DNA;Homo sapiens
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TABLE 2
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AAAATTCAATCAATTCATAAAAGTCCAAAGCAAAAAAAACAAATCTACTGACATCTCTTG
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TTCGATATCAAGCTTATCGATACCGTCGA

Sequence=6863;DNA;Homo sapiens

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CTGACTTGAAACCATTAGCGCTAACTTGCTCTGTTTTGAGAAAAACTTTCCAAACTTTTG
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GTCTCTGTGATAAAAAAAAAATGAAATATTTTCTTATTGAATTAATATTTTTGTCTTGAA
GCATTTTCTAGTGATAGAATGTATTTGTCTTTTTTTCCTGGTGGTACCTCGGCCGCTCTAG
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Sequence=6864;DNA;Homo sapiens

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CTTTGGGAAGTTGTTGTGTTAAATCCCCAACACACTCTCGTGTTTTCTTAGGACTTGCCT
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GCAGGAATTCGATATCAAGCTTA

Sequence=6865;DNA;Homo sapiens

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CTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACC
CAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCT
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Sequence=6866;DNA;Homo sapiens

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GAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTT
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Sequence=6867;DNA;Homo sapiens

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GCAAAGTGGGAAGCCTCCCTACTCCTGAGACAGTGATGGCTCAAATCCAGGCCAACCTGG
AACATGATCCTCAACTTCTCTAAGTTCACCTTTCCCAGGTGTGAAATGGGTTGTTCTGGG
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Sequence=6868;DNA;Homo sapiens

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TABLE 2
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TGGCTTATCACCATCCCTCCTTGGTGCTGTTTTTGCAACAGTGAGTGATTTCTTGTGAGA
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AAGCTGATGCCAGCCCTATGCTTACTGCA
Sequence=6869;DNA;Homo sapiens
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TTTCCATTCCTCCACCCTCCAACACCAACCCCCTACTACGCTGAGGGCTCCTGGAGGGTT
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Sequence=6870;DNA;Homo sapiens
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Sequence=6872;DNA;Homo sapiens
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Sequence=6873;DNA;Homo sapiens
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Sequence=6874;DNA;Homo sapiens
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Sequence=6875;DNA;Homo sapiens
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TABLE 2
1076/3461

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Sequence=6876;DNA;Homo sapiens
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ATTTCAGGTGGTCAGCAATTACACATGGCTAGAACTAAGAGCAATCAGTTTTCTTCCACA
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Sequence=6877;DNA;Homo sapiens
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GCCGG
Sequence=6878;DNA;Homo sapiens
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Sequence=6879;DNA;Homo sapiens
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Sequence=6880;DNA;Homo sapiens
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Sequence=6881;DNA;Homo sapiens
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TABLE 2
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GGTCTTAAAGTTTCACCTAAGAAACTGCCCAGGTGGACAAGAAGAAAGGGTGTTCCAAGT
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TABLE 2
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TABLE 2
1079/3461

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TABLE 2
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TABLE 2
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TABLE 2
1082/3461

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CAGAGAACTATACTGAGTGAAGGAAGAAAAATCCCCAAAGATTACACACTGTATGTCATT
TATATAACATTCTTGAAATGACACAATCACAGAAATAGAGAATACTGGTCACTATGCATT
AAGGAAGGTGTGGAAGGATGTAGTGATGGGAGGAAATGTGTATGGCTGTAACAGGGCAAC
AGAGGCATCATTGTGATGATGGAAGCGATCTGTATCTTGCGTTTTTGAATGTCATTATCC
TGGTTGTGATATTGACTG
Sequence=6919;DNA;Homo sapiens
TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGTTAAAGGAATAATCTGCAGA
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ACTGGATCAGAATGGTCCAAGGACTGTTAAACAGAGGAAGTGTTTACATTTTGAAAACTT
GCGGACGCGTGGGTCGAAGCTTGTACACCTAGGCCGCTCTAGAACTAGTGGATCCCCCGT
GCTGCAGGAATTCCATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTAC
CCAACTTTTGTTATCTTTACTGAGGGTCAATTGCGCGCTTGGCGTAATCATGGTCATAGC
TGTTTACTGTGGGAAAATGGCATGCGCTCACAATTCCACACAACATACGATCCGTGAGCA
TAAAGTGTAAAGCC
Sequence=6920;DNA;Homo sapiens
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TABLE 2
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ACATCTTGATTTACAAGGGACAAAATGATGCAAATTATATGCTGTCCAACCTACTGGTGA
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CTGCAGGAATTCGATATCAATCTTATCGATACCGTCCACCTCGAGGGGGGGCCCGGTACC
CAACTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCCTAATCATGGTCATAGCT
GTTTACTGTGTGAAATTGGTATGCGCTCACAATTGCACACAACATACGATCCGGGAGCAT
AAAGTGTAAAGCCTGTGGTGCCTAATGAGTGAGC

Sequence=6921;DNA;Homo sapiens
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TTAGGAGGCAGGCCTCTCCCTTTCCTACCCTCCCACCCGAAGGTGAGTCACTAGAGTGTT
ACAAGCTTACTGGCAGGGAACACTACAAATTAACAAACAGTAAGTTACCAAAAGGGGATA
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TGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAA

Sequence=6922;DNA;Homo sapiens
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AAAATGAACATGTAAGAAAAAGCAGTTTTCATTGTGCTAATTATTGCAGGCCTTCATGCA
CGTAAACCTCAACAAAATGTGTGCCAACAATATACAAATTTCCATATAAACAAAGTCATT
GATCACTAACAAAATATAAACATGGTTTCTTTTATATTAGATTTTTTTTAAAAAAAAGCT
ATTTACCAGCAAGAAAAAACAAGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCC
CCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCC
GGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCG

Sequence=6923;DNA;Homo sapiens
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CCGCATTTATTAAGGCTTGTATATGTTCAAGATCCAGTGAAGACTGTCTTGGGCGTGTAT
AATTGATCTTAACCACAAGGCTGAGAAGTTATGTGCAGGGCTTATGATGCTACTTCCAAA
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GAGGTGTTTTTTTGTGGACCATTTTAAAGCCAATGATAGGTTCTAAAGCAATCTCAACCT
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CTGCATTTTTCACTGTATTTCTCATGCCAAAACTTGGGCTTCTCCACCAGTCTGCACACG
TTCATGCTCTCAATTCTCACAGCCATCTATTTCATTCTCCACTAAACTGTTAGAGGGATT
TCTGTAGAAATTAAAGAAATTCCTATCACTCCTAAAAAAAAAAAAAAAAAAGTGCGGCCGC
TCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTC
GACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCG
CTTGGCGTAATCATGGT

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GATCCAGTTCACCAGTAGGTTGGACAGCATATAATTTGCATCATTTTGTCCCTTGTAAAT
CAAGATGTTCTGCAGATTATTCCTTTAACGGCCGCTCTAGAACTAGTGGATCCCCCGGGC
TGCAGGAATTCGATATCAAGCTTATCGATACCGCCGACCTCGAGGGGGGGCCCGGTACCC
AGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTG
TTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATA
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Sequence=6926;DNA;Homo sapiens
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TABLE 2
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GTCACTAGGCAGGAACATTAGACTCCAAAAGCAGAGAAATGCTTAATTTTTCTTCTACCT
GTTTCACCACATTCATGTAGAACTGTAGTAAAAAAGATGGTGAATCAGGCTGAATCAATC
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GGTAGTGTCATTATGACATTCCATGAAAATGAAGAAAATCTTTCAGGAAAAATTAAGAAA
ATAAAAATGTTTACTAAAGAA

Sequence=6927;DNA;Homo sapiens
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TCTTTTCTTTTACTGTTAATATCCTTATTCTCTATTTTACCAGTGGAGAATGTTTAGTAT
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CTTTCCTCATCAGCAAGTTGGTGTGGCAATGGATCATAATAGGTTGCTGGGAGGATGAAG
TGAGCGGACGCGTGGGTCGAAGCTTGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCG
GGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTA
CCCAGC

Sequence=6928;DNA;Homo sapiens
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GTTGTTGTTATTTCAGTCTTTTTCTTATTGGGTTGACCAGACTTGGTAAAATCTGTAAGA
AAGTTCCATAATTATGGGGAAGATTTCCTCTGAATTGGCTAAATTCCTGTAGCTGCAAAA
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TCGCTAACAAGCTTATCGATACCGCCGACCACTATGGGGGGCCC

Sequence=6929;DNA;Homo sapiens
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AAGAGCTAATCTGTGATTTCTTAACTTGAGAAAATAATAATAATAACCACCACTGGAACC
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AAAAAAAAAAAAGTGACCTGCCCGGGGCGGCCGGACGGCCGGGCAGGTCG

Sequence=6930;DNA;Homo sapiens
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ATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCT
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GGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCAC

Sequence=6932;DNA;Homo sapiens
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TCTTCACTAAAATAGAAGCAATTCCATAGGTACCATAAACCTATTTTAGGTACCACAAGG
TGTCTTTTTTACACAGCTCATTTGAATACAGGTGTTCTGAGAAGGGGTTTCTATTTTAAAA
TTACCATATCAAAATAAATGTGCCTTATTTTTTTATAAGTCTTGTTAAATCAGTGTCCAT
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TABLE 2
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C
Sequence=6933;DNA;Homo sapiens
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GGCCATCAGAAGGAAGCCTGGACAGGTCCCTTGTTTCAAAGGTATGACACAAGGTAACCC
GTAAGCCAAGGCACCCAGACCAGTTTCCATACATAGAAAGTTACAGCTGCTTTTATACCC
CCTTGCCCCGCCAACGTAGTTAAGAGAACAGCAGCATAAGCGGCTGGCAGAGGCAAGGAA
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AGGGTCTTAATAGCAAAG
Sequence=6934;DNA;Homo sapiens
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GTGGGTCTAAGCTTGACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTG
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TABLE 2
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GGCATAAAAATTCAATCAATTCATAAAAGTCCAAAGCAAAAAAAAACAAATCTACTGACAT
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Sequence=6947;DNA;Homo sapiens
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TABLE 2
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CAACACATTTACACTTGGATAAACTATCACCTTGAAGATTTACTTTGTATACTTCAAAAG
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TATGACACTGACATTGAAGGTGAAAGGAGAATCCAGTTCACATTAGCCAGGGTCTCAGGG
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Sequence=6956;DNA;Homo sapiens
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Sequence=6957;DNA;Homo sapiens
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Sequence=6959;DNA;Homo sapiens
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AAAGGATCAAAGCTGG

Sequence=6960;DNA;Homo sapiens
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TABLE 2
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TTTACTGTTAATATCCTTATTCTCTATTTTACCAGTGGAGAATGTTTAGTATTAATTTCC
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TABLE 2
1090/3461

Sequence=6968;DNA;Homo sapiens
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TAAAAAAAAAAAAAAAAAAGTGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGG
AATTCGATATCAAGCTTATCGATACCGTCGACCTC
Sequence=6969;DNA;Homo sapiens
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CAGATGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATC
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TABLE 2
1091/3461

CAGTAATTTCCTACTTG
Sequence=6975;DNA;Homo sapiens
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TABLE 2
1092/3461

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Sequence=6987;DNA;Homo sapiens
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TABLE 2

1093/3461

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Sequence=6988;DNA;Homo sapiens

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Sequence=6989;DNA;Homo sapiens

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Sequence=6991;DNA;Homo sapiens

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Sequence=6992;DNA;Homo sapiens

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CAGGCCCTCACCACCACGCCCAGCTAATTTTTGTATTTAGTAAAGATGGGGTTTCACTGT
GTTGGCCAGGCTGGTCTCGATCTTTTGACCTTGAAACTTTCACATAAACTTTCACATTTC
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TABLE 2

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TGTATGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATT
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CCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGC

Sequence=6993;DNA;Homo sapiens

ACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACATG
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CAGAGCTGCAGATCTGGGCTGGGCTGTTGGCTAAAGTGCTCTTCACAGACACCTCATTCG
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TTCTCCTTACCCCGGGAGTCAGTGGGTGTGTGTTCCCAGGTGGACTTAACCATTCTTCTC
CTTTATGATCCTTTCCCTTGGGTGGACAAGTGTGATTTGGTTGTAAGGCCATTTTTCAAG
TTGCCTATACATTGATAAAAGAAATCCCACTAACGGAAGTAGACTGCATGCCAGATTTCA
GTGTCTTTCTCCAGGGGCCAAGGTTGGACCCAAAAGTGCATGGGGTGCTTGGTGTCGTTC
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Sequence=6994;DNA;Homo sapiens

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TCTTGGAGCCTGAGGGGCGCTGGAGGTGAGACCTGGAGGTGAGCAGGAGTTAACTAGGAT
GAGGGACGGGCGCAGCATACAGGAAAAGCTGCCTGGGGGAGAAAGGACCAACAGCAAAGA
CTGAGAAAAAAATGCTGTTGTGACCAGGGTTCAGAGCGGGCATGGAGGACTGAGGGTTCA
GAGCGGGCATGGAGGACTGAGGGTTCAGAGCGGGCATGGAGGACTGAGGGTTCAGAGCGG
GCATGGAGGACTGAGGGTTCAGAGCGGGCATGGAGGACTGAGGGTTCAGAGCGGGCATGG
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Sequence=6995;DNA;Homo sapiens

CGCGGTGGCGGCCGCCCGGGCAGGTACTAAGGACAAAAAGACATTTATTCTCTTTGACCC
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TCTCCACCTCCAGCTATTGCTTGGTTTCAGGTGACCACTCCCTTTCTCTTCTCAGGCCTA
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Sequence=6996;DNA;Homo sapiens

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Sequence=6997;DNA;Homo sapiens

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CCCAAAAATGTAGATGGCACCACGGAAGAGATAGTAGGCCACAGTGTTACTGGCTTCCCA
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TABLE 2
1095/3461

Sequence=6998;DNA;Homo sapiens
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AAGACTCCAAACAAAAATACATTTCTTTGAAACTAAATAGCTCTTAAGTAAGAAAAATTT
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CTAGGGGTCATAGAAGATACAGATTTTGACCTGCTTAATGTCAAGAGGTTGCACGGTTGA
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Sequence=6999;DNA;Homo sapiens
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Sequence=7000;DNA;Homo sapiens
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TABLE 2
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CCATCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGTGTGCACCTGTAATCCACT
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CT
Sequence=7004;DNA;Homo sapiens
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Sequence=7005;DNA;Homo sapiens
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Sequence=7010;DNA;Homo sapiens

TABLE 2
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ACTCCTAGGGGTGCCCAAGATTTGAGTGGCCACTTTCACCTCTGGAGGAAGTAATACCTA
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GGCCCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAG

Sequence=7011;DNA;Homo sapiens
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GACTTGAACAGCACCTTCATCAGCAGCAGATGTCAGATGGGAAG

Sequence=7012;DNA;Homo sapiens
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TAGTTGGGTGGAAATCACCTCGCATAGAAATAGACCTGGAGGGCCGGGCACGGTGGCTCA
CTCCTATAATCCCAGCACTTTGGGAGGCCCAGGTGGGTGGATCCCGAGGTCAGGAGTTCA
AGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAAAAAAAAAAAAAA

Sequence=7013;DNA;Homo sapiens
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AGCAAGGACTCAGTTCTCTGAAAATAGTGCCATTAAACATGTGCTCCCAGAAGAATAAAT
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CCTCCCCCTCTTTAAAAAA

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CTCCGCTGATGGCATAGTCAAACACCAAATTTTCTTGGAGATGATTCGGAAATGCTACAT
ATAGAAATGGATGGTGAGCTCTTACTGTGACTGTGCCCATAAGTAAGTCATCCTGGACCC
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Sequence=7015;DNA;Homo sapiens
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ACCCTGGCCAACGTAACAAGACTTCATTTTTACAATATTAATAATAAAAAAGGCCAGGT
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CT

TABLE 2
1098/3461

Sequence=7017;DNA;Homo sapiens
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CTGCCTCATCCTTCCGAGTAGCTGGGACTACGGGCAAGTGCCACCACACCCAGCTAATTT
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Sequence=7018;DNA;Homo sapiens
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Sequence=7019;DNA;Homo sapiens
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Sequence=7020;DNA;Homo sapiens
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Sequence=7023;DNA;Homo sapiens
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TABLE 2
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Sequence=7024;DNA;Homo sapiens
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GTCCTCTTCCCTTTGTCGGACCAAAGAAGTAAACACTGTGTGGAGAGGGACTGACGTGTT
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Sequence=7026;DNA;Homo sapiens
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2

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TABLE 2
1105/3461

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TABLE 2
1106/3461

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TABLE 2
1107/3461

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TABLE 2
1108/3461

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TABLE 2
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TABLE 2
1110/3461

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Sequence=7096;DNA;Homo sapiens
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Sequence=7097;DNA;Homo sapiens
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TABLE 2
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CTGCCTTGATCACTCTGTCCCGTCACTCTGCTATTTCACCTGTCAGTGAAATACCTGGTA
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Sequence=7098;DNA;Homo sapiens
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ATAACACAATGCCAAACTCTTATTTACGGAGGTCCTGGCGCATTGTCAGCTTTTGGTAAA
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Sequence=7099;DNA;Homo sapiens
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GAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGG
Sequence=7100;DNA;Homo sapiens
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AGGGTTGTTTATCCACCAGAAGGCACATGTGCTTGCCTGTGTCTTTTTTTGTTATTGTTTT
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Sequence=7101;DNA;Homo sapiens
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TAAATTTGACAGTCCAAAATGGCACTTATTGAGTGTCCGTGACAATACATGCTGACAAGC
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Sequence=7102;DNA;Homo sapiens
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AAAACAAAATGCAAGGGCAATCCAGTTTCTAATTCCTGTGCCAAAGCTGCTGTTCTTGAT
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CAGTTCCTCAAATACTATCCAATCA
Sequence=7104;DNA;Homo sapiens
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TABLE 2
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AATCAAAAGGTTCATTACTACAGGCATAGGTCTATAAATTACTACTGTATGGAATACTAT
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TGGATTAGGTATGATCATT

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ATCATTGCATTGATATTAGCACTGGCCATTGGTCTGGGCATTCAC

Sequence=7106;DNA;Homo sapiens
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GTCCATCCTGGAATCTGGCATTCAAGGGGCGCATTGTCTGTGGAGGATTTAAAAATAATA
AAACCAACTAAAGGCAGTCTGCTTTTTATGGTCACCAGGCGCCAGCAATTCTAAATTTCA
GTGATAAAATATTCCTCCTCACTGGACACGAGAAGCTGGCTTCTCCTATTCCCCAGTACC
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ATACCGTCGACCTTGAGGGGGG

Sequence=7107;DNA;Homo sapiens
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CGGCCAACGCGCGGTGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCAC
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CCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACT
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GGTCCCAGATGAGAAGAAGCTGGCTAAAGGGCCCTTGTCCCCTCTCAGACTCCTTCAGCG
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Sequence=7110;DNA;Homo sapiens
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TABLE 2

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GGCCTATAGCCTCAGTAGTTGACAAAACAACATATTAAAATTCCTCACTGATCACTAACA
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TCTCCAGTCCTTTAT
Sequence=7111;DNA;Homo sapiens
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Sequence=7112;DNA;Homo sapiens
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TABLE 2
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CAGCCTCCTGAGTAGCTGGGACTACAGGCACACGCCACCACGCCCAGCTAATTTTTGTTG
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Sequence=7118;DNA;Homo sapiens
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GTTTTT

Sequence=7120;DNA;Homo sapiens
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Sequence=7122;DNA;Homo sapiens
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TABLE 2
1115/3461

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TABLE 2
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CTTTCATATTTTTTTTACACTTTTCATTTCTTCTTATTTTAGGGTGCTGGATAGGGGCT
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TCTCCCTCCATCTCTTTCTGTTTCTTTGTCATTTTTCCCAGCTATCCTTTTTTCCTTGTC
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Sequence=7132;DNA;Homo sapiens
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CAGGGAGATAATCAACTTATCCCCCAAAAGATTTAAGCCTCTCATTTTGTTTAACCTTCA
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GGGTTAATTGCGCGCTTGGCGTAATCATG
Sequence=7133;DNA;Homo sapiens
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GCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGT
TCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATG
CCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGG
AGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCA
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GGAACAAAAGGAATA
Sequence=7134;DNA;Homo sapiens
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CTCTGCCACTGACCCCTGGCCTGCCTTCGCCTCCTCCTCTTCCTCCTCTACCTCCTCCCA
GGCGCATTACCGCCTCTCTGCCTTCGGCCAGCAGTTTCTATTTAATCTCACCGCCAATGC
CGGATTTATCGCTCCACTGTTCACTGTCACCCTCCTCGGGACGCCCGGGGTGAATCAAAC
CAAGTTTTATTCCGAAGAGGAAGCGGAACTCAAGCACTGTTTCTACAAAGGCTATGTCAA
TACCAACTCCGAGCACACGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTC
GATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGG
Sequence=7135;DNA;Homo sapiens
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GACCTCATGATCCACCCGCCTCGACCTCCCAAAGTGCTGGGATTACAGGCGTGAGCAAAT
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Sequence=7136;DNA;Homo sapiens
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Sequence=7137;DNA;Homo sapiens

TABLE 2
1117/3461

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CTTTTGATTCTCAAGGGATCCTTCACTGAGGGTGGACTTCAAATTAATAGGAAGCAGGAA
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Sequence=7138;DNA;Homo sapiens
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GCTTTCTACTATTCTTGTGACTTGGCCTCAACAAAATCTAAAGTGACTTGTTATTTGTGG
GTCAGCTTTGTCCCATCCTTACCAGTCATGGCTTTAGACAAAAGACTCAGCACCACTCAC
CCTCTGGGACAGTCTGACTGTGGTCTGAGGCCCCTGCTTAGATATTAGGCTTCAGCTCAG
TTCCCAAGTCTCGCTTCATGACTTT

Sequence=7139;DNA;Homo sapiens
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GGGTCAGCTTTGTCCCATCCTTACCAGTCATGGCTTTAGACAAAAGACTCAGCACCACTC
ACCCTCTGGGACAGTCTGACTGTGGTCTGAGGCCCCTGCTTAGATATTAGGCTTCAGCTC
AGTTCCCAAGTCTCGCTTCATGACTTTCTGTGTACCTGCCCG

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ATGCACCCCAGCGCCAGAGAGAATCAGGAAGGGGAAGGTGCCCTGAACCTCAGACAAGAA
CCCCTTCCAGAAACCACCACCAAAGCCATCACTGTGTTTCCACCCTCAGACCTGTGTCTC
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Sequence=7141;DNA;Homo sapiens
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CTCCACCTGTACCTAATAATTCC

Sequence=7143;DNA;Homo sapiens
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TABLE 2
1118/3461

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ACCTCCTTCTCAAAAAAAAAAA

Sequence=7145;DNA;Homo sapiens
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TGTGTGTGTGAGAGAGAGAGAAAAAAAAATAGATAAAGTTGGTGAGAAAAGGGGAGGCTG
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Sequence=7147;DNA;Homo sapiens
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CATCCTGGAATCTGGCATTCAAGGGGCGCATTGTCTGTGGAGGATTTAAAAATAATAAAA
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AAGAATCACAGGCCAGAAGAAGAAGCTGTAGCCTCGGGAATGGAAGAGCTCTCTGAAGGG
GAAAGGGGAGAACAGGAATGTCCCAGGAGCCAAGGCTCATCTATAAGGGACTTGCACATT
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TGAAAGTTAGGAGAGCGGGGAGCAAGCCTTTAGGTTTCACAAGGGAAGGAGGGAAAGTAG
GTGTTAGGTGCTGCCAAGATCAGGGAAAATAAGCAGAAGTAANCCAGGCCATTTCAATTG
CNGTGNGCCAAGATCACG

Sequence=7149;DNA;Homo sapiens
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Sequence=7151;DNA;Homo sapiens

TABLE 2
1119/3461

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ATTTTAATGTAAACATTTCAGTGTAATCAATGAGAACTATCATTCTGCTTTAATCACCAT
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Sequence=7152;DNA;Homo sapiens
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Sequence=7153;DNA;Homo sapiens
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CCGGTACCAACAATAAGGGAAAAACAACGGCCTTTTTTCAGAAGGAAACANATCCGCCAAA
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GATAGCATAATTATTTACATTAAAGATCCAAGAGACTCAGACCTAGTAAAAGATTTTGGC
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Sequence=7155;DNA;Homo sapiens
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CCCGCCCCCCCCAAAGGAGCCGGGAAACACACGGCCGGGAGCACACCCGAGCCACGGCCGC
GACTAGAAACGAAGAGGACTCCCCCCGGGACTGCCAGGAAAACCGACAAACAAGCTGAAA
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TABLE 2
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Sequence=7157;DNA;Homo sapiens
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TGGGGTTCTGGGGGTCTGTCTTCATAGTTTGGGGTAGCACTAAAATCCTGTGAGCCTTTC
TGGGCCTTGGTAACCTCCCCTGTAAGTTAGCTGTTAGATAATTCAGCTGGGTAGCATTTT
ATACCTGGATGATGTTCTAAAGTCCAGCCACACAAGGCCNAAGTCTGGCAGAGTGAGAAT
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Sequence=7158;DNA;Homo sapiens
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Sequence=7161;DNA;Homo sapiens
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Sequence=7163;DNA;Homo sapiens
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TABLE 2
1121/3461

CACCTGCTGCTCTTGTCTTCCTAAGAGACAGAGAGTGGGGCAGATGGAGGAGAAGAAAGT
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Sequence=7164;DNA;Homo sapiens
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Sequence=7166;DNA;Homo sapiens
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GTCATAGCTG
Sequence=7167;DNA;Homo sapiens
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Sequence=7169;DNA;Homo sapiens
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Sequence=7170;DNA;Homo sapiens

TABLE 2
1122/3461

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCG
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CTGAAATAGTCACCATGGGGGGAAAATGATCCGCCTGCTGTTGAAGCCCCCTTCTCATTCC
GATCGCTTTTTTGGCCTTGATGATTTGAAAATAAGTTCTGTTGCACCAGATGCAGATGCTG
TTGCTGCACACATCCTGTCACTGTTGCCATTGAAGTTTTTTCCA
Sequence=7171;DNA;Homo sapiens
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TGACCAATCTGTTGGCACAGTAACTGTTTATAAGCTAAATTTCTACATTTTGGCTACAAG
TATCCCAAATCCACCTTTTAAAAAATCCTAGGTAGATGCCATCTGGTGTTAATGATTTGC
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GACCAAGAGCTGAGGAAAAATGATTCACACTGTTAGTTGTTTTGTTGTTTTGCTCACGGG
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Sequence=7172;DNA;Homo sapiens
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AGGCATTGTTCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGA
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CAGAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACC
TGAATTTCACCATCACCAACCTACCATATTCCCAGGACAAAGCCCAGCCAGGCACCACCA
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GCATCAAGAGTTATTTTTCTGACT
Sequence=7173;DNA;Homo sapiens
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Sequence=7174;DNA;Homo sapiens
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Sequence=7176;DNA;Homo sapiens
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TABLE 2
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GCCGGACTCAGTGGCTCATGCCTGTAATCCCACCACTTTGGGAGGCTGAGGCAGATGGAT
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Sequence=7177;DNA;Homo sapiens
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Sequence=7178;DNA;Homo sapiens
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CCCCGGGC
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Sequence=7183;DNA;Homo sapiens

TABLE 2
1124/3461

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Sequence=7184;DNA;Homo sapiens
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GTGGCTCTTCTCCTGCCTTCAGTTCTTCCATTGCCTGCAGCATTTGAAAGA
Sequence=7185;DNA;Homo sapiens
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Sequence=7186;DNA;Homo sapiens
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TABLE 2
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CCCTGACCCCAAACAGCCATGGGCAGAAATCAGAAAACAGCTTCCTTCTGTCTGCTGCTC
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Sequence=7190;DNA;Homo sapiens
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Sequence=7191;DNA;Homo sapiens
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GTTGCTGCACAGATCCTGTCACTGC
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GTCTGATTGTGTGGGTGATTTGGGGAGATCTCTTCCTCTTCCGGAACCCCAAAAGGTTGG
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Sequence=7196;DNA;Homo sapiens

TABLE 2
1126/3461

ACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCTCCGGGCTGCAGGAATTCGATATCA
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CG

Sequence=7197;DNA;Homo sapiens
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TABLE 2
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CTGCTGCCCCATCCAATACAATACTGCCCACTGTGCATAGAAACCAGATTCCAAAGTTAG
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GATGCTGCATTCCCGGAAGGAGGGAAGATGAGAGTAGACAGC
Sequence=7202;DNA;Homo sapiens
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Sequence=7208;DNA;Homo sapiens

TABLE 2
1128/3461

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TABLE 2

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TABLE 2
1130/3461

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TABLE 2
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TABLE 2

1132/3461

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TABLE 2
1133/3461

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Sequence=7242;DNA;Homo sapiens
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Sequence=7243;DNA;Homo sapiens
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TABLE 2
1134/3461

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Sequence=7247;DNA;Homo sapiens
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TABLE 2
1135/3461

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Sequence=7254;DNA;Homo sapiens
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ACAGCATGGTATAC

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TCTCTGAACCACAGCCATGGCT

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TABLE 2
1136/3461

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TABLE 2
1137/3461

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TABLE 2
1138/3461

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Sequence=7274;DNA;Homo sapiens
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Sequence=7278;DNA;Homo sapiens
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GAGTGGAAGAAAAATGTTCCTGTGAGAAGAAACTGTCCAAAGAGTCTGAAGAGAAAAGGG
AACAGGGTGAATTTGAGGCCCTACAAGAAAAACAGGAGACCATTCAACAGGAGACGCCCA
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Sequence=7279;DNA;Homo sapiens
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CCCGCAGAAGGCGTTCCCTGGACAGAGAAGCGGGCGCGCGGGGGCGGGCGCGTGGGGCCT

TABLE 2

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TGCCGGAGAACCTGACTCTCCGCAGCAGCAGTGGAAGCCAGAGTGACGCGTTGTGTTGAA
CACCAGTTTTCTGGAGCGCTGTGTGTTCTCAACAGCTGAGCAGTCTGTTTCTCCAATCAG
GTTTCAAAGCCACTTCAACTGCACTGGCCCCTGTGGGTCACTGCTGCACCGCCCTGGCCC
ATGTGGGTCCCTGAGGAGCGACCTGCCGGGGCCACCTGGCTGGACGAAAAAGACACACTT
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AGACTAGGAGAAAATATGCATAAAAC

Sequence=7280;DNA;Homo sapiens

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GGACCGGGAGAGTTATGGCATTTATGAATGAAGAAGAGAAAGAGAATCACTCGGATGGGA
AAAGTTAACTGGATTGTTCCCACCTGCATGGATCACCGGGTAACTGCAGTGGGACCGAGG
GGGCGAGGCTGCGGGCTGGGGATGTGCGGGTTTCCTTGTGTTGCCACGAACCCAGAGAGG
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Sequence=7281;DNA;Homo sapiens

GCGTCCGGCTGTGATGAATGAGGTCTAGGAAATAATTTGCATGTGTCTTGGGGGACACAA
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TGGCCCCCGTAAGGTATGTAAGGCACCTGTGAGTGCCCAGTGAGTGCTGGTGAAAGGCCA
ACATGTACTAGTTATGTAAGTATTGGTGTCTGCTTTAAAAAAGGAGACCCAGACTTCACC
TGTCCTCTTTAAACATTTGAGAACAGTGTTACTCTGAGCAGTTGGGCCACCTTCACCTTA
TCCGACAGCTGACTGTTGGATGTGTCCATTGTCGCCAGTTTGGCTGTTGCCCGGACAGGA
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GTCTGGTCCTCC

Sequence=7282;DNA;Homo sapiens

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TGATAGACTCTGAGGATTATGTGAACAGGACATTTTTCATTTGTGAATTTAATGCTATAC
TGTCAAGGTACTTGCTTGTGTCTGAACTCTAGTGCACTTATGATTTTGTAGACCATGTGA
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Sequence=7283;DNA;Homo sapiens

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TTACCACCACCCGCCCCCCCCTTTGTCCAGCTGGGACACGGAATGGCCGCGGGCCTCCTC
CCCCTCCCCTCCAGCCTCTCCACCAGCCCCTCCAGTCAACCCTCATCGCCGTGCCCCCCC
AGAGCTAGAGAGATGGGGCCCCTGCGTGGCCCGAGGGGCAGAGCTGGGCGTCACTTCGCA
AGCGTCCTGCCCTGCCGGGGCGCGGGGGTGGGCTCTGGGGAAGCCGGTGCGCCCCCCACG
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GGGGGACCGCCGTTTGCACT

Sequence=7284;DNA;Homo sapiens

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AGTCCCCTCTGCTCCGTCAGCCAAGTTCCAAGAAGTTGAGCAGAGACCCTTTGGGAGCCT
GGCGGGGTGCAGCGGCCTCCCCTGCGGGGCCTGTCACCCGGCCGGCGCGTGCAAACGCCT
CTGGCGCCTCTCTGCGCGGAGGGAGATAAGCGTCTGAGCCAGGGAAAGCGCGGGC

Sequence=7285;DNA;Homo sapiens

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TABLE 2

1140/3461

CTTTGGACACAGATTCTGGAAAACAGAATTATTCTTCATAGGCTTTATCATCATGGGATT
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Sequence=7286;DNA;Homo sapiens

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Sequence=7287;DNA;Homo sapiens

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GCGTTCTGGGGTTGGCAGCCGAGAGGCCGCGGTCCCTGAGTGCCAGAGGTGGTGGTGTTG
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CGATTCCTGCCCCTGCAGTCACAGTGCCCTGAGGGGGCAGGGGACGCGGTGATGTACGCC
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ACCCTGGAGGATCATACCAAGCAGGCCTTTGGCATCATGAACGAGCTGCGGC

Sequence=7288;DNA;Homo sapiens

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Sequence=7289;DNA;Homo sapiens

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Sequence=7291;DNA;Homo sapiens

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TABLE 2
1141/3461

ATCCCAGCTCAAGGTGGTCAGAGCTAGACCTTCTTATTCTGTTGGGGACGGCGGGCCACG
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Sequence=7294;DNA;Homo sapiens
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Sequence=7297;DNA;Homo sapiens
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TABLE 2
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Sequence=7298;DNA;Homo sapiens
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AGCCCGC

Sequence=7302;DNA;Homo sapiens
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TABLE 2

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Sequence=7303;DNA;Homo sapiens
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GGCTGGGTCTTCGCCCAGGTGGCCGGCGCTTCAGGCACTACAAATACTGTGGCAGCATAT
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Sequence=7304;DNA;Homo sapiens
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Sequence=7306;DNA;Homo sapiens
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TABLE 2
1144/3461

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Sequence=7309;DNA;Homo sapiens
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Sequence=7310;DNA;Homo sapiens
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Sequence=7311;DNA;Homo sapiens
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Sequence=7312;DNA;Homo sapiens
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TABLE 2
1145/3461

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Sequence=7315;DNA;Homo sapiens
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TABLE 2
1146/3461

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Sequence=7321;DNA;Homo sapiens
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TABLE 2
1147/3461

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Sequence=7332;DNA;Homo sapiens

TABLE 2

1148/3461

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Sequence=7333;DNA;Homo sapiens

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Sequence=7334;DNA;Homo sapiens

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TABLE 2

1149/3461

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TABLE 2

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Sequence=7343;DNA;Homo sapiens
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Sequence=7344;DNA;Homo sapiens
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TABLE 2
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TABLE 2
1152/3461

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TABLE 2
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TABLE 2

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Sequence=7367;DNA;Homo sapiens

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TABLE 2
1155/3461

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Sequence=7376;DNA;Homo sapiens
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TABLE 2
1156/3461

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Sequence=7379;DNA;Homo sapiens
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TABLE 2
1157/3461

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TABLE 2
1158/3461

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TABLE 2
1159/3461

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TABLE 2
1160/3461

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TABLE 2
1161/3461

Sequence=7406;DNA;Homo sapiens
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TABLE 2
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TABLE 2

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TABLE 2
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TABLE 2
1165/3461

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TABLE 2

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Sequence=7440;DNA;Homo sapiens
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CACCCTTAATTCTTTATAATGAACCTTGAGAAATCAAGGCTTTAGAAAAATGCTGAGAGA
CAAGAAGCTTCTGAGCAGCAACACTGGATGCAGGAAAAAAAATGGAGTAATAAGTGTAAA
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Sequence=7441;DNA;Homo sapiens
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TACTGGCAGTTTCTGGGTGGTGCATACATCTAGTCTCCCTAGAAGAGCACAGTCCAGAAT
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TABLE 2

1167/3461

GCTAGGCACAGAAAGAACAGGCAGCGTATCCAGAAGGGGGCAGGGAATGGGTGAAGAGGT
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CTCCCGATTCTTGCGTTGTTGGCGTCGCTCCCGAAGCCGGGCCCGCTCCCGTTCCTCCTC
CTCTTCCCTCTCCAAAGCTCGGATGTGC

Sequence=7442;DNA;Homo sapiens

CCTTGGGAAAAGCGTCCCAGAGACGGGAAGAAATATGGTATAAGCGAGAAGGCCTCATAA
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GTTGTGGTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGGATCCCCGGGTACCGAG
CTCGAATTAATTCCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGC
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Sequence=7443;DNA;Homo sapiens

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CCCCATTTTATGGAGGACTGTCAGATCAATCTTTTAAAGATAAATTTTATAATGTTACTA
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ACTGTCTCACTCACTCTA

Sequence=7444;DNA;Homo sapiens

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Sequence=7447;DNA;Homo sapiens

TABLE 2
1168/3461

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TAAAAAAAAAAAAAAAAA
Sequence=7448;DNA;Homo sapiens
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Sequence=7449;DNA;Homo sapiens
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AAAATACTCAACA
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AGAAACGGTGTAGCGGAGGCAGGGGGAAGAGGAGTACAGAGAGTACACTGGGAAGGAAGA
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Sequence=7451;DNA;Homo sapiens
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TABLE 2
1169/3461

TGCTTTGTGAAGAATAGATTGAAAGGGTCAAAGGTGAGAGCCATCTCACATCCATGCAGG
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GAGTCG

Sequence=7453;DNA;Homo sapiens
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CCAGGAGTCAGCTTTGACACAACTG

Sequence=7454;DNA;Homo sapiens
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AGGGAAGTTTCAGGCAGATCTTGTATGCCTGGCCCTGGTGGCTGCTTTCATTTCCTTCCA
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TCGCCCTAACTCTGCCCTAGAAGACCTTTCCTTCCGTATCGTCAAGAAAACTGAAGTTGC
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GTAGCTGGCAATTGCATATATTTTCTTGATTAACATATTAGAGACTGCTTCCATCATCTT
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TCTGTATTTGTAAATTCTGTCTTTCAAAAGTT

Sequence=7456;DNA;Homo sapiens
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CTCCC

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TABLE 2
1170/3461

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GGGCGAC

Sequence=7459;DNA;Homo sapiens
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TABLE 2
1171/3461

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Sequence=7464;DNA;Homo sapiens
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Sequence=7468;DNA;Homo sapiens
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TABLE 2

1172/3461

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T

Sequence=7469;DNA;Homo sapiens

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TCATCATTATAATTGTTTTCTATGGGTTACTTATCAGTTAAGAATGCTTAATTCCTAGAT
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CCTGCTGAATTTTTCATTTGCCAACATCTTATTTCAGATTCTTTTAATCTGTGTCCAACA
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Sequence=7470;DNA;Homo sapiens

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ATTATTATTACTTAAAGATCT

Sequence=7471;DNA;Homo sapiens

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CATTAACTGTGTAGTTAGCATTTCTGGTGCTCTTCTTTCTTTTCTGTAGATCCATACTTC
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TCTGCTGGTGATGAATTCTTTCAGCTTTTGTAATTCTTTTGTCTTTGAAAGGTATTTTCC
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CGCGGTGGCTCACTCCTGTAATCCCAGCACTTTGGGAGTCTGAGGTGGGCAGAACACTTG
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Sequence=7472;DNA;Homo sapiens

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Sequence=7473;DNA;Homo sapiens

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TABLE 2
1173/3461

AGGTGAGGGAAGGGGGGAAGAAAAGAAAGGAGAGAAAAGAAGACAGAGAAAAAACAGGGA
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Sequence=7474;DNA;Homo sapiens

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TCCTATGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAAT
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TCCCTTT

Sequence=7475;DNA;Homo sapiens

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CTGCTGTGCTGTTTTAGAGCCCTGGGAGCGATCTATGTTTAACACCATCTTACTAACCAT
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Sequence=7476;DNA;Homo sapiens

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Sequence=7477;DNA;Homo sapiens

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Sequence=7478;DNA;Homo sapiens

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TABLE 2
1174/3461

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Sequence=7479;DNA;Homo sapiens
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Sequence=7480;DNA;Homo sapiens
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Sequence=7481;DNA;Homo sapiens
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Sequence=7483;DNA;Homo sapiens
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TABLE 2
1175/3461

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Sequence=7484;DNA;Homo sapiens
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Sequence=7489;DNA;Homo sapiens
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AGGCGCCACGAGACAGCCCGACAACCAGACCGCACGACACACCCAGGCACAGACCCGACC
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TABLE 2

1176/3461

AGGCGAGAGGCNCCACGNAAAAGGGGGCCACACGACCCCGGANAGAACAGGGANACACAG
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Sequence=7490;DNA;Homo sapiens

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GGGCCAC

Sequence=7491;DNA;Homo sapiens

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Sequence=7492;DNA;Homo sapiens

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Sequence=7493;DNA;Homo sapiens

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Sequence=7494;DNA;Homo sapiens

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TABLE 2
1177/3461

GAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACAAGCAGAT
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GGGGAATGAAGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATT
CCTCCACCAAGTTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAG
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GCC

Sequence=7495;DNA;Homo sapiens
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Sequence=7496;DNA;Homo sapiens
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Sequence=7497;DNA;Homo sapiens
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Sequence=7498;DNA;Homo sapiens
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TABLE 2
1178/3461

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TABLE 2
1179/3461

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TABLE 2
1180/3461

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TABLE 2
1181/3461

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TABLE 2
1182/3461

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TABLE 2
1183/3461

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Sequence=7530;DNA;Homo sapiens
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Sequence=7531;DNA;Homo sapiens
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Sequence=7532;DNA;Homo sapiens
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TABLE 2
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Sequence=7536;DNA;Homo sapiens

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TABLE 2
1185/3461

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TABLE 2
1186/3461

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Sequence=7547;DNA;Homo sapiens
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Sequence=7550;DNA;Homo sapiens
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TABLE 2
1187/3461

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Sequence=7557;DNA;Homo sapiens

TABLE 2
1188/3461

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AGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAG
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TABLE 2
1189/3461

GACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCTGAATTGCTGGGTTT
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Sequence=7563;DNA;Homo sapiens
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Sequence=7565;DNA;Homo sapiens
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TABLE 2
1190/3461

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Sequence=7570;DNA;Homo sapiens
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TABLE 2
1191/3461

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TABLE 2
1192/3461

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TABLE 2

1193/3461

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GAGGCTTTGCATG

Sequence=7592;DNA;Homo sapiens

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Sequence=7594;DNA;Homo sapiens

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TABLE 2
1194/3461

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Sequence=7601;DNA;Homo sapiens

TABLE 2
1195/3461

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Sequence=7602;DNA;Homo sapiens
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TABLE 2
1196/3461

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TABLE 2
1197/3461

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TABLE 2

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TABLE 2

1199/3461

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TABLE 2

1200/3461

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C

Sequence=7633;DNA;Homo sapiens

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ACA

Sequence=7634;DNA;Homo sapiens

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Sequence=7635;DNA;Homo sapiens

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Sequence=7636;DNA;Homo sapiens

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GCGTGAGCCACTTCTTCCGCGAACTGGCCGAGGAGAAGCGCGAGGGCTACGAGCGTCTCC
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Sequence=7637;DNA;Homo sapiens

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TAAACTTCAAGATAATATGGTAATTTGCATTGAACCGATGATTTTACAAAATTCTGCAAA
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TABLE 2
1201/3461

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Sequence=7639;DNA;Homo sapiens
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TABLE 2

1202/3461

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Sequence=7643;DNA;Homo sapiens

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Sequence=7644;DNA;Homo sapiens

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Sequence=7647;DNA;Homo sapiens

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TABLE 2

1203/3461

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Sequence=7649;DNA;Homo sapiens
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TABLE 2
1204/3461

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Sequence=7654;DNA;Homo sapiens
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Sequence=7656;DNA;Homo sapiens
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TABLE 2
1205/3461

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Sequence=7659;DNA;Homo sapiens
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TABLE 2
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Sequence=7666;DNA;Homo sapiens
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TABLE 2

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TABLE 2
1208/3461

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TABLE 2
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TABLE 2
1210/3461

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TABLE 2
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Sequence=7694;DNA;Homo sapiens
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Sequence=7695;DNA;Homo sapiens
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Sequence=7697;DNA;Homo sapiens

TABLE 2

1212/3461

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Sequence=7698;DNA;Homo sapiens

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Sequence=7699;DNA;Homo sapiens

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CGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGC
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CACACAACATACGAGCCGGGAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCT
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Sequence=7700;DNA;Homo sapiens

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Sequence=7701;DNA;Homo sapiens

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Sequence=7702;DNA;Homo sapiens

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TABLE 2

1213/3461

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Sequence=7703;DNA;Homo sapiens

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Sequence=7704;DNA;Homo sapiens

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Sequence=7705;DNA;Homo sapiens

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Sequence=7706;DNA;Homo sapiens

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Sequence=7707;DNA;Homo sapiens

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GGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATC
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TABLE 2

1214/3461

Sequence=7708;DNA;Homo sapiens
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TABLE 2
1215/3461

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TABLE 2
1216/3461

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Sequence=7720;DNA;Homo sapiens
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ACCCACGCGTCCGGCCACATTTTCAATTTAGCCATTTTTTCTCTTATTCACCTTTTTTCTGC
TAATTACTCTGTAATTCCACTAAGAAAAGTCAATAGATAATTCCAATAATGACTTCACTC
CTGAGAATTTTATTAGCTGCTAACGCTTGTCTCATCATAAGCACTCATATGTTCATTGAG
TAAATATTTATTGAGTATTTGCTATGGTCCAGGCACTGTGCTAAGTATTGAGGATAAAAT
GGTGATTGAAACATTTTCCCTTCTTGATTTTAACATCTACAAAATAAAAAGTATGTTAAT

TABLE 2

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AT
Sequence=7727;DNA;Homo sapiens
ATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTA
ATCACACAACACTTTCTTTTCCAACTGCTGCAAAGTGCATCTACAATATGCTATTACAGA
TCCACTTTTAAAAGGTTTCCTGTGACATTACAGCAAGCCTCTTTTTTCAAACAGAGGAAT
AATCCCAAATTCTTCCTCAAATAAACTCCATTCCAGTAAATGGTAAATACATAAAAAATT
ACAGTAAGCCAGACACTTAAAAGGACAGCCAAGAAGTCTTCCAACAGTTTATTAGAAAGA
ATGTAGACATTTAAAAAAATCCCCACTGTCATGAACATAAATTGAGGTTTTCAGCCCGGG
TATAAGCTGAATCAAAAAAAGGAAATAAAAAATCCAATAGTGTATTAAACATTTTTCACT
CATTTGCCATACTGACAGTGCAAATACAAATCTGGACTAAATGTACCTTCGGCCGCTCTA
GNAACTAGTGGATCCCCCGGGCT
Sequence=7728;DNA;Homo sapiens
ATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAATTACCCACCACTGGATTTGACTCAG
AGAGGACCCCCAGAGGGTGTCTCCATCTTCCCTATTTATTTTCAGCCCTTGAGGGCTTCA
TTGTAGATCAAAGCCAAGGCCCCCAGGAAGGTGACATACTCCTGGAAGTTCACCTCCTGG
TCCTTGTTCCGGTCCAAGTCTTCCATCAGCCTTGCAATTTCAGCATCCTGCAGCTTCGAG
CCAATGGTGAGCTCCTTCTGGATCAGCTCCTTCAGCTCCTTCTTGCTCAGGGTGTGCTTG
TCACCCTCCCTGCCGGAGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGG
GCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTAC
CCAGCTTTTGTTCCCTTTAGTGAGGGGTAAATTGCGCGCTTGGC
Sequence=7729;DNA;Homo sapiens
TACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCCAGGGAT
GGGAGGCACAAGTTGTGATTGGGCAAAGTTTATTTTCTATGTCAGCCTGTCAGTCCACTG
CCCCATTTTGCAAGACTTTTTTTTAGCCTTGACAAAATGTCTCAGTTAAGTATAAAAGTT
TTTCCACTACTTAGTCCAAAAAAAACTATTAAATCTTAATGAAATAGCCACTCTCAAAAA
AAAAAAAAAAAAAAAAAGTGCGGCCGGCCGCCCGGGCAGGTCTTCGACCCACGCGTCCGTC
TTTTTCTTCCCAAACATAGACTTGCAAGACATGGCCTGTATGAGAAGAAAAAGACCTCAA
GAAAGCAACGAAAGGAACGCAAGAACAGAATGAAGAAAGTCAGGGGGACTGCAAAGGCCA
ATGTTGGTGCTGGCAAAAAGTGAGCTGGAGATTGGAT
Sequence=7730;DNA;Homo sapiens
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CAGTCAAATCCCTTCTCGCCCCCATGGATGACCCCCCTCAGATAGGGGTCCCTTGACCAC
CATCCTCCGTGAAATCAATATCCCGCACAAGAGTGCTTATAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAGTGCGGCCTCGAGCGGCCGCCCGGGCAGGTACATCTATTTTGGATTGT
ATATTGTGTTTGTGTATTTACGCTTTGATTCATAGTAACTTCTTATGGAATTGATTTGCA
TTGAACACAAACTGTAAATAAAAAGAAATGGCTGAAAGAGCTCAAAAAAAAAAAAAAAAA
AAAAAGTGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAG
CTTATCGATACCGCCGACCTCAAGGGGGGGCC
Sequence=7731;DNA;Homo sapiens
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GCAAGCATTACTGCTTTCCACAAAAACTGCTGAATAGGAGTTCCGTCCCTGCCAAGATCA
GTGTTTAAGAGATACTTTATGATGCTGATAAGTATTATTGGTGGTGGTGGTGTTCAGAAA
GTTTGTCACTCATGCAGATGTCTGAAATCTTGTTCCGAATCCATGGAACATAGGGTGGAG
GCCAGCTCCCCCTTTTTTTTAGATGATCACATAGTTCTGAGCAGAGATGTGGTCCTCACCC
TGCAGTTCCTGCAGGAGCTGCTGCTGCTGGGATGGCTGCTGGACAGAGGCCTCCATGGAG
CCCGCTGTGCTGGTGTCATCAGAAAGAGA
Sequence=7732;DNA;Homo sapiens
CGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACC
CACGCGTCCGATTTTTTTAAAGTATTTTCTAGTCTTTTCTCTCTCTGTGGAATGGTGAAA
GAGAGATGCCGTGTTTTGAAAGTAAGATGATGAAATGAATTTTTAATTCAAGAAACATTC
AGAAACATAGGAATTAAAACTTAGAGAAATGATCTAATTTCCCTGTTCACACAAACTTTA
CACTTTAATCTGATGATTGGATATTTTATTTTAGTGAAACATCATCTTGTTAGCTAACTT
TAAAAAATGGATGTAGAATGATTAAAGGTTGGTATGATTTTTTTTTTAATGTATCAGTTTG
AACCTAGAATATTGAATTAAAATGCTGTCTCAGTATTTTAAAAGCAAAAAAGGAATGGAG

TABLE 2
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GAAAATTGCATCTTAGACCATTTTTATATGCAGTGTACCTGCCCGGGC
Sequence=7733;DNA;Homo sapiens
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CAGGGTGAGAGGGAGTCTATTGGAGCCCTTGGGAACTTCTGGATCAAATTGGACCTGAAT
TGAGATCTATTTCTCAGCTTTCACTTATGTGAGCCAATAAATTCCTTTTTTGTTGAAGGC
AAAAAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGCTCTAGAACTAGTGGATCCCCCGGG
CTGCAGGAATTCGATATCAAGCTTATCGATACCGTCAACCTCGAGGGGGGGCCCGGAACC
CAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCT
GTTTCCTGCGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCAT
AAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCG
Sequence=7734;DNA;Homo sapiens
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AGAGAGATAAAAAAAAAAAGACCCATAAGATTTAAATTGACAAATGTAAAATGATTGGCTA
CAATGTAAAAATACATTTCCCAGCCCCCAAACAAAACACAAGTATAGTAATTATAAAATT
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CGATATCAAGCTTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGT
TCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTG
TGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAA
Sequence=7735;DNA;Homo sapiens
TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCCTAGCTTG
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CAGGCAAAACACATCCCATTGTCATTTTTTTTGTAAATAAAAGTTGTATTTGGAACATGGC
CACTCTCATTTGTTTTCTATTATTTATGGCTGCTTTCACTTACAACCTGAGTGGTTGCCA
CAGAAACTGTATGGCCTGCAAAGTCTAAAATATTTACTATGTAGCTTTTTCTTTTCTTTT
TGGAGACAGTGTGCCACTCTATTGCCCAGGCTGGAGTGCGGTGGTGTGATCATGGCTTAT
TGCAGCCTCAAACTCCTGGGCTTAAGC
Sequence=7736;DNA;Homo sapiens
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AATGACATTTTTGATAAATTATGTTTGTACCTGCCCGGGCG
Sequence=7737;DNA;Homo sapiens
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GAAATAGATCTCAATTCAGGTCCAATTTGATCCAGAAGTTCCCAAGGGCTCCAATAGACT
CCCTCTCACCCTGGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTG
CAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCGCCGGTACCCA
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AGTGTAAAGCCTGGGGTGCCTAAT
Sequence=7738;DNA;Homo sapiens
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CTGGACTAACCTACTGAAGATACGTGGTTTTACCAACAGCCAGCACCAATAGGAAGATAT
GAATGAAGCCATCTGAGACCAGCCATCTGGCAGCCAAACTGCCAACTGACTGCAAATGCA
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TTTGCTCAGATATAGCAGGCTTAATGGTTCTATATTTTCAAAAGTTTTTAAGAATGGTTT
Sequence=7739;DNA;Homo sapiens
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TABLE 2
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TAACCCGTAAGCCAAGGCACCCAGACCAGTTTTTATACATAGAAAGTTACAGCTGCTTTT
ATACCCCCTTGCCCCGCCAACGTAGTTAAGAGAACAGCAGCATAAGCGGCTGGCAGAGGC
AAGGAAAGACCAGTAGAGAGAAAAAAAGGCCATCTATACCAATTCTAAGTTAATTTAGAC
TAAACAAGGTCTTAATAGCAAAGGATAAATGAAATCCCAAACTTACAAGGTTTTTTAACA
Sequence=7740;DNA;Homo sapiens
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GTCCGGGTTTCATGAATGGAAACCTAAGTAAAACTAAGCTCATTAGTGACAGACTTGTTT
TCTTCTTGTTATTCCTCCAGCAACTCCCTCACCACCACGCCTCCCTGCCTACCATCCCCG
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CCGGGCAGGTGAGAAAACAGACCATATTTACTCACATAATTCGCCTTCTACCTTTCACCT
GCTTATGTAATAATTTAACACTGTAGAGGGGACATGGAGGTGACGGAGTATTTAGTGGGT
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AGGGACAGTGGAAGTGTC
Sequence=7741;DNA;Homo sapiens
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GGATAATGAGGCTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGTGCGG
CCGCTCTAAAACTAGTGGAACCCCCGGGCTGCAGGAATACGATATCAAGCTTATCGATAC
CGCCAACCTTGAGGGGGGGCCCGGTACCCAGATATTGTTCCCTTTAGAGAGGGATAATTG
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AATTCCACACAACAT
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TAAGGTGATTTGCCCTCATTTAACGGTAGCTGGAGTAAGTCAAACCACAGAGAGCCTTTA
CAAAGACTA
Sequence=7744;DNA;Homo sapiens
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CATAAATGATCACTACTGCTCTCTCCCTAATTTTTGAAAAAGGAGTTTTGAGAATAAAAC
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Sequence=7745;DNA;Homo sapiens
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CTCTAAGTGCTCCAAGGCAGCAGAAAGGCCCAGTGCATTGAGGCTGGAAGCAGGAGCAGA
GACTCTGGGATATAGTGCGAAAGTCTCTTTCCCCTGTAGTTGGGCTAATCTGGAAAAACT
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TTTACAGTATTCTTGAAATGAACCCAATTAAACACATAG

TABLE 2
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Sequence=7746;DNA;Homo sapiens
TACGACTCACTATAGGGCGAATTGGAGCTCCACGCGGTGGCGGCCGAGGTACTTTAATCC
CGTCTTACAGAAGAGAAAACTGAGATTTAGCAACATAAAAGTATTTCCCGTAAGTAAACA
GTAGAGCCAAGATCTTGACCTACGCCATCTGATACCTGAGCCCATGCTATAAAAGAGGAG
CATTAGAAATATTTGAAAGATAGAAATGAGAACTAGTCAATATTTATTTTGCTTAGCACT
GTATTCAGTATTATGGCATCTTAAAGTAGTTAAGACTCAATATTTCATCAAAAAAGTTTA
AAATCTAATCAGAGAATCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTC
GATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCC
Sequence=7747;DNA;Homo sapiens
CGCGCGTATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTT
TGAGTCGACCCACGCGTCCGGATTGATAGCTCTTTCTCGATTCCGTGGGTGGTGGTGCAT
GGCCGTTCTTAGTTGGTGGAGCGATTTGTCTGGTTAATTCCGATAACGAACGAGACTCTG
GCATGCTAACTAGTTACGCGGACCTGCCCGGGCGGCCGGCCGCCCGGGCAGGTGCAAGAT
TCCTGATCGGTATACAGTGATGTATTTACTAAACAGAGACCTGTGCAGAAATTACATACT
ATCCATCTAGATAGGTTGTTACACTTTTGCCTATTGATGGAATAGTTCCATTTATCAAGT
TTTATACATCAAAAAGCTTTTGAAGTTCACCAGACTGTCCATT
Sequence=7748;DNA;Homo sapiens
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AATCCTGTTTTGCAGAATACTGCACGACGGAGATTGAGAAGTGAGAGCTCTTATGACATA
GATAACATTGTGATTCCCATGTCATTAGTAGCCCCAGCTAAATTAGAGAAACTCCAATAT
AAG
Sequence=7749;DNA;Homo sapiens
CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGATTCTCTGATTAGATTTT
AAACTTTTTTGATGAAATATTGAGTCTTAACTACTTTAAGATGCCATAATACTGAATACA
GTGCTAAGCAAAATAAATATTGACTAGTTCTCATTTCTATCTTTCAAATATTTCTAATGC
TCCTCTTTTATAGCATGGGCTCAGGTATCAGATGGCGTAGGTCAAGATCTTGGCTCTACT
GTTTACTTACGGGAAATACTTTTATGTTGCTAAATCTCAGTTTTCTCTTCTGTAAGACGG
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TCAAGCTTATC
Sequence=7750;DNA;Homo sapiens
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AAGTGCTCCAAGGCAGCAGAAAGGCCCAGTGCATTGAGGCTGGAAGCAGGAGCAGAGACT
CTGGGATATAGCGCGAAAGTCTCTTTCCCCTGTAGTTGGGCTAATCTGGAAAAACTCAAA
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CAGTCTTCTTGAAA
Sequence=7751;DNA;Homo sapiens
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ACTTCCCTTTTTGCTTTTAGCGGGGAAAAAATAGCTTAATGACAGCATAGAATCATGTAG
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TGATCTAATTGCAAACATGTCATCACTCCCTTGATGTTTACCTCCTTGTTATGCATTTTT
AGCAGGCTTTATTGTCACC
Sequence=7752;DNA;Homo sapiens
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TCAGAATGTTTCAATTCCTTGTTTAAGATCACAAAACTAGTTTGAGGTATAATGGAAACT
GAAAAAAAAAAAAAAAAAGTGCGGCCGGCCGCACTTTTTTTTTTTTTTTTTTCAATATTA
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ATTTCACACATCATTTTTAACAATGCAAACACGGACCATT
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TABLE 2
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CATTACTGGAGGGCACTGTCACAAACTTCTGACTATCCAGACTTGAAGCTGGAAGCAAAT
ACAAGTCTGAGGGGCTCTAAGCTGGGAGGTTCTGGCCTCTCCCTAGCTCTCTATGGCTCT
ACCTCTCTGCTTGAAGCTCCCTGCACTGCACTCCCATTACTCTGACTGGGGATAGGACCA
CTGCTGACAGGGCCCCACCTCAACTTCTTTCATTGCCCTCTTCCAGGAAATCCCACCCTG
GGATACTTAAAAGACCTCATATGCTACA

Sequence=7754;DNA;Homo sapiens
AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGATTCAGCAGGTCTGGGGTGGG
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ACACCTTGAGAACCACTGGTTGGGCATTGATGAGGTCAACCAGGAGAAGCAGTGTCCCCT
AGAACTGGCAGGAGAGAAAGGACAAGGCTAAGAAACAGTGAACAGGAGTCAAGTAAATGC
AGCTGCCAACAGGCGGGGGTCCTTGAGTTCACATTCTTGGTTCCAGGTGACGTTTCCTGG
GAGTCAACAACCCTTCTCCTATGAAAAAGAAAAGGGCCAGACACAGTGGCACACGGCTGT
AACC

Sequence=7755;DNA;Homo sapiens
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TTCATTTAAATGAAAGTTGCAAAAAAAAAAAAAAAAAAAAGTGCGGCCGGCCGCCCGGGC
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AGAAAATAGGGGATGGTCCAGGATCTCCACTGATAAGACTGTTTTTAAGTAACTTAAGGA
CCTTTGGGTCTACAAGTATATGTGAAAAAAAT

Sequence=7756;DNA;Homo sapiens
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TTCAAAGAGCCTCTCAAAGAGCATTTCACGTATCTTTTACTGTTTTTCTCTCCACCTCCA
AGGGGTCTGTCTAGATCAGTGCGGACGCGTGGGTCGAAGACCTGCCCGGGCGGCCGGCCG
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GGGCTGTTGGGCGACCAAGGCCTTCCCGGAGTCTTCGTCCTCTATGAGCTCTCGCCCATG
ATGGTGAAGCTGACGGAGAAGCACAGGTCCTTCACCCACTTC

Sequence=7757;DNA;Homo sapiens
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ATCATTGAATATATTACTGCTGATGTTGTGGTAATACATTTAAACCAATGTGATGGGCAA
AAAAATTATATTTTTACTTACATCTTTAAAATTACTGGTGATCTCTGTTATTGACAAGCT
GGGCATAAAAAAGTAAATTAATAGAATTACT

Sequence=7758;DNA;Homo sapiens
GTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAG
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CTTAAAATTTGTCCTTAAATAGCTTACTCTTGGAAGATTTGTTTCTATGTAGACATTATG
GTAAAAGTTACTCTGAAACTCTTTTCTTTAGTTATCTGTTTATTCTGAGCTCAACAAGAT
TGAAGTAAGTTTTCGGGAGCTACAGAAATTAAATCAAGAAAAGAATAATAGAGGATTATA
TTCAATTGAAGTGCTGGAGCTCTTCTGATATTATCAATTCTCCTTCATAGACATTTTATA
AAGCTCTTTTATGTGAACTCTTGCTTCATCCAGGC

Sequence=7759;DNA;Homo sapiens
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TCTGTTAGCTTAAAATGTTAATTCTCAGGAATGATTTTCTCACACTTTGTGTTGGCTAAT
AATAAAAGCACTGTTTTATTCTCAAAACTCCTTTTTCAAAAATTAGGGAGAGAGCAGTAG
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Sequence=7760;DNA;Homo sapiens
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TABLE 2

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CCTGTTGCTCCAGGGACCACACCTTGAGAACCACTGGTTGGGCATTGATGAGGTCAACCA
GGAGAAGCAGTGTCCCCTAGAACTGGCAGGAGAGAAAGGACAAGGCTAAGAAACAGTGAA
CAGGAGTCAAGTAAATGCAGCTGCCAACAGGCGGGGGTCCTTGAGTTCACATTCTTGGTT
CCAGGTGACGTTTCCTGGGAGTCAACACCCCTTTTCCTATGAAAAAGAAAAGGGCCAGAC
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Sequence=7761;DNA;Homo sapiens
TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTGC
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TCACCTGAGGCCAAGGAGCCTCGCCCTTGAGCACAAGACTATGTAGTCAGTAAAGCACAA
ACAAAATTGGGGCTTTCCCTAGCAAGGTTGGAAAGGCGGAGAAGAAATGGATTTGGATAG
GTAGTCAACAATGTCTGTTTTATGTTACCACACATTTTCTCGAGAAATTTCAATCAGCTC
TCTGAGAACAGATTCATCTTTAAATGAATGTTCATAGGTAACAGCAACTCATGCATCAAT
GTTGCAAAGTGAGCTCATTTTCACATTGCTTCA
Sequence=7762;DNA;Homo sapiens
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TTTGCACTCCACTGTGCAATGCTGGCCCTGCACNNGCTGGGGCTNGTTGCCNNCCTGCCC
CC
Sequence=7763;DNA;Homo sapiens
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TAAGGGTAGAAACTAAACATAGTCCTTAAGTAGG
Sequence=7764;DNA;Homo sapiens
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ACTGAATTTCTGTTAGCTTAAAATGTTAATTCTCAGGAATGATTTTCTCACACTTTGTGT
TGGCTAATAATAAAAGCACTGTTTTATTCTCAAAACTCCTTTTTCAAAAATTAGGGAGAG
AGCAGTAGTGATCATTTATGTGAGCCCCTTTGAAATGATGGTGTCAGAGTGCAGAGAAAC
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GGCATATAGAGGAACCCTTTTGTACCTGCCCGGGCGGC
Sequence=7765;DNA;Homo sapiens
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GCCACATACTAAGTGTTGGATAAGTGTTTGTTATTAAAAAAAAAAAAAAAAAAAGTGCGG
CCGGCCGCCCGGGCAGGTCAGATGATTGCAGAATTTATGTGATTACTGGGTACTCTAATG
GTAAGGAGAAATTAAGACCAGCTAGTTGTTAATCTTAACTTTTAGTCATTAAGGAGAATT
TCCAAGACAAAACTGCAATCCAGCTGCTTACCTAGGAATACGGCTTAGGCTGAAAACTTC
TATCGTCTTAGAAATGGGAATAAACCTCAGGCCGCCCGGGCAGG
Sequence=7766;DNA;Homo sapiens
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GACAGAAACCACTGTGCCTATTTTACAGATACGAAAACTGAGGCACAGGTAAAGGGGCTT
GTCTGTAGTCCCATAGCTAGCAGATGGCTGGAGCCAAGACTGAGGCTCGTTCTTCAATGC
TGAGCCAGGGCTCCTTCCGCTGCACCACAAGAACGCTAGACCACTCGCCACCAGCCTTCT
CATTCCCTCTTCCTCCATTCTAATCATTTCTAGCTGGCTGGCCTCCACAGAGCATAGGAA
AACAGCCAGGGCCGGGCACGGTGGCTCATGCCTGTAATCTCAACACTCTGGGAGGCCGAG
CCGGGTGGATCACCTGAGGTCAGGAATTCGAGACCAGCCTGGCCAACATGTTAAAACCCC
ATCTCTACTAAAAATATAAAAATTAGCCAGGCATGGTGGCGCACACCTGTAATCCCAGCT
ACTCAAGAGGCTGAGGCAGGAGAATTGCTTAAATCTGGGAGGCGGAAGTTGCAGTGAGCC
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Sequence=7767;DNA;Homo sapiens
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TABLE 2

1223/3461

CTTGGAAACAAGAAGAGTGACTCCAGATGTGGCCTGAATAATTGCCATGTTAAGTTAATG
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CTGATGATCACCTTTCACAGCATTTTCCCCAACCAGCATTTCACTTAGTCTTCTCTATAC
CCAGCACCTCCCCCGGCACCCCCGGCAAGCCCACTATCACTTCCGACTTCCAACGTGGCA
TCCGTGAGATCTGTCCACATTAGGCGAAGCAGGAGAACACTGAGAGCAGCAGGATGGGTT
TGGAAAGAGCATGCCTCTGGAAACACAGCTTCCTGGGAATTCACATGAGGCCAGTCCTAC
AGAGAGCAAGATGCACCCCAGGATTTCTTCATTTTCTAATAGATGTGGGAGTGCTCCATT
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Sequence=7768;DNA;Homo sapiens

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GCATTGTTCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACC
CTGAATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACA
GAAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTG
AATTTCACCATCACCAACCTACCATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAAT
TACCAGAGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGC
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CACACCGGNGTGGACTCCCTGTGTAACTTCTCGCCACTGGCTC

Sequence=7769;DNA;Homo sapiens

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AAAAGCCATGATTTATTCGATGTGATTGGCTTGTTTTTATGTGGCGCCAAGAACGAACCT
GTTTAGCAGCTGTAACCAATGGTACGCGGGGGAGGCGAACAATGGCGGAGCTGGGCGAAG
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CACAGGTGCATCACTTCATGGAGTTATGTTGGGATAAATGTGTGGAGAAGCCAGGGAATC
GCCTAGACTCTCGCACTGAAAATTGTCTCTCCAGCTGTGTAGACCGCTTCATTGACACCA
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Sequence=7770;DNA;Homo sapiens

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GATAAAATAGAGAAAAAAATCTTATTTACTATAGCATTACATAATAAATTTCTGAGAAAA
AAATTAACCAGGGATGTAAAAAACCTTTACAATAAAAAATAAATAAAAAAGGAAGATCCA
AATAAATTTTAAAATATTTTATGTCTTTGGATTGAAAGAATAAATATTAATAAAGTGCCA
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CACAGTAATGGAAATTCAATTCTAAAATTTACATGAAACTAAAATAAACTTTGAATAGCC
AAAACAGTCTTGAGGAAAAGGAACAAGGCAGAAGAATATCATACTTACAATTTCAATCTA
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TGCAAGATAAACTAATACTCTCACGCATTTCAGACCTGATGCAA

Sequence=7771;DNA;Homo sapiens

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TGTGGATCCCAATCCGAGATTTCCCTGCTGAAAGACAAGAAGTATCTCATATAAAAGTGC
TGTAGCAGTATTTGTATACTCCAGAATAAGCTTCTGTAATTCTTAGCTGCCAATGTGTTC
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Sequence=7772;DNA;Homo sapiens

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CATCCCTGTCCCTCAAGGTCTAGCTCAAGACGGTCACCTTAAGAAAAGCTCCCTTTGTCG
AGCAGTGACTCCATACCAGGCCCTGCTTTAAACGCTTTATCTGCATTATCTTACTTGATT

TABLE 2

1224/3461

CTCGCAATAGCCCTGGGTGGTAGGTGCAATTATTATCTCCAGTTTATAAAAGAAGATACT
GAGGGTCAGAGAAGTTAAGTGACCGGCTCAAGGTGTCACATTCAGTAAGCGTTGAAGGGG
CCTGTGTTGGTCTGTCCTTGAAGATGCCCCCTACCACTACACTTTCAATGATTTCTGCCT
TGAACCTGGCCCCATGACTAAAAACCTCACGTCAAACTCAGGCAGCAATAACGGGAAGGC
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Sequence=7773;DNA;Homo sapiens

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ACCTCCTATGCTTTCCTTGGCATCGGCTACACATCATAGTATTCATTGCCTCCTTGAGGT
CATCTTGCAGCTTGGACAGAAACTCATTTACTGACCGGCTCAGCTCATTCTCTGCCATTC
GTTTCATCTCATACTCCTTTCGCTTTTCAGCATTGCTGACAATGTCCCAAGCTGCTCGCA
AAACCTTGAAGGCCTCCTCAGCCCGGGGATGATGATTTTTGTCAGGATGAACCATCACTG
CCAGCTGTCTATAGGCCTTCTTCAGTTCAACAATCTGATGCTGTGGCCTTAACCCCCAGT
ACCTTGGCCGCCACCGCGGTGGA

Sequence=7774;DNA;Homo sapiens

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CAATGGTGTGTTTTAACTGGCATCTGTTTAAGGCCTTTAACACGTGAATCGTCTGATCAC
CCATTTGCAGGATGTCTTGAGTATACACATTCAGCTGCATGTTTGGATCCCCACCAGCTG
TGCTCAGAAACCCCAGAGTGACTTCTACGACAGACAGCACTTCACAGGCATCGCTGTAGG
ACTGCAGCTGTCCACTGATGGCACTAATGACCGAGCTGGGGAGGGAGTCCTGGGAAATGA
AAAGCAGGAGAGGGATGTCTGTGGGCTGGGTTTCTGGCATCTCACCACCTGGTAAGAGAG
CCGAGCCCCTTCACTGCCCAAGCCACATGCGGGGGGCCAACTCTCTAACAGCTGACACTT
GGGCGCACGGTGTGCANGCAGTTCCTGGAGGCCATGGAGACACACAGGTCTACCTATCAG
TACCTGCCCGGGCG

Sequence=7775;DNA;Homo sapiens

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CCTTCCCTGGGTCTGAAGAAGTCAAGCTCGTTGGAGAGTCTGCAGACCGCAGTTGCCGAG
GTGACTTTGAATGGGGATATTCCTTTCCATCGTCCACGGCCGCTCTAGAACTAGTGGATC
CCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCC
CGGTACCCAGCTTTTGTTCCCTTTAGT

Sequence=7776;DNA;Homo sapiens

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AACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGAC
CCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTG
GGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAGTTTATCAA
CCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACCA
TATTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATT
GAGGATGCGCTCAACCAACTCTTCCGAAACAGCAGCATAAGAGTTATTTTTCTGACTGTC
AAGTTTCAACATTCAGGTCTGTCCCCAACAGGCACCACACCGGGGTGGACTTCCTGTGTA
ACTTCTCGCCACTGGCTC

Sequence=7777;DNA;Homo sapiens

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TGGAGAAACGAACACCTCATGAAAAGGAGAAATATCAGCCTTCCTATGAGACAACCATAC
TCACAGAGGTAAAAAGATTTCTTTTGGTGACAATTTCAGTTCATAATTTTTAATCTTAAA
AATTCATCACTTCCAAACTGGTCAGAATTTACTTCTCCTAAGCCTTGAGGGACACAGTAT
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TABLE 2

1225/3461

Sequence=7778;DNA;Homo sapiens
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TGGAAATGTCCAGGAGGCAACTAAATGAAACAGCCTGTGGTAGACAGAATAATGGCCCCA
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GGTGTGCCCAGTATAAT
Sequence=7779;DNA;Homo sapiens
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TGTTATCCGC
Sequence=7780;DNA;Homo sapiens
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Sequence=7781;DNA;Homo sapiens
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Sequence=7782;DNA;Homo sapiens
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Sequence=7783;DNA;Homo sapiens
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CCTGAGGAATAACACTTGCAAGGGAGTTCCTGATGAAGTGGATTCTTGTTATTCTAGGAA
TAGGCCTACATGGTGCACTGGCAATGTGAGATTATACCTCAGCATTTTCAAAGAGCATAA
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TABLE 2

1226/3461

GGGCAGGTGCTACTGTGGAAGATCTTCGTTTTCGACTACCATTTGGTGATTCTTGCTCTA
AAGTCTCAATATCAGTAAACTGAACAGATNGTCCACCACCCCTTGTTTTATAAATATCAC
CCTTAATTAGTTTAGTTTCAATCTCCCCATCGGAGGCTAGTTCCTGGTGGGTCAGCATGT
ACCT

Sequence=7784;DNA;Homo sapiens

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GTGTCCTGTGAGTATTAGTTGATTAATTATACTTGCTGCTTAGTGAAATACAGCCAGCTA
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GTGCCAGCCTTTGCCTTACCCTTCACTCTCTCCCTCCAGGAGCCGTCGGTACCTCGGCGC
TCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTC
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CTTGGCGTAATCAT

Sequence=7785;DNA;Homo sapiens

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CTCTAGAAATTTGAGTGACTTTTTGGCCATAATCCTGTTTGATATATTTTTGGTCAGCTG
CTCAAAACAAACATTCTCCTTGTAAGGTTATCTATCTGAAAGATACTAATTCATTTAAAG
CAGCTGCAGGTGAACAACCTAAAGATGACATGATTTGGGAGAAGAGGAAGGCAGATTACT
GAACTGACAAGTGACCCAAAGCATAATTAGGTTTGTGCACATGGTAGCATGGAGGTTCCA
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Sequence=7786;DNA;Homo sapiens

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GTGTGCTGCTTACGGGAGCCAGGGAAACTGGATTCCACTAATTCAATTGTAATACTTGCG
GGGGACCCTGGAGTTTTACGTAACATTTTGATTTGTGATAAAAAAAAAAAAAAAAAAATT
GTTCCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATA
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Sequence=7787;DNA;Homo sapiens

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CTTTATTCAAAAGTGACTTTCTCAGTGAAGCCCTGTCTGCTCACCCTGCGTAAAATTTCA
GCTCTTCTTTCTATCTCTCTTCCCAGATTTTTTTTCTCCTTCATGTTCGTTGGTGTCTAA
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TTGTCTGTTTTGTTCATGTCTATGTCCTTAGTGCCTGGAGCATTCCCTAGTATGCATAGG
TGCTCAATAAATGTCAGTTGGATTAATGGCTGAAAGAAAGGTCACCGCTATAAGGATGGA
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Sequence=7788;DNA;Homo sapiens

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TABLE 2

1227/3461

TGAGGCCTCCTGTTCAGGTATACGGTATTGAAGGTCGCTATGCCACAGCTCTTTATTCTG
CTGCATCAAAACAGAATAAGCTGGAGCAAGTAGAAAAGGAGTTGTTGAGAGTAGCACAAA
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AAGTGAAAAGCCTAAATGACATCACAGCAAAAGAGAGGTTCTCTCCCCTCACTACCAATC
TGATCAATTTGCTTGCTGAAAATG

Sequence=7789;DNA;Homo sapiens

ACTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGT
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CTGAGCAGAGCACCAAGGAAGAGAGCTCGGCTAGCCGGGAAGGTCCGAATGGATTTATTT
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Sequence=7790;DNA;Homo sapiens

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Sequence=7791;DNA;Homo sapiens

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AAAAAAAAAAATATTNAAGGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGC
AGGAATTCGATATCAAGCTTATCGATACC

Sequence=7792;DNA;Homo sapiens

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ATGCTTTATCTTTTGGTTAAAGGAACTATACCTGTTGAAATTCACACTGCCACAGTGATA
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GACCCTCCTATTCAGTTCATAAGCAATGGCACCACAGGTCAGATGCAGTTATCTGAACTC
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Sequence=7793;DNA;Homo sapiens

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GATCCCTCAGCTTAGTTTCGGGAGACCTCCCTGAGGGTGGAATACATGTCTGGCTGGGCT
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Sequence=7794;DNA;Homo sapiens

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TABLE 2
1228/3461

TCTCCAGTGTGCTCTCCTGAGAGGCCAGGCACACTCAACAATTATCTAGATGAGTTCCCA
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CTTAAGAGGCACTGTTCCACTCCTTTTCAAGGTGTGTGGCATATTTGAAATATGTGACTT
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TABLE 2
1229/3461

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TABLE 2
1230/3461

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TABLE 2

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TABLE 2
1232/3461

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TABLE 2

1233/3461

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TGTCAACCTCCAGTGTTGACTCTAGAAATATGAGGAAAGCTTTTCAGTTTTTAAAATTGC
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TTATTAATTTAGTGGTCCCAAAAGTATTACATCTTTTATATTCTGGAAGAAAAGAACTGT
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Sequence=7838;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTGTGGA

TABLE 2
1234/3461

GGTCCCAGGAGTGCTGGTGATGGGCACAAAGTTCCGATGGGTGAAACCATTGACATAGAG
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CTCCCAGTATAGCTGCTCTCTGTCCAGTCCAGGGTTTAGAGGGTCAAGGCGGTGAGTGCA
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GCCAGAGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATAT
CAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTT
AGTGAGGGTTAATTGCGCGCTTGGCGTAATCAT
Sequence=7839;DNA;Homo sapiens
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Sequence=7840;DNA;Homo sapiens
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GCGCCCCGAGGAGGCAGTAGAAGATCCGGACGAGGAGGATGAGGATAATACTAGTGAAGC
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Sequence=7843;DNA;Homo sapiens
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Sequence=7845;DNA;Homo sapiens

TABLE 2
1235/3461

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Sequence=7846;DNA;Homo sapiens
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CATGGGCCAGGACTG
Sequence=7847;DNA;Homo sapiens
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TCAGAGTATATACTGAAATATAAT
Sequence=7848;DNA;Homo sapiens
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CTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCC
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TTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGA
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GTTTCAACATTC
Sequence=7849;DNA;Homo sapiens
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TGGG
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TABLE 2
1236/3461

TCAAGTCTTCCAAATCTGCCCATGACATCAACCTCTGCTGCGTAATCGGACCTGCACCCA
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Sequence=7853;DNA;Homo sapiens
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Sequence=7858;DNA;Homo sapiens
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CGGGGAAGAAGGGCGGGGCCCGCCGAAAAACGGGGCGGCCCCGGGCCGCAGGCCCCGGGG
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Sequence=7859;DNA;Homo sapiens

TABLE 2

1237/3461

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GGGGGAACAATTGCTTCTCAAATTGATGAAGGTAGAGAAGAATGGTATCAGAGAAACTGA
TTAAGCAGGGACCTGGGAATCTGAGTTGAGTTCCGGGGCATGTTTGTTCCCTAGCACCAT
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Sequence=7860;DNA;Homo sapiens

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GAATTAAATTAAAATGCACAACTAATATTTATCTACTACAGACATAATATTTCTCAGTTG
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Sequence=7861;DNA;Homo sapiens

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AACAGACTCTTGGAGACGGCTGGCAGGAAGTGAAGCTCACCTTACCTGGGCTTACCTCAC
TGGGTCAAATCAGAATTTTATTTTGGAGGGCAGGTTGGCTACTTTGGATATTATCTGTGA
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TGCCTGGGTGGCAAAAC

Sequence=7862;DNA;Homo sapiens

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TTTTGTGTATTTTTAGTAAAGACAGGGT

Sequence=7863;DNA;Homo sapiens

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Sequence=7864;DNA;Homo sapiens

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Sequence=7865;DNA;Homo sapiens

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CATTCCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGG
CATTGTTCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCC
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TABLE 2
1238/3461

AAATGGAGTCATCAGTTTATCAACCAACAAGCAGCTCCAGCACCCAGCACTTCTACCTGA
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Sequence=7866;DNA;Homo sapiens
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TTCATGCT

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Sequence=7871;DNA;Homo sapiens
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TABLE 2

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CCAGGGTTCAGGGCACTGCTGTGTCATCTGCGCCACGGTGCACAAAGGCAGCTTCAAAAG
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GGGATTCTTTAGCTGAGATCTACTAGAGCCT

Sequence=7872;DNA;Homo sapiens

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Sequence=7873;DNA;Homo sapiens

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GAGTCCCCCATGCCCTGCCTGAAATGA

Sequence=7874;DNA;Homo sapiens

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TG

Sequence=7875;DNA;Homo sapiens

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Sequence=7876;DNA;Homo sapiens

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Sequence=7877;DNA;Homo sapiens

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Sequence=7878;DNA;Homo sapiens

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TABLE 2
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TABLE 2

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AACA
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Sequence=7891;DNA;Homo sapiens

TABLE 2

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TABLE 2

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Sequence=7897;DNA;Homo sapiens

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Sequence=7898;DNA;Homo sapiens

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TABLE 2
1244/3461

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TABLE 2

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AGTTGCTGGATGCATCTATTTCCTGAGGGTAAATATCCTCCTGAATAGCAGCTGACGAGC
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Sequence=7909;DNA;Homo sapiens
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TGTTTGATCCCTAACCCTACAAAGAGCCTTCCTATTCCCCTCGCTGTTGGAGCAANACCA
TTATACCTTACNTTCCAGCNNAAGCAAAGTGCTTTGACCTTCTTGCTTCAGTCATCAAGC
CAGCAACGAGGGAACAANAACTGTTCTTTTGCATTNTTTGCCGCTGAGATATNGGCATTG
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ATATTCAACCTCACAAGGGCTCTCAAAGTATAATCTTTCTATAGCCAACTGCTAATGCAA
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TTGAAGTATATTCTTATTGGAAATGTACCT
Sequence=7910;DNA;Homo sapiens
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AGACCTATTGTTCAAGTGAATTAGTAAGTAATTGTACCCAGAAGACCAGTACTGACTCCT
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TGACTCCAACCTCACAGCCTGAGCGGAAGTCCACCTTTGATGCAGCCAGCTTCATTGGAG
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Sequence=7911;DNA;Homo sapiens
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GGCATCTTAATGCTGCTGTAAACAGTCATCAGAAGATTAATGAGAATGAGACACTATATG
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Sequence=7912;DNA;Homo sapiens
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TGATGCTGGAGAATTATGGGAATGTGGCCTCCCTGGGATTTCCACTTCTCAAACCTGCTG
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Sequence=7913;DNA;Homo sapiens
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CTGGGTGGGAGCCCTGACACTGCTGGCCACTGCTGTCCAGGCACTGTGTGGGCTCTGCCT
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ATGTGGACTGGTGGTCTACCTGATGGCTACAGTAACGGTGCTTCTGGGCATGTACTCAGT
ATGGTTCCAGGCCCAGATCAAAGGTGCGGCCTGGTACCTGTGCCTGGCACTGCCCGTCTA
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Sequence=7914;DNA;Homo sapiens
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TABLE 2

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TGGACAAAGTGAAAGCTGAAGCAATGGAAATTTTGCTCAGCCGACAAAAGAAGGCTGAAC
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Sequence=7915;DNA;Homo sapiens
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Sequence=7917;DNA;Homo sapiens
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TABLE 2

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TCTATGTCCTGGACAGGGATAGCCTCTTCATCAATGGCTATGCACCCCAGAATTTATCAA
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Sequence=7922;DNA;Homo sapiens

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GGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTC
ATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGG
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Sequence=7923;DNA;Homo sapiens

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CTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTT
GGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACA
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GAAGCTGTGAAGCTCCTTTCTATTACTCATCATGCGATAAATAACTATATCCGGTATTAG
CTATTGTTTCCAATAGTTATCCCAGTCTTAAAGGTAGGTTAGGTACCTGCCCGGGCGGCC
GCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCG
TCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCG
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TTTCCAATAGTTATCCCAGTCTTAAAGGTAGGTTAGGTACCTGCCCGGGCGGCCGCTCTA
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TCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTG
GCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACAC
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TABLE 2

1248/3461

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Sequence=7927;DNA;Homo sapiens
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GTTTCCAATAGTTATCCCAGTCTTAAAGGTAGGTTAGGTACCTGCCCGGGCGGCCGCTCT
AGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGAC
CTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTT
GGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACA
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CACATTAATTGCGTTGCGCTCACT
Sequence=7928;DNA;Homo sapiens
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TTTTTCGCCACGT
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AGCGGCGCATT
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TABLE 2

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Sequence=7932;DNA;Homo sapiens
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TABLE 2
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CTCACATTAATTGCG
Sequence=7938;DNA;Homo sapiens
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TABLE 2
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TABLE 2

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TABLE 2
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Sequence=7956;DNA;Homo sapiens
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TABLE 2
1254/3461

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Sequence=7964;DNA;Homo sapiens

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Sequence=7965;DNA;Homo sapiens

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Sequence=7966;DNA;Homo sapiens

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Sequence=7967;DNA;Homo sapiens

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TABLE 2
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Sequence=7973;DNA;Homo sapiens
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Sequence=7974;DNA;Homo sapiens
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TABLE 2

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GGTTACAACTAGAGGCTTGTGGAATGAGACGTAAAAGTCTATTAACAAGAAAGGTAATCT
GTAAGTCAGATGCTCCAACAGGGAAGATGTTCTTCTTGATGAAGCTCTGAAGCATGTTAA
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GAATCCATTAAAAT

Sequence=7977;DNA;Homo sapiens
GAGTCGACCCACGCGTCCGGTTGGCCGGGCGGAGGTCTTCGCTGAGGCCCGGGGCGGGGT
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GCAAAGCGGAGGCTGCGACGGGTCCTGCAGGGGGACAGGGAGGAAAGGGCCGCCTCGTCT
CCGCTCCTGGGGGACCGCAGAAATAAGAATCAAACTCCACAATGACAACCTATTTGGAAT
TCATTCAACAAAATGAAGAACGAGATGGAGTCCGATTTAG

Sequence=7978;DNA;Homo sapiens
GCGTCCGCGGACGCGTGGGCGGACGCGTGGGCTTCTGCAGCAAGCTCAGGAGAGCTGCTG
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GACGCTGCCTCCTCACTCACTGTGGATGTGACGCCCCCCACTGCCAAGGCCCCCACCACC
GTTGAGGACAGAGTCGGCGACTCCACCCCAGTCAGCGAGAAGCCTGTTTCTGCGGCTGTG
GATGCCAATGCTTCTGAGTCACCTTAACTTTGAACCATTCTTTGGAATTGGCGTGGTATA
TTTAACCACGGGAGCGTGTCTGGAAACGCAAACTATCATTAATTTCATACTAGGTTTGTA
CCGTATCTGTAGGCATCCTGTAAATAATTCCAAGGGGAAAACTAAACAGNGACGTGNGTT
GTATCCTGCCAGGTTGAGTGGGGCTCACACCGTAGGTGAGATGTCAGAAGCGCTTGTATT
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Sequence=7979;DNA;Homo sapiens
TAGGCTTGCACACTTTTCTACTACATGTTTAAGTGGCAGAGTCCAGGCTGTCGAGTCACG
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AAGCTTGATTTTATTTATTTTATTTTATGTAAGAGTGAGACAGTAGTAGCTTAATAGGGT
TGCTTTTAAATTAGAGTGAACATGAGGCATTTATTCGGTGCCAGACAGATAACTGCCTAT
AACAGGATGTGATCAGCACAAGTAACAGAAAATTAGCCTGACGGTGGCTTAAGCAAGGGG
AATGTTTATCTCACATAGCAAAAAGTCTGTAAATGGATGGTTCTAGAGTTGGGTGGGAAG
CCAAAATGTCATCAGGATTTCCTGGAACCGTCTGCTTTGCCA

Sequence=7980;DNA;Homo sapiens
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ATTCAACTCCTTCAGGTTGTCTTGAACTGACTGACTCATGCCAGCCCTACAGAAGTGCCT
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Sequence=7981;DNA;Homo sapiens
GAGTCGACCCACGCGTCCGGCTCCCCGCACGCCCTCGCACTCGCTCTGGCCGGTCCAGGG
CGCCTTCAGCCCAACCTGCCCAGCCCCACGGGCGCCACGGAACCCGCTCGATCTCGCCGG
CAACTGGTAGACATGGAGACCCCTGCCTGGCCCCGGGTACCGCGCCCCGAGACCGCCGTA
GATCGGACGCTACTGCTCGGCTGGGTCTTAGCCCAGGTGGACGGCGCTTCAGGCACTACA

TABLE 2

1257/3461

AATACTGTGGCAGCATATAATTTAACTTGGAAATCAACTAATTTCAAGACAATTTTGGAG
GGGGAACCCAAACCCGTCAATCAAGTCTACACTGTGTCAATAAGCACTAAGTCAGGAAAC
TGGAAAAGCAAATGCTTTTACAC

Sequence=7982;DNA;Homo sapiens

AGTCGACCCACGCGTCCGGCGGCCGGGCCGGGGCAGCCGGGAAGCGGGTGGGGTGGTGTG
TTACCCAGTAGCTCCTGGGACATCGCTCGGGTACGCTCCACGCCGTCGCAGCCACTGCTG
TGGTCGCCGGTCGGCCGAGGGGCCGTGATACTGGTTGCCCGCCGTGTAAGCAGAATTCGA
CGTGTATCGCTGCCGCCAAGATGGAGGGGCCTTTGTTCGAGTTCGGTGACCGCAGCACTG
GGGAAACGATCCGCTCCCAAAACGTTATGGCTGCAGCTTCGATTGCCAATATTGTAAAAA
GCTCTCTTGGTCCAGTTGGCTTGGATAAAAT

Sequence=7983;DNA;Homo sapiens

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GGCGCAGCTTCAGGGCAGCGCGGGCTGCAGCGGCGGCGGCGGTTAGGGCTGTGTAGGGCG
AGGCCTCCCCCTTCCTCCTCGCCATCCTACTCCTCCCTCCTCGTCATCCTCCCCCTTCGT
CCTCCTCGCCTTCCTCCTCCTCGTCAGGCTCGACCCAGCTGTGAGCGGCAAGATGAGCGG
CGCCCAGGCCGCCGCCTGCCAGGCTGTCGGGCGTCATGGTGCCGGCGCCCATCCAAGACC
TGGAGGCCCTGCGCGCGCTCACGGCGCTCTTCAAAGAGCAGCGGAACCGAGAAACAGCAC
CCAGGACTATCTTCAAAGAGTTCTGGATATCCTAAAGAAATCTTCTCATGCTGTTGAGCT
T

Sequence=7984;DNA;Homo sapiens

CGCGTACGAACCAACTGACATTTATCATGGATGCTGACCAGGAGAAAGAAAGAAAGAAAC
GGGAGGAGCGGGAGCGTAAGCGGCGGAAGGAGGAGGAGGTGCAACAGCCAAAGTTGGCAG
AGGAGAGACGGCGGCAGAATTTACAGGAGGAAAAGGAAAGGAAGTTGGAATGCCTGCCCC
CTGAACCTTCCCCTGATGACCCTGAAAGTGTCAAGATCATCTTCAAATTACCTAATGATT
CTCGAGTAGAGAGACGATTCCACTTTTCACAGTCTCTAACAGTAATCCACGACTTCTTAT
TCTCCTTGAAGGAAAGCCCAGAAAAGTTTCAGATTGAAGCCAATTTTCCCAGGCGAGTGC
TGCCCTGCATCCCTTTCAGAGGAGTGGCCCAATCCCCCTACGCTACAGGAGGCCGGACTC
AGCCACACAGAAGTTCTTTTTGTTCAGGACCTAACTGACGAATGACATTTTTTTCTTCCT
GTCCCCTCCTACCCCAGTCCCTAAAGAAATGGGGAAAATAGAAAACATCAGCAAGTCATA
AAAAAAAAA

Sequence=7985;DNA;Homo sapiens

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ACTTAATATCCAGTTGTGGGGTTTGCAAAACAAAACAGCTGTATGTAATCATTGCCACTA
GTTCCATCTAGAACTCCTTTCTAGTTTGTTATTTTTAAAATGTTTATACATAAAACCACC
AAAATACATAGCTTCGACAAGATGGAAGTTTATTTCTCTCTCCCATAACAGTGCAGTGAT
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CTACTGTCTTGGCATGTGGCCACAGTTAGCAAC

Sequence=7986;DNA;Homo sapiens

GGTGTCGACCCACGCGTCCGGTGATGCGGACCCCGGGCGGGCGCAGGGCGCGGGCTCCGG
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CCGGAGACCCCGAAAACGGAAGCGCAGGGAGAAGGAAGAGGTGTTTGAAAAGCTTCTTCC
AGACCAGCTGGTCTTGCTTCTGGAGCATCTCTTGGAGCAGAAGACTCTGAGCCCCCGAAC
TCTGCAAAGCCTCCAGAGGACATACCACCTCCAGGATCAGGATGCAGAGGTTCGCCATCG
GTGGTGTGAACTCATTGTTAAGCACAAGTTCACGAAAGCCTACAAAAGTGTGGAGAGGTT
CCTTCAGAGGATCAGGCCAATGGGTGTGTACCTCTACGGGGAGCTGATGGTGAGTGAGGA
CGCCAGACAGCAGCAGCTCGCCCGTAGGTGCTTTGAGCGG

Sequence=7987;DNA;Homo sapiens

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ACGGATTTGCGGTGCGCAGCCAGTGCCGTTCGTCCCTCAGGTGCTTGGCGTGATGATCGG
GGCCGGAGTGGCGGTGGTGGTCACGGCCGTGCTCATCCTCCTGGTGGTGCGGAGGCTGCG
AGTGCCAAAAACCCCAGCCCCGGATGGCCCCCGGTATCGGTTCCGGAAGAGGGACAAAGT
GCTCTTCTATGGCCGGAAGATTATGCGGAAGGTGTCACAATCCACCTCCTCCCTCGTGGA

TABLE 2
1258/3461

TACCTCTGTCTCCGCCACCTCCCGGCCACGCATGAGGAAGAAACTGAAGATGCTCAACAT
TGCCAAGAAGATCCTGCGCATCCAGAAAGAGACGCCCACGCTGCAGCGGAAGGAGCCCCC
GCTCGCAGTGCTAGAAGCTGACCTGACCGAGGGCGACCT
Sequence=7988;DNA;Homo sapiens
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TCTGCGGCGCCTGCCAAACCGCATACCCAGCCTGCGGATGCTCCGGAGCTTCTTCACCGA
CGGGTCCTTGGATAGCTGGGGCACCTCTGAAGATGCTGACGCTCCTTCTAAGCGACACTC
AACCTCTGACCTCTCAGATGCGACCTTCAGCGATATCAGGAGAGAAGGCTGGTTGTATTA
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CAGAGCGATCCGGGAGAACAGCAGGGCCGAGGGCGAGGACCCCGGCTGTGCCAACCAAGC
TCTGATCAGCAAGAAGCTTAATGATTATCGCAAAGTGAGCCATAGCTCTGGGCCCAAAGC
TGATTCCTCCCCCAAAGGCTCTCGCGGCCTGGGGGGCCTCAAGTCTGAGTTCCTCAAGCA
GAGTGCGGCACGTGGCCTCAGGACTCATGACCTGCCCGCAGGGAGCAAGGATGACAGTGC
TGCAGCCCCCAAAACCCC
Sequence=7989;DNA;Homo sapiens
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TAAAATCTAATACATCATGGGATATATATAAAGCAACTTAATTCTTGTGGTGTAGTCTTA
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TCAACCTAAGTTGG
Sequence=7990;DNA;Homo sapiens
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TCCGCGTGAAAAGTCCTCTGCCCACGAGAGCAGGGAGTTGGGGCCACGCAGAAATGGCCT
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CTAAAGACGACAGTCTTTGTTGTTAGCACTGAATTATTGAAAATGTCAACCAGATTCTAG
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Sequence=7991;DNA;Homo sapiens
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ACCAGCGGTCCTCACCGCATCTCACATGGCTCCTGTGATGCATGTTGTCG
Sequence=7992;DNA;Homo sapiens
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GAAGAAGACGCTGCAGGTGGAGGAGCGCTATCCATATCCCGTTAGGCTGGAAGCCATGTA
CGAGGTCATCGACCAAGGCCCCATCCGTAGGATCGAGAAGATCAGGCAGAAGGGCTTTGT
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AGGGGGAGC
Sequence=7993;DNA;Homo sapiens

TABLE 2
1259/3461

GGTCGACCACGCGTCCGGGATGCCTTGGGTCTGAAAGTCGATGAAGGACGCGATTACCTG
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TGGCGAGCGAAAGCGAAAGAGCCCAAACCTGTAAAAAGGGGTTGTAGGACATCTTACATT
GAGTTACAAAATTTTATGATAGTAGAAGAAGTTGGAAAGCTTCAACATAGAAGGTGATAT
TCCTGTATACGAAATCATAAAATCTCATAGATGTATCCTGAGTAGGGCGGGGCACGTGAA
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TGAACTAGTACCGTGAGGGAAAG

Sequence=7994;DNA;Homo sapiens
GGAGTCGACCACGCGTCCGAACATTATTGAGATTGTCGTGTATAGTCATCGAATATCAGC
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TGGCTGAAGGAAATGATCCGCCACCCTGAGGGTGGTGATGGTAGTTTCTACCCATACCTC
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TTC

Sequence=7995;DNA;Homo sapiens
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CAAGACCCCATCTCTACAAAAAATTTAAAAGTTAGCCGGGCATGGTGATTCACACCTGGA
GTTCCAGCTGCTGTGGAGGCTGAGGTGGGAGGATCGCTTGAGCCCAGGAATTTGAGGCTG
CAGTGAGCCATGATTGCACCACCGCACTTCAGCCTAGGTGACAGAGCAAGGGTCTACCTC
AGAAAAAAAAAAAAAGGAGGAGCAAGCACGTGTTGATGGGTGGAAATCCAGCCAGAAATG
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ACGTTGGTACGTTACAGTGC

Sequence=7996;DNA;Homo sapiens
CGACCACGCGTCCGCTGACATTTCCTAGGAAGCTAGGAAAAGGAAAGTGAAGGAATGGTC
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CTGAGACAGTGAATGTAGTCCGTGAAGGGAGTGCCTCTCTGGGACCCCCTGTGTTGTTAC
AGGCTGTGCAGTGCAACAATTCCAGCAAAAATACCCTATCCCCGCACTTAGTCATTCGTG
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ATTTGAGCTACA

Sequence=7997;DNA;Homo sapiens
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CGCCTTCTCCATCACCTCCTGCATCTTTACCTATATCCATTTACAGCTTGCCTGAGTGGC
CAGCGCGGGACGGGGTGGGCGCAGGACCGAGCGGGGAGGGAAAGGGAAAACGGGGCTCGG
CATTTTGTGTTTTAGAACAGCGCTGCACCCCCTTCATGTAGCTTTCGATGCTTGTTTCTT
TC

Sequence=7998;DNA;Homo sapiens
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AAAATCTGGTACATACCTTCAAGGAACATTTAGAGCTAGCAGGGAAAATTACTTGGAAGC

TABLE 2
1260/3461

TACAGTATGGATTCATGGCGACAGTGAAGAAAATAAAGAGATAATCTTACAGGGACTTAA
ACATTTAAACAGAGCTGTTCACGAAGATATTGTGGCTGTGGAGCTTCTCCCCAAGAGTCA
GTGGGTAGCACCATCTTCTGTGGTTTTACATGATGAAGGTCAAAATGAAGAAGATGTGGA
GAAAGAAGAAGAGACAGAACGAATGCTTAAGACTGCTGTAAGCGAGAAAATGTTGAAGCC
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CAAGTCTGACATAAGGAGTCAAGAAGACATCTCTTTACACCTGCTGA

Sequence=7999;DNA;Homo sapiens
CCCACCCGTCCGCGGACGCGTGGGCGGACGCGTGGGCTGGCTGTATCTATACTTTCCTTG
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CATGTCTGGCTGATGTATCCTATAAGGCAGTAAGCCCCTTTTCTAGTCTCTGGTAAGATG
CAAGAGCTCATATCCCCATCACTGACATTTTAGTTTGGAAATAATATTGAGACTGTGCTA
TGACCAACCCCTGATGTTGTTTTTTCTTTTCAAACTTTTGCATATGAGTAGAGGAAAAGC
CTAAAAGTTAAGTATTTATGTCTGGGGGGATACCTTCAGGTGTCTTATCTGTTTTATGCA
AGAATTTATGTGTTCATCTTTATTCAGTGCAAAGATTTTTTTTTAAATTTTGTTTATAAT
TGTAGGTAACATTAAGACAACTCTTCCTCCACAAGAAAACCTCCTAAAATTAATATTCCT
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Sequence=8000;DNA;Homo sapiens
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GAAAGTTTCCTATTCTCTTCCATTTCCCCTGCCCAAAGTGCTGACATAGGCAGTGATGAA
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GGATGGGGAACGAATGCCAAATCAGACTCCACCTAGAGCACCAGGAAACAGCTTGTACCC
TGGTAGGAAATGGTGTTGCTGAAGGGGAGGCTGAGCCAGTGCGAGACTGAACTTGTGCAG
CCTTAGCCAAGAAAAGCAGTGTTTTTCAGCAGACGGCTGATGGGAC

Sequence=8001;DNA;Homo sapiens
CGACCCACGCGTCCGGCTGTTGACCCCATGCTGAGTGGCCAGTGGGGAGCGGCGCCCGGC
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GTTTTTCCCAAGAAGAAAAGTATTTAAAAGAAATACCAGTGAGTGCCTTAAAGTTGGAGA
AGTAACTGCCCATGCCCAGAAATAAGGATGCCAGTGCCCAGAAGCAGTGAGATTAGTCTG
TGTCCACAAGCAGAGGCCCCCTCGATGGGAGGGAGTGGCAGGCAGGAGAAGGTGGCGCTG
CCAGGTGCCCGGGTCTATTGGAGGCGCCCCATCTCAGACTTCCTAACACAGCCTGTGTGG
AAGGCAGAACAAAGAATGCATGCCCAGTCAGAAATCTGTTCTATTCTGCTCCAGGAAAAT
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Sequence=8002;DNA;Homo sapiens
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CTCTGGCTGGCGTTGCTGCGCTCCGTGGCCGGGGAGCAAGCGCCAGGCACCGCCCCCTGC
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GGCTTTTTGGACTGGAGACGATGCCGCAGGAGAGAGAAGTTCACCACCCCCATAGAGGAG
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Sequence=8003;DNA;Homo sapiens
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CAGTTCAGATTAAAGAAGCTAATTGATCAAGAAATCAAGTCTCAGGAGGAGAAGGAGCAA
GAAAAGGAGAAAAGGGTCACCACCCTGAAAGAGGAGCTGACCAAGCTGAAGTCTTTTGCT
TTGATGGTGGTGGATGAACAGCAAAGGCTGACGGCACAGCTCACCCTTCAAAGACAGAAA
ATCCAAGAGCTGACCACAAATGCAAAGGAAACACATACCAAACTAGCCCTTGCTGAAGCC
AGAGTTCAGGAGGAAGAGCAGAAGGCAACCAGACTAGAGAAGGAACTGCAAACGCAGACC
ACAAAGTTTCACCAAGACCAAGACACAATTATGGCGAAGCTCACCAATGAGGACAGTCAA

TABLE 2
1261/3461

AATCGCCAGCTTCACAAAAGCTGGCAGCACTCAACCGGCAGATTGATGAGTTAGAAGAGA
CA
Sequence=8004;DNA;Homo sapiens
CGCGTCCGGAAGGAAGGGACGGGCTGAGTTCCCCGACGAGAGACACACCCAGATTTTCCT
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GCCAGGATGGAGGCTGTTGTGAACTTGTACCAAGAGGTGATGAAGCACGCAGATCCCCGG
ATCCAGGGCTACCCTCTGATGGGGTCCCCCTTGCTAATGACCTCCATTCTGCTGACCTAC
GTGTACTTCGTTCTCTCACTTGGGCCTCGCATCATGGCTAATCGGAAGCCCTTCCAGCTC
CGGGGCTTCATGATTGTCTACAACTTCTCACTGGTGGCACTCTCCCTCTACATTGCTGTC
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AACTTGGGAGAGGAGCACTC
Sequence=8005;DNA;Homo sapiens
TCGACCCACGCGTCCGGGCTCCCATCCGGGCTATCCTGCCGCCTTAGCGGCTGCTTCTCC
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Sequence=8006;DNA;Homo sapiens
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CAGGCATTGTCTTGTTTATTTGTAGACTGGATTAAAAACAACCTGTCCTGTTTTGTCAGT
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ACCCGCAGAATGA
Sequence=8007;DNA;Homo sapiens
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GCCTCTGAGGCCTGTGTGGCTGCTCTTCTGGGTAACAGGGTGGATCCCCTTTCAGAAGAA
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Sequence=8008;DNA;Homo sapiens
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TCCTCATCTTCCTAGAGAAGCGTTTGCACAAGACACACAGGCTGAAGGAGAGTGTAGCTC
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AGGCCCAGGTGCTGCCCCCTCTGCGGGATGTGAGGACACGGCCTGAGGTTGGGGAAGATG
CTGCGGAACAAGCTTGTCCGCCTCATGACACACCTGGACACAGATGTGAAGAGGGTGGCT
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Sequence=8009;DNA;Homo sapiens
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TABLE 2
1262/3461

ATCTGAAGGCTTAAAGAACATTGTCGTTCTTCAGCCCTCCTTGCTTCTCTCAATACAATA
AGACATTGCAGAAGCAAAAGGGTGGCCTCTGCTCCAGGCAAGGCAGCTGGCTCTGTCTGG
GGCGTCGGCCTGGGGCTTGGGTGCCACGTGCTGAGATTGCATAGTCAAAACAGCCATTTT
TGCCAACAATAGCTTGTGGCTCCCCACATTTTTCTACCCTGCAC
Sequence=8010;DNA;Homo sapiens
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AAAAGACATCTGGTACTCGCTGCCTGTCAACAGCAGTCTACTGTGGAGTGCTTTGCCTTT
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TCACCTATTACAGAGTATCTTGCTTCTCTAAGCACATACAATGATCAATCCATTACTTTT
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Sequence=8011;DNA;Homo sapiens
CGACCCACGCGTCCGGTCTGAAGGGTCTGGCTGGTGAGCCAGGTTTTAAAGGCAGCCGAG
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GAGAGAAAGGAGATGAAGGGCCTATGGGGCTGAAAGGATACCTGGGCGCAAAAGGTATCC
AAGGAATGCCAGGCATCCCAGGGCTGTCAGGAATCCCTGGGCTGCCTGGGAGGCCCGGCC
ACATCAAAGGAGTCAAGGGAGACATCGGAGTCCCCGGCATCCCCGGTTTGCCAGGATTCC
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ACAAAGGTGCCCCAGGGAGAGCAGGCCTGTATGGCGAGATTGGCGCGACTGGTGATTTCG
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CCACTGGAATACCAGGTCTGAAGGGATTCTTTGGAGAGAAGGGAACAG
Sequence=8012;DNA;Homo sapiens
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AGGCAGTGCCCCGTCGGAATGGGGCCGCGGGTCCACATTCCC
Sequence=8013;DNA;Homo sapiens
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CTGCCCTGTGCATCTACTCTCCCGAGGGCCACGTGCTGACCCTGGACGCCCTGGACCACT
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CAGATGGCAGGGAGGTGGCT
Sequence=8014;DNA;Homo sapiens
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CCCCGTCTCTACTAAACATAAAAAAATTAGTCAGGTGTGGCGGTGCGTGCCTGTGGTCCC
AGCTATTCAGGAGGCTGAGGCACCAGAATTGCTTGAACCCAGGAAGTGGAGGTTGCAGTG
AACTGAGACTGCGCCACGGCACTCCAGCCTGGGCGACAGAGCAAGAC
Sequence=8015;DNA;Homo sapiens
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TABLE 2

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CCGGGGCGGGGCGGCGGCCCAGCGAAGGAGCGCGCGGGCGGTCTGGCCCCGCCCCCTCCC
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TGCGCGTCCGACGGCGCCGAGTGGCTGGAGGAGGCCACCCAGGACACCTCGGTGGAGAAG
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ACCCATCATAAATTAATCCACGCTGCCTCAGAAAGGGTGCTGAGTGATGCCAGGACCATC
CTGGAAGAGAACATCCAGGACCAAGATGGCCTATTATTGATAAAAAAAGCGGCTCCATAA
CCACTTTCCAAGGTGGCTGATG

Sequence=8016;DNA;Homo sapiens

CGACCCACGCGTCCGGGATCCCGTACCCGGGACTGACTCGGCGCCGCTGGCTGGCCTGGC
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GGGGGCACCCGCCAGCTTTGGCAAGAGCTTCGCGCAGAAATCTGGCTACTTCCTGTGCCT
TAGTTCTCTGGGCAGCCTAGAGAACCCGCAGGAGAACGTGGTGGCCGATATCCAGATCGT
GGTGGACAAGAGCCCCCTGCCGCTGGGCTTCTCCCCCGTCTGCGACCCCATGGATTCCAA
GGCCTCTGTGTCCAAGAAGAAACGCATGTGTGTGAAGCTGTTGCCCCTGGGAGCCACGGA
CACGGCTGTGTTTGATGTCCGGCTGAGTGGGAAGACCAAGACAGTGCCTGGATACCTTCG
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GCCCAAGCCCCGAGGTC

Sequence=8017;DNA;Homo sapiens

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TAACACCCCTACTGAACCCCACAGCTCCAGCCTTAGTTTTTGGAGTCAAGTGTTAAAGGT
TTCTGGCCAGAGGAATTGGGGTCTTGCCATCCCTGCAATAGCCCTTTTATGGGCTCTGGG
AGACAGCTTTAGGGAATAAATGGGGATTTTCCCCTTTTTCTACCCACTCCTTTGCTTCCT
CCAAGACTTACCCAACTCCTTCCCCCTCAGAGAACCAAATAGCCTGAGGAAGCAGGAGAG
TTCCTGGTTATGGCAGTTTCTTGGTGATTTGGGGCTTCAAGACAGTAGGTGAGAGATGCT
GTCAGGACGTATCTTCTTCATACCAAAGTCACTGGTCCTTTCTCAGCCTCTCTCGTGCTT
TTCTCCTAATGACCATATTTTTGCCAAAAATTGGGATATGTTATCTGACAGACCAGAATA
TTTGAAGTTTGGGCT

Sequence=8018;DNA;Homo sapiens

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TATTCTTTCTGGGAGTGATGTTTTTATCATTTTTCCATGGAGACAGGTTCTAACTCTGTT
GCCCAGGCTGCAGTGCAGTGATGTGATCATAGCTCACTGCAGCCTGAAACTCCTGGGTTC
AAGTGATCTCTGGCCTCAGCCTCCCAAGTAGTTGGAACTTCAGATACGTGCCACCACATC
CAGCTAATTTATTTTTTAGAGATGAGGTCTCGCTATGTTGCCCAGTCTGGCCTACTAGCC
TCAAGTGATCTTGCCATCTGAGCCTTCAGTTGGAGATGTCTGATTTATGTTAATATAAGA
AAGCTGTTGATCGTTTATCATAAAGGCATTTCCTTATATTGCTAGTATAATCCTCTGAAT
ATTAGCGGTAAGATG

Sequence=8019;DNA;Homo sapiens

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GGCTAGCGGAGCTGCCCCGGGAAGCTGGGTGACGGGTTCGCGGCTGCCGCCGGACTGCGG
CCTACTCCGCCGCCTCTCAGTGCTATTGTCCCTGGGCCTGGCCTTGAGCGGGTCCACTGG
GGAAGGCCGTGTGCGCCGGCTCCGCGGAAGATGCCGGACCAAGCCCTACAGCAGATGCTG
GACAGAAGTTGCTGGGTTTGTTTTGCTACTGATGAAGATGATAGAACAGCTGAATGGGTG
AGACCATGGCAGGTGCAGAGGATCTACAAAATGGGTTCACCAGGCCTGTCTACAACGCTG
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Sequence=8020;DNA;Homo sapiens

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TGCTCAGCTCGGGCCACGGAGAGGAGCAGCCCCCGGAGACAGCGGCACAGAGGTGCTTCT
GCCAGGTTAGTGGTTACTTGGATGATTGTACCTGTGATGTTGAAACCATTGATAGATTTA
ATAACTACAGGCTTTTCCCAAGACTACAAAAACTTCTTGAAAGTGACTACTTTAGGTATT
ACAAGGTAAACCTGAAGAGGCCGTGTCCTTTCTGGAATGACATCAGCCAGTGTGGAAGAA

TABLE 2
1264/3461

GGGACTGTGCTGTCAAACCATGTCAATCTGATGAAGTTCCTGATGGAATTAAATCTGCGA
GCTACAAGTATTCTGAAGAAGCCAATAATCTCATTGAAGAATGTGAACAAGCTGAACGAC
TTGGAGCAGTGGATG
Sequence=8021;DNA;Homo sapiens
GACCCACGCGTCCGGCGTGGGGATGGGTGGGGTGAGGGGGCGAGGCCGCAGCTAGGGCGG
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TGTCAGCCTTCTCTGAGGCGGCGCTGGAGAAGAAGCTGTCGGAGTTGAGCAACTCGCAGC
AGAGCGTGCAGACCTTGTCCCTGTGGCTCATTCACCACCGTAAACACTCGCGGCCCATCG
TCACCGTGTGGGAGCGGGAGCTGCGGAAAGAGTGGAGGTGCAACAAATGAGAAATTCCAA
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CCTAGCCAATGATGTCATACAGAACAGCAAGAGGAAGGGGCCAGAGTTTACAAAAGATTT
TGCACCAGTTATAGTGGAGGGCTTTAAGCATGTTTCAAGTGAAACTGATGAAAGTTGTAA
GAAGCACCTTGGAAGAGT
Sequence=8022;DNA;Homo sapiens
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CCACCTCCCCTGAGAACCTCAGTTCTTCCTAAATTGCTAAAGCTGAGGGGAAAGGGATGC
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CGATAACAGGCA
Sequence=8023;DNA;Homo sapiens
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CCACTCAGTGCCTGTCAAAAGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCA
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CAGCTCAGAGTTCTGCAGCACCCCT
Sequence=8024;DNA;Homo sapiens
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ACTAGAGAGAGGCAGGCGTGTGTGTGGACAAGCGCTGGAGCCGCAGCCCTCAGACTGGCA
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GGCCGAGTGTCTGCAGTGCTGGTCCTGACCCTTCCAGAGCAGCAGTGGACAGATGAGATA
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CCAGCCCAAGATTGGGAAAGCAGGTGGGGGGTCCAAGCTTTTAAA
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TGGAACTTGAAGAAATGGAGCGTCTTATGGATGATGGGCTTGAAGATGAGAGTGGAGAAG
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TCATCACCACCTTCTTTACTTCACTAATACCAGAGGGGCCTCCCCAGGTTGCCAATTGAC
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TGCAATTTCAAAAAAATTTATAACTTTCTTTTGATCATCATGTACAGAGGTNGTTTTTTT
TCTTTAGGCTTCTCATGCATATGAATATTTTAAGCACGAATGGACTACTAAATATCTGAG
TTTTTTTTTTTTTTTTTT
Sequence=8026;DNA;Homo sapiens
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TABLE 2

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GACTGGGAACAATGGAAAAAATTACATTAGCTGTGGTTGTAAAGTTTTTTTGTTTTTGGT
TTTGTTTTTTTTTTTCTTTTTTCTTTTTTTTTTTTTTTACCATCTTGTGAAAGGTTTCTGAA
ACTCGATAATAAAAAGCGGTTGGTGTAAATTATTCTTTTGTGTCACATTTTTAGAAGGAA
AAACATAAAAGAATGTATCCTTAGTACTGGTTCTTAAACAGCCCATAAAAACCCATTGGC
CTGAAGCTTATATCTCAGGCCTATGCCCATCTTATAGTCTTGGAAGACAAAAGGCTGGTA
GAGACAGTCTTTAGTGGCTTCAGTGATGC

Sequence=8027;DNA;Homo sapiens

CGCGTCCGCTGGGTCTCGCCCTCAACCTGTGCATGTATATGTGTGTCTTTGTGTGTGTAT
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CCGCCTCCAGGAGAAGTTGTCACCTCCCTACAGCTCCCCACAGGAGTTTGCCCAGGATGT
GGGCCGCATGTTCAAGCAATTCAACAAGTTAACTGAGGACAAGGCAGACGTGCAGTCCAT
CATCGGCCTGCAGCGCTTCTTCGAGACGCGCATGAACGAGGCCTTCGGTGACACCAAGTT
CTCTGCTGTGCTGGTGGAGCCCCCGCCGATGAGCCTGCCTGGTGCTGGCCTGAGTTCCCA
GGAGCTGTCTGGTGGCCCTGGTGATGGCCCCTTGAGGCTGGAGCCCCCATGGCCAGCCCA
CCCTGGCTCTGTTCTCT

Sequence=8028;DNA;Homo sapiens

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GCCAGCCGTCCTTTTTCAGAACAGCCGTCGTCAAAAAGAAAGAACGGGGGGTGCCGAGGT
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CGCCCCTGTGCGTCCCCGCGCGCCTCCGAGCGCCCCTGTGCGCCCCGGCCCGCGCCCCGC
CGGCATGGACGTCCATACCCGTTGGAAAGCGCGCAGTGCGCTTTGCCCGGGCGCCCCGCT
GCTGCCCCCGTTGTTGCTGCTGCTGTTGT

Sequence=8029;DNA;Homo sapiens

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CTCTGACCCCACGCGGAGGGGACCTCGCCTTGCGGGACCCCACCTGGAACCCGACCTGCC
AGCCTCGCAGCCGGCCTGAGCCGCCATGCGCGGGAAGTTGCTGCCGCTGGCCGGCCTCTA
CCTGGTGCAGGGCCTGCCCTACGGGCTCCAGTCCGGCCTCCTGCCAGTGCTGCTGAGTGC
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Sequence=8030;DNA;Homo sapiens

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AGGCCAAGTTTATAAAGAAACACGTTTATTCCTGGATGGAGAGGAAGAAAAAGAATGGGC
ATTTGAGGAAAGCAAAATAGATGAGCACCATTTTGTTGCAGTTGCTCTTAGGAAACCCGA
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TACTATTCTCAACTTTAATGATTTA

Sequence=8031;DNA;Homo sapiens

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Sequence=8032;DNA;Homo sapiens

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TABLE 2
1266/3461

TTCTTTAGAAGTGGCCATACAAACAAACTGGGCTGTTCTTGGTGTGTACATCCCGATTCT
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GTATTCCTGACAGTCACATTGCCCTAATGCTTGCAGATGATATGGCCTGTAATCCTAGAA
ATCCCAAACCAGCTACAGTGTTTAGTCACAAGAATATGGAACTAAATGTGTATGGAGAAT
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Sequence=8033;DNA;Homo sapiens
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Sequence=8034;DNA;Homo sapiens
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CCTGGATAATGATGAAGGATTGAAAATCGCTG

Sequence=8035;DNA;Homo sapiens
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CGTCGCCTGCAGCTTCGAGAGGAGTTGGATCGATCTTCTTGTGGAAACGTCCTCTTCAAT
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CCTCAGCAGCTA

Sequence=8036;DNA;Homo sapiens
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ACCTTTCTACAT

Sequence=8037;DNA;Homo sapiens
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GCCCGGCTGCAGATAGAGATTGGGAAGCTGAGGGCAGAGTTGGACGAGGTCAACAAGAGC
GCCAAGAAGAGGGAGGGCGAGCTTACGGTGGCCCAGGGCCGTGTGAAGGACCTGGAGTCC
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TABLE 2
1267/3461

Sequence=8038;DNA;Homo sapiens
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CGCAGACCAACAGCCAGAGAACTTCTGTTCCACCCAGCATTGTTTGAAGTGCCCTCGCTC
AAACTCCTTGCGGCCCACTGCATTGTGGGACACCAACACATGATCCCAGAGAACGCTCTA
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TATTACCCTGTGACATCACTTGTCGTGCC
Sequence=8039;DNA;Homo sapiens
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Sequence=8040;DNA;Homo sapiens
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Sequence=8041;DNA;Homo sapiens
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CATGCTAACTAGTTACGCGACCCCGAGGTGCCTGACCAGTTCTACCGCCTGTGGCTATCC
CTCTTCCTGCACGCCGGGATCTTGCACTGCCTGGTGTCCATCTGCTTCCAGATGACTGTC
CTGCGGGACCTGGAGAAGCTGGCAGGCTGGCACCGCATAGCCATCATCTACCTGCTGAGT
GGTGTCACCGGCAACCTGGCCAGTGCCATCTTCCTGCCATACCGAGCAGAGGTGGGTCCT
GCTGGCTCCCAGTTCGGCATCCTGGCCTGCCTCTTCGTGGAGCTCTTCCAGAGCTGGCAG
ATCCTGGCGCGGCCCTGGCGTGCCTTCTTCAAGCTGCTGGCTGTGGTGCTCTTCCTCTTC
ACCTTTGGGCTGCTGCCGTGGATTGACAACTTTGCC
Sequence=8042;DNA;Homo sapiens
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CACTGCAAGTCGGTCGAGGAGATCTTGACGCTGGTGCAGAAGCTGGCCGACCAGTCGGGC
TTGGACGTGATCCGCATTCGCAAGCCCTTCCACACCGACAACCCTAGCATCCAGGGCCAG
TGGCACCCCTTCACCAACAAGCCGACCACGTTCCGCGGGCTACGCCCCCGAGAGGTTCAG
GATCCTGCCCCAGCCCAGTGCCTGCTTCTGGGGGCAGTGACCTTGTGAACCACTCATTTT
TATGCAAGTGGCATCCCTAAAACCTGAGATGAGGAAGACTTCAAGGGTTTTACAGGGCCC
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TGGCTTCTG
Sequence=8043;DNA;Homo sapiens
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GGGCCAGGCCGCGGCTGCGGCCCAGGCAACGCCCTGAGGGTGGCCACGCTGCCAGGTGTT
CCACTCCCCCGGGACTATGGGCAAGGGCCCGGGGCGGGGAGGGCGGCAGGTGCTGACACT
GGAGCTGCGCCGGAGGTCGGGGAACTCGGCCTCCTAAGACTGAGGACACTCGCCTGCTGG
GCCGGTCGAGCTGTGCGGTGCCCTCCGGGACGCAGGGGGCGCTGCAGCCACGCTGGGTCA
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TTGGTCA
Sequence=8044;DNA;Homo sapiens

TABLE 2
1268/3461

CGACCCACGCGTCCGGAAAGATGGAGGTGTGGGGACAGGAGCTGGGTGTGCTGGGGACTG
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TCAGCACGTGCCCATCGACATCCAGACCAGCAAGCTGCTCGATTGGCTGGTGGACAGAAG
GCACTGCAGCCTGAAATGGCAGAGTCTGGTGCTGACGATCCGCGAGAAGATCAATGCTGC
CATCCAGGACATGCCAGAGAGCGAAGAGATCGCCCAGCTGCTGTCTGGGTCCTACATTCA
CTACTTTCACTGCCTAAGAATCCTGGACCTTCTCAAAGGCACAGAGGCCTCCACGAAGAA
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Sequence=8045;DNA;Homo sapiens
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GTGGGCGGATCACAAGGTCAGGAGATCGAGACCATCCTGGCGAACACGGTGAAACCCCGT
CTCTACTAAAAAAAATACAAAAAAATTAGCCAGGCGTGGTCGTGGGCACCTGTAGTCCCA
GCTACTCAGGGGGCTGAGGCAGGAGAATGGCGTGAATCCGGGAGGCGGAGCTTGCAGGGA
GCCGAGATAGTGTCACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCCGTCTCAAAAAA
CAAAAAGCCCGTGGCAATTAATGGTAAAGGAAACCCGGCATTTCAGTGTAAAGAGGTAAC
ATAAACGGATACTGCCTCATTGCAC

Sequence=8046;DNA;Homo sapiens
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GGGAGGAACACCAGTCCAGAGTTCTGTTTCTGGGAGCCTGGTCCCTGGCATACAGCCTCC
CTCCGTGGGACAGGCCACCAGCCGACCCGTCCCAAGTTCAGCAGGGAAAAAAATGCCTGT
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GACCCAGGGAGTGGCAAAGTTGCTGACCTCGCCGTCCCTAAAGCCCTCTGCAGTTAGTAG
TGTGACATCGTCTACCTCCTTGTCAAAAGGAGNCGAGTGGGACTGTGCTGCTGGCCGGCT
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CGAACTC

Sequence=8047;DNA;Homo sapiens
CGACCCACGCGTCCGGGAAGCGGTGCGCTCCGTACCAGGGAGTGCGGGAATCCGCCGTTT
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GGCCGGGGGCTGCACTGGAGGACTCCCGGTCCCAGGAAGGGGCAAATGGTGAGGCCGAGT
CAGGTGAGCTCAGCCGGCTTCGGGCTGAGCTGGCAGGCGCCCTGGCAGAAATGGAAACCA
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GGCAGTGCCAAGAGGAGGTGGCCTCGCTGCAGGCCATCCTGAAAGACTCCATCAGCAGCT
ATGAAGCCCAGATCACCGCCCTGAAGCAGGAGCGACAGCAGCAGCAGCAGGACTGTGAGG
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AGAACTCTGCTAAGCTCCGCTGCAGAGACAGGCAGGAGTAGACACCCGGACACCCAGCAC
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GCTCAGTGGATGTTTGAACTTGC

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TABLE 2
1269/3461

TGTCCAATCACCTCGCAGGAGCCCTAGGATTTCCTTTTTCTTGGAGAAAGAAAACGAGCC
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CGCCAGAGACTTGGAAATGTCTAAGAAAGTCAGGCGTTCCTACAGCCGGCTGGAGACCCT
Sequence=8050;DNA;Homo sapiens
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GACAATGCCC
Sequence=8051;DNA;Homo sapiens
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CCAATGGATTCTGGTCAACTGGTGGAGATTGGCTGACACCCTGGAGAAGCCGAAACCAGA
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CCAGGGGCCTCTA
Sequence=8053;DNA;Homo sapiens
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CTTCTTTGAAGGCCTATGGCAATGGCTACTCCAGCAACGGCAACACAGGGGAGCAGAGTG
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AAGACTTTGTGGGC
Sequence=8054;DNA;Homo sapiens
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Sequence=8055;DNA;Homo sapiens
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TABLE 2
1270/3461

GATCTCGGGTCACCACAACCTCCGCCTCCCGGATTCAAGCGATTCTCATGCCTCAGCCTC
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TTCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAACCACTGCACCCGGCGAGGC
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ACC

Sequence=8056;DNA;Homo sapiens
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TAAACGACCCTTCCTCATATTCCCTTCCCTCCACCTCTCCTTACCAAGCACCCAAAAGAG
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CC

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GAAGCGGAGACCCCGAGGAACCCAGCAGGGTCACCATTTGCAGCGCAACATGGCAGGAGC
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TGTAGCAGAAGCAGATATAATTTCTACAGTAGAATTT

Sequence=8058;DNA;Homo sapiens
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Sequence=8060;DNA;Homo sapiens
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TABLE 2
1271/3461

TATGTACCAGAATTCCAACATCCAGATCCACCACTATCCTAATGGGATTGTAACTGTGAA
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Sequence=8062;DNA;Homo sapiens
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CCGCGGCGAGAGCCGCACCCCGCGGAGGCGGAGAAGCAGCAGCCGCAGCACAGCAGCAGC
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TCGGGCACTGGAGAAAAGAAG
Sequence=8063;DNA;Homo sapiens
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ATGGCCAGAAAACTTTTGGGAGGACCTTATCATGTCCTTCACTGTATCCATGGCAATCGG
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AACTGAGAGTCAGCTGGTGACTCTC
Sequence=8064;DNA;Homo sapiens
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Sequence=8066;DNA;Homo sapiens
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Sequence=8067;DNA;Homo sapiens
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TABLE 2
1272/3461

TGTGACCATCTTTCCTGAGCACCAAGGGCTTCCCCTTTTGTTGCCAAAAAGGTAGTTCTC
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AGTATTAGCTTTGAGCACTGCACTG
Sequence=8068;DNA;Homo sapiens
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GGCAGATAATGCCTTTATGTTACTTACTCAGGCTCGATTATTTGATGAACCTCAGCTTGC
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AGAAAGTCGACTTTTTGGAGCTGTTGTACGCTGGGCAGAAGCAGAATGTCAGAGACAACA
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Sequence=8069;DNA;Homo sapiens
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Sequence=8070;DNA;Homo sapiens
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Sequence=8071;DNA;Homo sapiens
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Sequence=8072;DNA;Homo sapiens
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Sequence=8073;DNA;Homo sapiens
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Sequence=8074;DNA;Homo sapiens
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AAA
Sequence=8075;DNA;Homo sapiens
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TABLE 2
1273/3461

CAGCGGAGGTCAGCGGGGGTCAGCAGCAGCGGCTCCGAGGGCGCGGCGGACGCAGGATGT
ACACGCTGCTGTCGGGCTTGTACAAGTACATGTTTCAGAAGGACGAGTACTGCATCCTGA
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Sequence=8077;DNA;Homo sapiens
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TABLE 2
1274/3461

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2
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Sequence=8109;DNA;Homo sapiens
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GGGGTTGGAGCCCCCAAACAGAGTCCTTAGTGGGGTGCTGCCTAGTGGAGCTGTGAGAAG
AGGGCCATCATCCTCCAGACCCCAGAATGGTAGATCCACTGACAGCTTGAACTGTGCACC
TGGAAGAGCCGCAGACACTCAATGCCAGCCCGTGAAAGCAGCCAGAAGGGAGGCTGTACC
CTGCAAAACCACAGGGGCAGAGCTGCCCAAGACTGTGGGAACCCACCTCATGCTTCAGTG
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Sequence=8110;DNA;Homo sapiens

TABLE 2
1279/3461

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Sequence=8111;DNA;Homo sapiens
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TCACGTCTTGCAGGGCACCGGAGAATTCATACTGGAGAGAAACCCTACAAATGTAATGAA
TGTGGCAAGGTCTTCAGTCAACATTCACATCTTGCAGTGCATCAGAGAGTTCATACTGGA
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Sequence=8113;DNA;Homo sapiens
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CAGCATTTCTGTGGAGGGTAATCCTGCTCTTAATCGTGTGAGATGGACCCATTCTGGCAG
AGAGATTGCTGTGGGTGATTCTGAAGGACAGATTGTTATATACGATGTGGGAGAGATTGC
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CAGATAGAAAATGTCTTGAGAAGATATATCAAGGAATTTGTCACTTGTCACACATGCCGA
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Sequence=8115;DNA;Homo sapiens
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TABLE 2
1280/3461

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Sequence=8122;DNA;Homo sapiens
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TABLE 2

1281/3461

TTGTCATTTTATTATCTGTCTAGCAGAAAAATCAAATGGGTAAATTAGCACTTTAGACAG
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Sequence=8123;DNA;Homo sapiens

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Sequence=8124;DNA;Homo sapiens

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AAA

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TABLE 2
1282/3461

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TABLE 2

1283/3461

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TABLE 2
1284/3461

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Sequence=8141;DNA;Homo sapiens
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TABLE 2
1285/3461

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TABLE 2

1286/3461

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Sequence=8155;DNA;Homo sapiens

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TABLE 2
1287/3461

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TABLE 2

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TABLE 2
1289/3461

Sequence=8171;DNA;Homo sapiens
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2

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Sequence=8208;DNA;Homo sapiens

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Sequence=8209;DNA;Homo sapiens

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Sequence=8210;DNA;Homo sapiens

TABLE 2
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TABLE 2

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TABLE 2
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TABLE 2
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TABLE 2
1300/3461

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TABLE 2

1301/3461

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Sequence=8240;DNA;Homo sapiens

AGTCGACCCACGCGTCCGAACATCGTCAACTACGGCATCCCAGCCCACCGTGACATCGAC
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GACGTGGACGAGTGCCTGGACGAGTCCAACTGCCGGAACGGAGTGTGTGAGAACACGCGC
GGCGGCTACCGCTGTGCCTGCACGCCCCCTGCCGAGTACAGTCCCGCGCAGCGCCAGTGC
CTGAGCCCGGAAGAGATGGACGTGGACGAGTGCCAGGACCCGGCAGCCTGCCGCCCTGGC
CGCTGCGTCAACCTGCCGGGCTCCTACCGTGNNGAGTGTCGCCCGCCTTGGGTGCCCGGG
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Sequence=8241;DNA;Homo sapiens

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GCAGAAGGCAGAGGAGCTAGTGAAGGACAACGAGCTGCTCCCACCACCTTCTCCCTCCTT
GGGCTCCTTCGACCCCCTGGCTGAGCTCACAGGAAAGGACTCAAATGTCACAGTATCTCC
CACAGCCCCTGCATGCCCCAGTGACAAGCCAGCACCAGTCCAGAAGCCTCCATCCAGTGG
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Sequence=8242;DNA;Homo sapiens

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Sequence=8243;DNA;Homo sapiens

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Sequence=8244;DNA;Homo sapiens

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GTTTAAAAAACCTTTGAAAAATATACAGCTTGATATTATTTACATAAAATATGAATCCAG
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Sequence=8245;DNA;Homo sapiens

TABLE 2

1302/3461

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Sequence=8246;DNA;Homo sapiens

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Sequence=8247;DNA;Homo sapiens

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Sequence=8248;DNA;Homo sapiens

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Sequence=8249;DNA;Homo sapiens

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Sequence=8250;DNA;Homo sapiens

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TABLE 2

1303/3461

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Sequence=8251;DNA;Homo sapiens
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TABLE 2

1304/3461

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Sequence=8257;DNA;Homo sapiens
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TABLE 2
1305/3461

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Sequence=8263;DNA;Homo sapiens
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TABLE 2
1306/3461

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Sequence=8269;DNA;Homo sapiens
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Sequence=8272;DNA;Homo sapiens
GTCGACCCACGCGTCCGGGCGCCAGGCTAGGGCGGCCTGGCCACTGAGCCGGGGTGCAGT
GGCAGCGGGAGAGTACCTGGCGATGGCGATATGAGCGGTGCGGGGGTGGCGGCTGGGACG
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GTCCAGTCCTTGAGGCCGCAGAGCCCGCAGCTCAGGCAGAGCGACCCGCAGAAACGGAAC
CTGGACCTGGAGAAAAGCCTGCAGTTCCTGCAGCAGCAGCACTCGGAGATGCTGGCCAAG
CTCCATGAGGAGATCGAGCATCTGAAGCGGGAAAACAAGGGTGAGCCGGCGCGGGGCCCT
AGGCCGGCCCTGCCTCCCCAGGCACACTCAACACTGCCGCTCCCGCAGCACAGAAACACA
GCCATTAACTCCAGCACACGCCTGGGCTCAGGGGGAACACAGGACGATCTCCATTACAAG
CTCATAATGAATCAGACATCACAGAAGAAAGATGGCCCC

Sequence=8273;DNA;Homo sapiens
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AGAAACAAGAGCCGGAGCAGGGAGAGGTTGGGAAGAGGCCTGGACAGGCCCCAGGCCTTG
GAGGAGGCGGGTGATCTTCCTGAAGATCCCCAGAAAGTTCCAGAAGCAGATGGTCAGCCA
GCTGTCCAGCCTGCAAAGGAGGACCTGGGGCCAGGAGACAGGGGCCTGCATCCTCGGCCC
CAGGCAGTGCTGTCTGAGCAGCAGAACGGCCTGGCGGTGGGTGGAGGGGAAAAAGGCCAA
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Sequence=8274;DNA;Homo sapiens
CCACGCGTCCGCAGAAACATATGTGTAGTGTGCTGCAGCATAAGATGGAAGAACTTAAAG
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TABLE 2
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GCACTCCCAATGGTGATGTCAGTCATGAACCAGTGGCTGGAGCCATCACTGTTGTGTCTC
AGGAAGCTGCTCAGGTCTTGGAGTCAGCAGGAGAAGGGCCATTAGATGTAAGGCTACGAA
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AGGAGGAACGACAGAAATGCTCCAGGAATGATGGCACAGTGGGTGACCTGGCAGGACTGC
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AATACAAATTTAAGCTTTCAAAAGCAGAACAGGATATAACTACCTTGGAG
Sequence=8275;DNA;Homo sapiens
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Sequence=8276;DNA;Homo sapiens
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TAGCACGCACCTACGTGAAACAGACAAGAATTAGGATGCGTAAATGAGAATTCTCAAGTT
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CATAGCAAAGTCCATGTTGACCTCAAAGCTTTATGAGGATAGTGCTGTGGCAGTTTCCGC
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Sequence=8278;DNA;Homo sapiens
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CCAAAGAGGTCTGTAAGGGGCTGGTGAAAGATTAGTGGTCCAGGGCCCTACATCCGGGAG
GGGGTTCGGGATAAAGAGAACTAGTCTTGGGAACAATGTAGGTGGGAACTTTAAGGAATG
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GGTATAGAGTTGAGTCAAGTGGAGTCACTGCCTCTGTCCCTCTGGTCAGCGTGATGGCCA
GAGGCCTGGGGGCCCCCCACTGGGTGGCC
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GCTGTCACCTCCCGCAGGACCCAAATCCTCTCTCTGAGCACCGTCATCCACCACATGGCT
GGGCCTGGGTTCCAAGAACAAGCCAAGCCTTTTAGGGCCTAATTGAAGGTTGAAGCCGCC
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CCCCAGGTGTCCTGACTGAAGCACAGGCCATAGCCCCATTTTCCCG
Sequence=8280;DNA;Homo sapiens
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CTTTATGACTTTGAAGTGAAAGACAAGGAAGCAGACAAAGATTGCCTTCCATTTGCAAAG
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TABLE 2

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ATAGAATGGGATAAGCCTCCTGTGCCAGGAGTTGATGCTGGAGAATGTTCCTCGGCAGCA
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TCCTTCACTTCCCTCACTATGGCCAACAAGTCCTCCCAGGCA

Sequence=8281;DNA;Homo sapiens

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GCAGTGGGCGCCTTTGAGGCTTAAAAGTGCCTCAAGATTCTGTCAATCGGGTGGCATGCT
ATCTTCTTTTGACGCACTATTACCAGCCAGCAAAGAAAATCCTGGGGAGCTTCTGAACCC
CGAAGGCACCTGTTACCACCGTTCAGTGAAACTTGCTTCAGAGGCAGAAAGAAGCAGGTT
TCCAAGCAACAATCAGTGCTCCACACATGCATGCATATGCGCTAGAACTTCTATTTGATC
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Sequence=8282;DNA;Homo sapiens

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GTCTGACTCGGAGGCCAACGGCTTCGCCGAGCGCCGCATCGACAAGTTCGGCTTCATCGT
GGGCTCGCAGGGCGCCGAGGGCGCGCTGGAGGAAGTACCCCTGGAGGTGCTGAGGCAGAG
GGAGTCCAAGTGGCTGGACATGCTCAACAACTGGGACAAATGGATGGCCAAGAAGCACAA
AAAGATTCGTCTGCGGTGCCAAAAGGGCATCCCGCCTTCTCTGCGAGGCCGTGCTTGGCA
GTACCTGTCAGGAGGCAAGGTGAAGTTACAGCAGAACCCTGGAAAGTTTGACGAGCTGGA
CATGTCCCCTGGGGACCCCAAGTGCTGGGACGTGATGGAGCGTGA

Sequence=8283;DNA;Homo sapiens

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AGTCTTCGTATATCGTACAGCTGTCTGCATTGAAAATTCATGCATGGGGAAAGGGAGTAA
GCAAGGGAGAAACGGTGCGATTCACATATTCCGCGAGATCATCAAGCCAGCAAAGAAATC
CCTCCATGAAAAGTTAAAACAAGATAAGCGCTTTAGCACCTTTCTCAGCCTACTTGAAGC
TGCAGACTTGAAAGAGCTCCTGACACAACCTGGAGACTGGACATTATTTGTGCCAACCAA
TGATGCTTTTAAGGGAATGACTAGTGAAGAAAAAGAAATTCTGATACGGGACAAAAATGC
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Sequence=8284;DNA;Homo sapiens

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GGAGAGGAGATGGAAAGCAAAGATGATTAAGTGAAATAATTGTGGGAAACAATAGAGGGA
TAGACTTTGCTTATAGGGGATGTGGACAGAGCAGAAAAATGGGAGGAATGGGGAGGATTC
AGTTAGAGAAGGAAGAAACCGGTACCAAGGGGCTGGGGCTTTAGGCCCTGGGGCCTCCAG
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Sequence=8285;DNA;Homo sapiens

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ACTTTTATTAAAACATATATGGATGTGGAAAGCACATATATTAATGCAGTCATCCCTTTT
CAGGTGGGAAGAGAGCAAACCAGTTGATTTTTTAATTCATCCTTAGTACACAGAGAATAT
ACTTT

Sequence=8286;DNA;Homo sapiens

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TABLE 2

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Sequence=8287;DNA;Homo sapiens
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TGCTCTCTTAAATGGCAAATTAAGTTAAAGAATACTACTGCTCCATTCCCCTCACTTATT
CTCCAGTTAATTGCTTGTCAGTTCCATTTCAAGAAAGCAGTGATGTTCCAGGTTTGATTC
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TAGAGAAA
Sequence=8288;DNA;Homo sapiens
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GCGTGCCAGCGGCGTGCGATTCTGTGAGGCCTGCTCTGCGCCGGCGGGGAAGCGCGGGCG
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Sequence=8289;DNA;Homo sapiens
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Sequence=8290;DNA;Homo sapiens
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Sequence=8291;DNA;Homo sapiens
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Sequence=8292;DNA;Homo sapiens
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TABLE 2
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AGAGAAGACACAGATGTGATAGCCTTAATGCAGCACTTATTAATATGAAGTGCTCCTTTG
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Sequence=8293;DNA;Homo sapiens
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GCTGAAACCAGCCCCCAGGACTCACCGAAGGCCTGGGGGCGGCCAGAGTGGAAATCATTG
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Sequence=8294;DNA;Homo sapiens
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Sequence=8297;DNA;Homo sapiens
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Sequence=8298;DNA;Homo sapiens
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ATCCTGTGCAAGCTGTGCAGCGTGCACTGCAAGACCCCTGCCCAGCTGGCCGGCCACATG
CAGAC
Sequence=8299;DNA;Homo sapiens
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CTCGCCACCCTCGGCCTGCGGCTCAGCCCTCNNNCCNCANNANNNATGGCGGTTCAGGGG
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Sequence=8300;DNA;Homo sapiens

TABLE 2

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TTGTAGAAAAATACGATCCTACGATAGAAGATTCTTATAGAAAGCAAGTTGAAGTAGATG
CACAACAGTGTATGCTTGAAATCTTGGATACTGCAGGAACGGAGCAATTTACAGCAATGA
GGGATTTATACATGAAA

Sequence=8301;DNA;Homo sapiens
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Sequence=8302;DNA;Homo sapiens
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ACCCCACCCCCTGTTTTCAGGGGTTTAGACTACATTTGAAATCCAAACTTCGAGTATATA
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TTTCTT

Sequence=8303;DNA;Homo sapiens
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Sequence=8304;DNA;Homo sapiens
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CTTTCCCACTCGTGCACAC

Sequence=8305;DNA;Homo sapiens
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GGATTAAGCCAAATCCAGGTGCACCCAGCATGTCCTAGGAATGCAGGCGCAGGAAGTCCC
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Sequence=8306;DNA;Homo sapiens
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ACCCGATCGGAAGCGGATCCTTTACCAGGGCCATATGCCAGTGA

Sequence=8307;DNA;Homo sapiens
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TABLE 2
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GTTTTACTCTGCATCAGACCGCTTTCTAGTTCTATGACTTAACGTCCTATAGGCTGTAAG
GTTCTCTGCGTGAACACTTCTTTCCTGGCCTCCTTTCTGCCCCATTCCTTTTAAACTCAG
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ACT

Sequence=8308;DNA;Homo sapiens
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Sequence=8309;DNA;Homo sapiens
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Sequence=8310;DNA;Homo sapiens
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Sequence=8311;DNA;Homo sapiens
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TABLE 2
1313/3461

Sequence=8313;DNA;Homo sapiens
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TABLE 2
1314/3461

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Sequence=8324;DNA;Homo sapiens

TABLE 2

1315/3461

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Sequence=8326;DNA;Homo sapiens

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TABLE 2
1316/3461

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TABLE 2
1317/3461

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TAACAATATATGCTGTTCAATTTGAAAACAGAATAAAATTATTTTGGCAGAAAAAAAAAA
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Sequence=8341;DNA;Homo sapiens
AGTGTCACAGCTGGCTTTCCTCACTTGGGAAAAGGGTACTGCCAGTCTAGCAGCCTCCTC

TABLE 2
1318/3461

TGTACTCAGCCAGGACACCCAGCGCGTGGGACCTGTTTGTGTCTGTTTTGCTTCCTTGGG
AACGGCACAGTCACTCACCCTGCCATTTGCGGAAATGACCTGGTGCACTTTGACTGTTAA
GCAATGCGTTATTGCTGTAGTCAAGGTTAGTGCAAGCAAGGAAACATTCCCAGTAAGGTA
TTTGTTTCCATTTTCTGTCTGTGCTTCTGTCAGAAACTTGCTAGGACTTTAGTGGCCAAT
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TGCCCGAATTAGCATGGCTGATGTCAAGTTCTCTTTCCAATGTCCTGGTCGCATGTATGC
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AGCAGACATGTGGAGTTTTGCAGTGC

Sequence=8342;DNA;Homo sapiens
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TAGACACAACAACATTGAAATCAGACCAATTAATAACCCTACAGTGGTCTCTGAGAGAGG
CTAACAGCTAATCCTCTTGTGCTAAACAGCCAAATTGTGAATGCAAAGGAAAAGTTCTCA
AAGGAAATTAAAAGTGCTACTCCAGTGAACACATGAATGATAAGAAAGTGAAACAGTCCG
GGCGTGGTGGGTCACGCCTGTAGTCCCAGCACTTTGGGAGGCTGAGGTGGGTGGATCACC
TGAGGTCAGGAGCTCAAGACCAGCCTGGCCAACATAGTGAAACCCTGTCTCTACTAAAAA
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Sequence=8343;DNA;Homo sapiens
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ATGTGGAAGCCAAGGACTGTCTGAACGTGCTGAACAAGAGCAACGAGGGTATGGGGTAGG
CGGGTGAGGGTAACCTAAAGTGGCGAACCTGCTTCTCTCGTCCCACCTCCTAACCCAGTT
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ATGTTGCCTGCCTAGAATTGAAAAGTACAGGACATTCCTCTGCTCCTATTGCCCCTGTTT
CCGTTCTTTTCACACTGTCTGTGGGTGCTGTGCCCTGTTGGAACTCTCTTTAACGTCTTA
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CTCATCGATGTGGGAACT

Sequence=8344;DNA;Homo sapiens
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TGGTTTCCCTGAAGGCGCCTGGGCGTGTTGGTGTTAACTGATCTGAGATCTTCTGTGGCC
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Sequence=8345;DNA;Homo sapiens
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Sequence=8346;DNA;Homo sapiens
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TABLE 2

1319/3461

TACTCCATGGTCTTCAAAGACCAAAAAATGAGGTTTTGCTTTTGTAATCAGGAAAAAAAA
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Sequence=8347;DNA;Homo sapiens

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CAAACTGCCGAGGAGCTCCGCCTCCCGAGAGACATTTAATCCGGGGGGGATTTGCAGGAAA
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CTGGGTCCGGCTGTCACTCAGAGGAAGCACGGAGCCCCCAGCCCAAGGGTCCCCTCCCCT
TCGCATCGCCGGGGTTTTTCCAGCCGACCGTCGGCCACTTTTTCCTCCGACGGCTGGCAG
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Sequence=8348;DNA;Homo sapiens

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Sequence=8349;DNA;Homo sapiens

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CCCAGCTGCAGAACTTCACCCTGGACAGGAGCAGTGTCCTTGTGGATGGGTATTCTCCCA
ACAGAAATGAGCCCTTAACTGGGAATTCTGACCTTCCCTTCTGGGCTGTCATCCTCATCG
GCTTGGCAGGACTCCTGGGACTCATCACATGCCTGATCTGCGGTGTCCTGGTGACCACCC
GCCGGCGGAAGAAGGAAGGAGAATACAACGTCCAGCAACAGTGCCCAGGCTACTACCAGT
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AAAAAAAAAAAAAAA

Sequence=8350;DNA;Homo sapiens

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AATGGCGTGAACCTGGGAGGTGGAGGTTGCAGTGAGCCAAGATGGCACCAGTGCACTCCA
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CCCCATTCCCAAAAAGGTCACCTTCACCAGTAAGTTGGGGGTTAGGACTTGAATATAGCT
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AGATTTTTGAGATTTGCCAATATATGAAGCTATAAATTATCAAGGAAAATAAATAATTCA
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Sequence=8351;DNA;Homo sapiens

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CACTCTAAGTCATGTATGTTTCTCTTTGATTATTTGCATGTTATGTTTAATAAGCTACTA
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TABLE 2
1320/3461

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Sequence=8352;DNA;Homo sapiens
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GAGCATAGTTAATTTGGTAAACAACAGACAATTACATACTGTGATCATAAGGACTTTAGT
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Sequence=8353;DNA;Homo sapiens
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Sequence=8354;DNA;Homo sapiens
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Sequence=8355;DNA;Homo sapiens
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AATGT
Sequence=8356;DNA;Homo sapiens
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Sequence=8357;DNA;Homo sapiens
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TABLE 2

1321/3461

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ACAGCTTGAGTAGGCAGGGGGGAGTAGGACATGACGGCTGCCTCATCTTAACACCTTGGG
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GGATGAATTCACCACCCT

Sequence=8358;DNA;Homo sapiens

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TGCAGCAAGCCCAGGCACTTCGGGCTGTCCCCGGCCCCCAGAGCCCGGGCACCGTGGTCA
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GGGTTCCAGAGGGGCCCACGTGTCCCTCCACCTCCTCCCTGGCCCAGGCTGCAGAGCCTG
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Sequence=8359;DNA;Homo sapiens

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ACACACGGGAGGAACTGAGAAAGAAGGCTAGGGCCATCGGCTGGAGGGACAGGACAGGTG
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Sequence=8360;DNA;Homo sapiens

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CATTACCTAAAGCAAAATGAGGACCCTACTGGGCTGCCATCCCAGCTGGACTGCTGCTGT
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TGGTGCCC

Sequence=8361;DNA;Homo sapiens

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TTGTCGTATGTGTTGCAGGTGCTTTTCCAGTTTGCCAGTGGTCATTCATTTTGGTTTATG
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Sequence=8362;DNA;Homo sapiens

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TABLE 2

1322/3461

AGAGACAAGGTTTCTCCTATCAGGGTCGGGCTTCCAGGCTGGATGGAGTGCCCTGGCGCG
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TGAGCAGCTGGGATTATGAAGGGGTGGCCTGCCCCTCCACATCTGTGGGATATCTCATCA
GAGATGCCAGTGGGGCTTGAG

Sequence=8363;DNA;Homo sapiens

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AACTGATATAAGTAATTTTTTTTAAATTCTTCAGATATAATGAAGATCTGGAACTTGAAG
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Sequence=8364;DNA;Homo sapiens

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GGAGCTG

Sequence=8366;DNA;Homo sapiens

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CNNGNNNNNAAAAAANGNANNGGGAGAGAGNGAAGACAGGGGGGAGGGGGNAAAACAAAG
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CGCAACAAGGGCGCCGAACAACACCCAAGAGAGGACACGCCGAACAGAAGGGAACACAAA
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Sequence=8367;DNA;Homo sapiens

TABLE 2

1323/3461

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AATTTTCTTTTTTAATTTTTCAGTGTATTGTGGACATCTTTTCTCATCAACAAATACATC
CCACAATGTTCATTTTTGTGCCTCATTATACCATGGAATAGTGACATCCTAGTATGTTTA
AGACATTCCTTATTAATGAACAATTAGGCTACTTCCAATTTTTAATTATAAAGGACATTT
TGAAGGACTTCCTTGTACATATTATTCTATTGCTTTATCATCTTTTTGGGATAATTTCAT
GTAGTATATTTCCAGTTATTTAAATGAGAAAGTACATGGTTTATAACAAATGGTATTTAA
CGTCCAAGTCACTGCTATCTAAAGGGGTAATTTTTAAGGTATAAAATAATTTGGCTTATA
AAAAATGCGTGGGAAAAATATCCTAGAAATATTTAAGGATTAACTTCTAAATTGTAAATT
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Sequence=8368;DNA;Homo sapiens

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Sequence=8369;DNA;Homo sapiens

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TAGGATAGAGTCCTAAGAATGGCATTACTGGGTTAATAGGTATGAACATTAGATCTTTAA
TACATACAGTCGAATTACTTTTCATAAAGCCATATACCTTTTTATATTCCCACCGATACT
ATCCCTATCACTAAGTATTAACTTATTTTCATCTTTGCCAATATGATCATCCAAAGTGAG
GCAGAGGTTGCAGTGAGCCAAGGTCACACCACTGTGCTCTAGCCTGGGTGCCAGAGTGAG
ACTGTGTGTCAAAAGAAAAAAAAAGGGGGGGGTGCCGGGTGCGGTGGCTCACGCCTGTTA
TTCCAGCGCTTTGGGAGGCCGAGGTGGGCGGATCACCTGAGTTTGGGAGTTTGAGACCAG
CCTGACCAACATGGAGAAACCCTGTCTCTACTAAAAATACAAAATTAGCCAGACGTGGTG
GCACATGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCG

Sequence=8370;DNA;Homo sapiens

TCGACCCACGCGTCCCGGACGCGTGGGTCGGCCATGAACAAGTTTTCAAGTATCAGTTGA
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CAAATAGTTTCTGTATAATAACTGGCAGAGTAGCTCTAAAACATATGCAAGGAAATAAAT
AAAGAAAAAACTTACAATAAAGAGAGTAACTCATATTTTAACAGTTTTGTGAAAAAAATA
GAAAATATTTTATGTAGCTTATAGTACATATATTTTTTTACAACAGAAGAATCGCATTCT
GATTTTCCATATGGATCATTTCCCTATGTTGCTAGACCAGTACACTGGCAACCTGGTCAT
ACAGCTTTTCTTGTCAAGTTGAGGAAGGTCAAACCACAACTTAACTGAGTACTCCAGATG
ACAGTAACTGACTTGAAGATGGAAAAATATCAAAATAGAACTNTATATTGAAAATCACTG
CTTCCATAGATTGGCATTTTTAGCTATTACTATGACTTATATAACTTATACATATAATTT
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ACTTGT

Sequence=8371;DNA;Homo sapiens

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GGCGCTCCTCGCGTTCCTTCCGGGCTCCAGGTGTCCGTGAGCCTCCCTTCCGCCCTGGCC
TCCGGTCTCTGCCTTGCTCGTGCTTCTACCACCACCCTTCCCCTCCCAACCCGGTGGATC
CTCTCGTCTCCCCCAGTCTCCAGTGCACCGGCTTTCCCTCGTCCTCTGCGCAGTCCATCT
CAGCTCATCTCTCCAATTCAATGCCATCATCTCTCCTCACCATCTCTCGGTGCCCTGGAA
TGTTTGCTGTCAGATGTCCCCTGTGAAACCCACAAACGCTTGCGATTTGGCCTCCTTGTT

TABLE 2
1324/3461

TTATTTTGTGTAGTCCTACAACGTCTTGTTACTACCCCCTATTACAACACTTATAACTCA
NANNGNAANANNAANNANNGGTGCGGCCGCTAGACTAGTCTAGAGAAAAAACCTCCCACA
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Sequence=8372;DNA;Homo sapiens
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GGCAAGCACGAGGAGCGGCAGGACGAGCATGGCTACATCTCCCGGTGCTTCACGCGGAAA
TACACGCTGCCCCCCGGTGTGGACCCCACCCAAGTTTCCTCCTCCCTGTCCCCTGAGGGC
ACACTGACCGTGGAGGCCCCCATGCCCAAGCTAGCCACGCAGTCCAACGAGATCACCATC
CCAGTCACCTTCGAGTCGCGGGCCCAGCTTGGGGGCCCAGAAGCTGCAAAATCCGATGAG
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GATGCTGCCACTGTGTAAGGAAGTAGTTTTATAAACCATGGGCAAATCATCTGAGCTTTC
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CGCTTCGAGGCTTAAGGTCGACAGATCGGAGGCATCGCTGTGTTGTCTGTGCGGAGAAGC
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CGGGAGGCTGAGGCAGAATGGCTTGAACCAGGGAGTCGGAGGTTGCGGTGAGCAGAGATC
GCACCACTGCACTCCAGCCTGATGACGGAGCAAGACTCCGTCTCAAAAAAAAAAAAAAAA
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Sequence=8375;DNA;Homo sapiens
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Sequence=8376;DNA;Homo sapiens
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CGGATAGACTTGTAAGGGTGTTTGCTGCATACAGTGTAAGCATTGTGACCGCCAATAAAC
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TABLE 2

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Sequence=8377;DNA;Homo sapiens
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GTTCGGGGGCTGCCTTCAGCAAGATTCAGGCAGGAGAGACGGAAATAGCCACCTTCCAGG
CGTGAGTCCTGGAGATAAAAATGGATTTTAACCTAGGACTGCCGGGAGCTGGCCCTCCGC
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TGTTTCTCTTTATGGCTTGGCTTCATTCCGACCTGGGGTGGGGCCACATCCAACCCACTG
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Sequence=8378;DNA;Homo sapiens
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AAAGGCACTGTCTCTTCTGCATGTTGCAGACAAAAAGTGG
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CAAGTGCTATGGGTGTAAAATTCATGATAGCTGGCCCACAGGTCATGAATTGAGGAG
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TABLE 2

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CCATGAGACAATCCCCACCCTGAGAAGCTCCGATCACTGGGAGGAGAGAGAAAGCCTCCA
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TCACACGTTGTGGAACTTTCCTGCAACTTCTGGATGCAGACAAGCCTCAGAGCAGACTGT
TCTGGCTCCAGCGAATATCGGCTGCCAAGCTGTGAGCATCCAGGGATCCCCGTCTGCCTG
GCTGTCCTGAAGTCAGAAGGCGCCTTGGTCATACTGTGTGGGGTGTGTGGATTTTCAGTT
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CTCTCAGGTAGGTCTGCAGAGTGTCCGTCGTTCCCCTCCCCCAGCTACTGTGATGCTGAT
ATGCTGCTCTGCGCAGGTGCACTGCATGGATGATGTGTGTGGGCTCCTGCCTTTTCTCAA
CCCCGAGGTGCCTGACCAGTTCTACCGCCTGTGGCTATCCCTCTTCCTGCACGCCGGGAT
CTTGCACTGCCTGGTGTCCATCTGCTTCCAGATGACTGTCCTGCGGGACCTGGAGAAGCT
GGCAGGCTGGCACCGCATAGCCATCATCTACCTGCTGAGTGGTGTCACCGGCAACCTGGC
CAGTGCCATCTTCCTGCCATACCGAGCAGAGGTGGGTCCTGCTGGCTTCCAATTCGGCAT
CCTGGCCTGCCTCTTCGTGGAGCTCTTCCAGAGCTG

Sequence=8385;DNA;Homo sapiens

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Sequence=8386;DNA;Homo sapiens

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TTTTTCACTGCA

Sequence=8388;DNA;Homo sapiens

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ATGGAGTGGGCTTCAAGAAGCGTGCACCTCGGGCACTCAAAGAGATTCGGAAAATTGCCA
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CCAAAGGAATAAGGGAAT

Sequence=8389;DNA;Homo sapiens

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TABLE 2
1327/3461

TGATTGGCCAGACCTCAGCTATTGTTACAGGCACATACTCTTAAGTCAGGTTTTCAATCC
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GATCTGTGAGCAGCCTGCAGCCAAGCTTTGAGATCATATTGAGATTTTTTTGTAATA

Sequence=8390;DNA;Homo sapiens
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Sequence=8392;DNA;Homo sapiens
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TABLE 2
1328/3461

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Sequence=8396;DNA;Homo sapiens
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Sequence=8397;DNA;Homo sapiens
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Sequence=8398;DNA;Homo sapiens
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TABLE 2

1329/3461

TACTTTAGAATCTTTGGCTGGTTTTACAGTTTTGGGTTTTCTTAGCACTTGGCCTGGTCC
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GGGTTTATCATTTTTTCTAGGCCTGAAAGTTTTGGGCATTCCTCTTTCAGAATCTAGATT
AATACCTAAAAATCTTAAAACTTGTTTTTTGAGAATATTTACTCTTCTGACAAATTCTTC
GATTAAACTTTCCTCAGATTTTAAGTTAGCTAAAACAAAAATCCCTTGTTGGGGTTTTTT
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Sequence=8402;DNA;Homo sapiens

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Sequence=8403;DNA;Homo sapiens

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Sequence=8404;DNA;Homo sapiens

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Sequence=8405;DNA;Homo sapiens

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ACCCTTCGAAGACTCTTCGGGGAAGGGCGCGGTGCTAATGATTTAAATTCCAGGGGTCTC
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Sequence=8406;DNA;Homo sapiens

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TABLE 2

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ATGATAAAAAGGGAATGTGGGTGTGTAACTTTTGTGTATGTCCCGTTTCCAAATTTCCCT
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Sequence=8407;DNA;Homo sapiens
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Sequence=8410;DNA;Homo sapiens
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Sequence=8412;DNA;Homo sapiens
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TABLE 2

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TTACCCAACTTAATC

Sequence=8413;DNA;Homo sapiens

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CTTCCTCGC

Sequence=8414;DNA;Homo sapiens

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Sequence=8415;DNA;Homo sapiens

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Sequence=8416;DNA;Homo sapiens

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Sequence=8417;DNA;Homo sapiens

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TABLE 2

1332/3461

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Sequence=8418;DNA;Homo sapiens
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TABLE 2

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CTCAGGAAATAAATTTCCTTGACTTTAAAAAAAAAAAAAAAAAGAGGGGGGCCCTTAAAC
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Sequence=8423;DNA;Homo sapiens
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Sequence=8429;DNA;Homo sapiens
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TABLE 2

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Sequence=8430;DNA;Homo sapiens

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Sequence=8431;DNA;Homo sapiens

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AAAAA

Sequence=8432;DNA;Homo sapiens

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Sequence=8433;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGACAGTGTGATGGATATCTGCAGAATTCGCC
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AACAGGTGTAATTACCCCAGAAGAGTTTGTGGCAGCTGGAGATCACCTAGTCCACCACTG
TCCAACATGGCAATGGGCTACAGGGGAAGAATTGAAAGTGAAGGCATACCTACCAACAGG
CAAACAATTTTTGGTAACCAAAAATGTGCCGTGCTATAAGCGGTGCAAACAGATGGAATA
TTCAGATGAATTGGAAGCTATCATTGAAGAAGATGATGGTGATGGCGGATGGGTAGATAC
ATATCACAACACAGGTATTACAGGAATAACGGAAGCCGTTAAAGAGATCACACTGGAAAA
TAAGGACAATATAAGGCTTCAAGATTGCTCAGCACTATGTGAAGAG

Sequence=8434;DNA;Homo sapiens

TTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG
CCCTTAGCGTGGTCGCAGCCGNGGCACTTTCTTTTTTTTTTTTTTTTTTTTTGCTTTTTTT
TTTTATATATTTTTTTTTATTTTTTTTTTATACCTTTCCAAAACATATACTTTTAACATTT
ATTTATAATGGCCAGCTCCCAACATTTTAAAAAAACTGCACCCCCCAATGGGTGAACAAA
GTAAAGAGTAGTAACCTAAAGTTCAACTGAGTAAGCCACTGTGGAACCTTAAATGGTGAG
GTCTTCCAATTTCAAAGTGATGTGTCTTCAACTTGTATCATCATTTCAGCGGAAAAACAT
AATTTAATTTTG

Sequence=8435;DNA;Homo sapiens

GGCGTCGCGACCCCCGAGGACCTCCTCTACTCGCTCTGTGGCATACACTAGTCCTGGGCA
CTCAACCGCGGAGAGCCCCCGACCCCGGGGTAGCGGCTGAGCCTCAGCCGGGACCGGGAC
CGGAGCCCGCGCGGAGCATGGATCCGGGCTGGGGGCAGCGGGACGTGGGCTGGGTGGCCC
TCCTGATCCTCTTC

Sequence=8436;DNA;Homo sapiens

CTCAGCGAATTTGTGTGTTTGTGTTTGTTTGGGGTTTTTGTTTTTATTTCTTACATTAGA
GTTCATATTTTCTGGGATTTAAATTATAGGTGTATTTTCCTATTCTCTTGAGAAGTAGAC

TABLE 2

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TAAACAGTCTTTGCAATGATGACGGATGCACACAGAAGAAAACATTAGAAGACATTACTT
TCTATCCTCTCATGTGGTTGAGCATTCTTACAGCCAAATGACTAAATTGGGTTTTTAGGA
GGAGCAGCTGTCACTACATGTGA

Sequence=8437;DNA;Homo sapiens

CCACGCGTCCGAGCTCGCTCAGCACTCCCAGGTCCTTAGCACTCCCAGGTCGTAGCTGGC
GCAGTCAGTAGGAACTGTAACTATGTCTCTGATGCACCACGTGTTTAGACACAGCACAGT
CCTTTTTTCTGTTCCTACGGTGGAAGTAGTTTCTCTTTGGGCATGCTGACAGCACTTTTT
CATAGCCTCACCGATGAGCCCTTTCTGCGGGAGTGACTCCATGCCTGTATACAGAGTATT
TATACAGATGTTTTAGCATCTTCATATGCGGTGTTAACCCCTAGTTCTGTACAGCATATT
CTGTTCAAGTATTTTTTTACAAGCTTGTGCTGTAGGCACATGCCTTCTGCTGCAGAAGTG
GACACCCGTGGCACACCCACCCCGCCCCAGTGGGGTGCCATGCCTTCCTGGGACATTGCC
ACTTCTGCCCTGGAACTCATGCAGGTACGTAGTAGCTGCTATTGCCAGAACAGCAAAGCC
AAGCAAGAGATGGTCCATGCTTTTCTGACGTTCTCAGAATAGTGGCTAGCCTAAAACCTG
ACAAGCGC

Sequence=8438;DNA;Homo sapiens

ACGCCTATCACATAGTCAAACCCAGTCCCTGGCCACTGACAGGAGCTCTGTCAGCTTTCT
TAATAACGTCCGGCTTAATCATATGATTTCACTTCTACTCTATCACCCTACTAACACTAG
GCCTACTAACCAACACACTAACCTTATATCAATGATGACGTGACATCGTACGAGAAAGCA
CATACCAAGGCCACCACACAATACCCGTCCAAAAAAGCCTTCGGTACGGAATAACACTAT
TTATCATCTCAAAAGTATTCTTTTTTATCGGCTTCTTCTGAGCATTTTACCACTCAAGCC
TCGCCCCAACACCCTGCTTAGGGGGCCATTGACCACCAACAGGCATCACCCCCCTGAACC
CCATAGAAGTACCCCTCCTAAACACCTTTGTTTTACTTGCATCTGGGGTTACAATCACCT
GAGCTTACCACAGCCTCATTAAATAATGACCGAAAACAAACAATCCAAGCCCTGCTCATC
ACAATCCTACTAGGTACCTATTTCACCCTACTACAAGCCTTAGAATACTTTGAAGCAC

Sequence=8439;DNA;Homo sapiens

ACCTTATGTCTTGTCAGATGTCTAGGCCTGGCCGGGCGCGGTGGCTCACACCTGTAATCC
CAGCACTTTGGGAGGCCGAGGCGGGTGGATCACGAGGGCAGGAGTTTGAGACCAGCCTGA
TCAACATGGTGAAACCCCGTCTCTACTAAAAATACAGAAATTAGCCGGGCATCGCGGCAC
ATGCCTGTAATCCCAGCTACTCGGGAGGCCGAGGCAAGAGAATCGCTTGAACCCAGGAGG
TGGAAGTTGCAGTGAGCCAAAATCACGCCACTGCACTCCAGCCTGGGCAGCAGAGTGAGA
CTCCGTCTGAAAAACAAAACAAAACAAAAAAGCTAAACCAGATGTCTAGGCCAATGATAA
TTATTTTTGATGCAGTGTGGATTAGTTCTTTTGTTAACCCCACTGTCTTGGGGAATGATG
CCTGCTGGGAAAATGAGTTTTTGACTGAAACATGGAACCTTCACTGCTTTTTTTCTGGTT
TCTATGAAGGGTTGGAACATAGAAAACACAAAAACTCACCTTGAAATTTGAG

Sequence=8440;DNA;Homo sapiens

CTCACGCGTCCGCTGATCTGCTTTGGGACGGCCTTTATATACTTCCTCCTTTCCAGGCCT
TCCACCACCAGTGACCACTATTCGACATCTGGCCCACTCTCAGTCATCCTCCTGCTTATG
CTTGTCTTCTCCTTGAAGGCTTCCCACTGCATGTAGGACAAAGGTCAGATTTTGTAACAG
GCCAGGCCTGGACTTCATAGTCTGGGATCCACTAATTTATGGTCTCAGTCTCATCCCTTG
GAGGATTACCTCTGTCCTTCGCACGCTCTGTGCTCCAGACTTATATTAAAAGCAAACAAA
TAAAACTTGGTTTTCAGAAAATGCCTGACTCTTTATTACCACCTGCTTTTGCACCTGCTC
TGAGGGTACTTTACTGAGCAAGTAGAAAAGGGTGTTCCTTGTTTCTTTTATGCTTCATAG
AATTTTGTTCATTTAGCAATTATAACTCTTATGAAACTGTGTTAAG

Sequence=8441;DNA;Homo sapiens

AGCTCTCTCCATAACAATTCTCCTACAAATCACCTTAATTCTGACATTCATGGCCACAGA
ACTAATTATATTCTACATTCTATTTGAAACCACCCTTATCCCCACCCTAATTATCATTAC
TAAATGAGGCAGCCAAGCAAAACGCCTTAACGCAAGAACTTACTTTCTATTCTACACACT
AACCGGCTCTCTACCCCTACTCATCATACTAAGCCACACCTACAACAACACAGGCTCACT
AAACATCACACTACTAACACTCACAGACCAAAAACTAACAACCACCTGGTCCCACAGCTT
TACCTGGCTAGCATGCATAATAAACCTTTATGACAAAAATACCCCTTTATGGCTTACACC
TATGACTCCCCAAAGCCCATGTTGAAGCCCCCATTGCAGGGTCAATAATCCTTGCCGCAG
TACTCCTAAAACTAGGCGGCTATTGCATAAAACGGATTACTCCCATTCTTAACCCCCTTA
ACGGAAATACATAGCCTAACCATTCCTCATATTATCCTTATGGGGCATAAATATAACAAA
GCCTAACATGCCT

Sequence=8442;DNA;Homo sapiens

TABLE 2
1336/3461

ATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTGCTACTTTTAAACAATTTCAACTGC
AGCTCTCTTTCACTAAGTAAGATGGGTAAAGCATGCCATTTCTGTTTGCTTGAGATTTTT
ACTTTTTAGAAACACACATGCTTTCACTGCCATCTGACACTTCTCCACACGCTTTCATCT
TGTAAACCTGAATTCTATTTCGAGTACCTATCAAATACTTTCTGGAGGTGGGGCACGCTC
CGCTCGGTCATGATGCTGATCCACTTGGGAACATCAGTTCCTTTCCTCTTCACTCCAGCG
TCATAGAGATCCCGAGCATCTTGGTCAATCAGTTCATAATCAATGACAGAGCCATCCTCT
GCTCTTCTACCCTTTGCCAGGGCAACCATCAGCTTGCGGAAGTCACCAGATGTGTCCGAA
ATAAT

Sequence=8443;DNA;Homo sapiens
AGCTTTTGTTCCCTTTAGTGAGGGGTAATTGCGCGCCTTGGCGAATCATGGGCATAGGTG
TTTCCTGGGTGAAATTGTTATCCGGGGGGGGGGCCACACAACATGCGAGCCGGAAGCATAA
AGTGTAAAGCCTGGGGGGCCTAAGGAGGGAGCTAACTCACATTAATTGCAGTGGCGCTCA
CTGGCCGCTTTCCAG

Sequence=8444;DNA;Homo sapiens
AGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGTTGTGTCCCTTTCTCTTCAAAGA
TCCTGAGCAAAACAGAGATACGCTTTCCATTACCTCATGGGGGGGCCCTGGACCGCAGTG
CTTGCATTGCTATGGTCGCCTATCATCTCGCTCCATGAGGCTGTGGAGCTAGCTGATTCC
TGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTG
TAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCC
CGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGG
GAGAGGCGGATTGCGTATTGGGCGCTCTTCCGCTTTCTCGCTCACTGACTCGCTGCGCTC
GGTCGTTTGGCTGCGGCGAGCGGTATTAGCTTACTCAAAGGC

Sequence=8445;DNA;Homo sapiens
GCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGC
AGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGC
TTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTTATAGGGTGTT
TCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAA
GTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT
GCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGC
GGGGAGAGGCGGCTTGCGTATTGGGCGCTCTTCCGCTTCCTCGGTCACTGACTCGCTGCG
CTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGGTATT
CACAGAATCAGGGGA

Sequence=8446;DNA;Homo sapiens
TTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCCCCGG
GCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTAC
CCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCCATAG
CTGGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAG
CATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCG
CTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCA
ACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTTCTCGCTTCACTGACT
CGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATAC
GGGTTTCCACAGAATCAGGGGATAACGCAGGAAAGAACA

Sequence=8447;DNA;Homo sapiens
GAGCTCCACCGCGGTGGCGGCCGAGGTACCTAACCTACCTTAAGACTGGGATAACTATTG
GAAACAATAGCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCT
TCACAGCTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCT
ACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCTGTACCTGCCCGGGCGGCCGCTCTAG
AACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCT
CGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGG
CGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACA
ACATACGAGCCGGGAGCA

Sequence=8448;DNA;Homo sapiens
CTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCTGCCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTTTTTTGGGATGGAGTCTTGCTCTGTTGCCCAGGCTGGAGTGCAGGGGCGC
AATCTTGGCTCACTGCAACCTTTTCCTTCCAGGTTCACGCCATTCTCCTGCCTCAGCCTC

TABLE 2

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CCAAGTAGTTGGGACTACAGGTGCCAGCCACCACGCCTGGCTAATTTTTTGTATTTTTAG
TAGAGACGGGATTTCACTGTGTTAGCCAGGATGGTCTCAAACTCCAGACCTCGTGATCCG
CCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCGCCCGGCCAAAA
AACAACTTTTTAAAAATGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAG
GAATTTGATATCAAGCTTATCGATACCGTCGACCTTGAGGGGGGGCCCGGTACCCAGCTT
TTGTTCCCTTT

Sequence=8449;DNA;Homo sapiens
GGTGGCGGTACCTTGTCTGGAGAATGCAGTGACAGCACCGGCCCAGCTTGAGAACCCAGC
GGCTGTGCAGAGGGCAGCCGACCACTATAGCCAGCAGATGGCCCAGCAACTGAGGCTCCC
CACAGACACGCTCCAGGAGCTGCTGGACGTGCATGCAGCCTGTGAGAGGGAAGCCATTGC
AGTCTTCATGGAGCACTCCTTCAAGGATGAAAACCATGAATTCCAGAAGAAGCTTGTGGA
CACCATAGAGAAAAAGAAGGGAGACTTTGTGCTGCAGAATGAAGAGGCATCTGCCAAATA
TTGCCAGGCTGAGCTTAAGCGGCTTTCAGAGCACCTGACAGAAAGCATTTTGAGAGGAAT
TTTCTCTGTTTCCTGGAGGACACAATCTCTACTTAGAAGAAAAG

Sequence=8450;DNA;Homo sapiens
GCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGCCAGGTACCCTTGGAAGATGGGAA
AGGTGAGGGAAATATTAGAAGCAGGGTCAGAACATCCACTAAGAACATAGCACCTCAGTA
GAGCTTACATTATAGAGCCAGGGTAGAGTTATTACTGAATAGCTTAGGATGATGAACATT
AACCTTCCTACAGGAGTAGTAGCAGCTGATTTGGCGACCATTATTGGTCACCTTTTAGTG
TCACTGCAAACTAAGAACAATTATGGCTTGACATATACTCCATGTATGGAAGTGATGGGA
GAGGCAAAACTCTGTGTGGTCCATCCTTGGATGCACTGCGTCGATTTTGCTCCCCTCTGG
TTTTAAGGAGATCTTACAGACCTTTACTTGCTAACT

Sequence=8451;DNA;Homo sapiens
ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTTTTGCAACTCGAGACGTTAGTTTACTCCAGAGTCATGGAGACAGTGAATGGAGTGTGT
GTGTGTGTGTGCGTGTGCGTGAGTGAGAGAGAGAGAGAGGAAGAAGGGAGGGAGGGATGG
TTACAGGAGTGTGGGAAAGTCAACAGGAAAAGGAGGGAAGGTTCGCTGTGAACTGACAGT
AACTGTGACATCACAGGCATGTGCGGAGTCCCCGCCCCCCCCAGGCACTGTGCCAAGGCCA
GTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAAGAATTCGATA
TTAAGCTTATCGATTCCGACGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTTTCTT
TAGTGAGGGTTAATTGCG

Sequence=8452;DNA;Homo sapiens
GAATTGGATCTCCACCGCGGTGGCGGCCGAGGTACCTTTTAAATCTAGCCCAGTATAAAC
ATTAGCCTGCTTAATATTTAGACATTTATAGGTAGAATTCTGAGCACTCAACTCATGTTT
GGCATTTTAAAGTAAAAACAAGTGTGACTTCGAGGACCAAAGAAATTGTCAGCTATACAT
TTATCTTTATGAACTCATTTATATTCCTTTTTAATGACTCGTTGTTCTAACATTTCCTAG
AAGTGTTCTTATAAAGGTCTAATGTATCCACAGGCTGTTGTCTTATTAGTAAATGCAAAG
TAATGACTTTGTCTGTTTTACTCTAGTCTTTAGTACTGGTTGTCAGGATTCAGCCGAATG
GCTTGCCTCAGAGGGTCAATGGCGTTCTGAGATGGTGGCCAGTTGTCCAGACGGTAGCTT
GCTATTGCCAGTCCAGAGGTGAATTCTGGGTTCTTTGGCTTCTTTTCCAGAGCCTTCTCA
AAGCACACCTTCGCTCTTTCATTTTGGTTTCCTCCACAC

Sequence=8453;DNA;Homo sapiens
CGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGGTGAAAGTTCTTGATGAGGGTC
TCAATGGCCCTCTCCACATCACTGAATTCCTGAGCATCCTCTGCGTTGGCTGACCGACAC
TGTCCCATGGTGCCCACTGTGTCTGGTCCTTTGGTGAGAGTTCTGTTGTCCTATAGCTGG
CCCCAGAGGAGCTGATGGCTCATGATCTGTTGGCAGCCGCTGAGACAAGACAGGAGGCCC
CGCGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCG
ATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCC
CTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGA
AATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAAGCC
TGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGGGCTCACTGGCCGCTTTT
CAGTCGGGAAA

Sequence=8454;DNA;Homo sapiens
ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCGGTGCGCATA
AGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCCGAACAGTTGCTAAT

TABLE 2

1338/3461

TGCACTGCAGCCATGAGTGAGAACAATTAGAATCCCTTGGAGGGCAGCCTACGGCAACTA
AAATGCCATTTCACCTGGAACTTGATGGAGGGAGAAAACTCCTTGTATGATTTTGAAGAC
AAAGTATTTTACCGGACTGAGCTTCAAAATCGTGAATTCAAAGCCACAATGTGCAACCTA
CTGGCCTATCTAAAGCACCTTAGAGGGCAAAACGAGGCAGCCCTGGAATGCTTACGTAAA
GCTGAAGAGTTAATCCAGTAAGAGCTTGCTGACCAGGCAGAAATCATAAGTCTGGTCACC
TGTGGAAACTATGCCTGGGTCTACTATCACATGGGCCGACTCTC

Sequence=8455;DNA;Homo sapiens

CGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCAGAAGTCATATGTTATTTACAA
TTGGGTTTGTGTGGGATGGGAAGTAGGGCGGATGAGCCAGTACTTTTGCAATGAAGATGC
AATAGTCATTGTCCTGTCCCACTGTCTCCTGTTTCCTCACCCCATGGCAGCTTACATGAC
CCATTCCCAAAGGGTCCACCGAGTCCTGAACTCAGATTGATCACCAACATTTCTTGCCTT
CAGCAGAATTCAACACTAGTAAAGGGAGTAGAGGCACAGACTAGGGTCAGGGAGAGGGTG
GTAAACACACAGCACACTTTCTTGGCACAACCCAAGTTCAGAGACAAGGCCTCCTCAGAT
GAGGAAGATGATACCCTTAGACACCACGACCTGATTGTCCTCTTGCATGGAAGCAAAAGC
AGCCTGGATCTCAACTGAAGAGAAGGGCTCTTTGCTGTCCCGGTTGATGGA

Sequence=8456;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGGGGAATGGA
ATGGAATGGAATGCAATGGAATGGAATCTTCCGGAATGGAATGGAATGGAATGGAACGGA
ATGGAACGGAATGGAACGGAATGGAATGGAATGGAATGGAATGCAATGGAATGGAATCTT
CCGGAATGGAATGGAATGGAATGGAATCAACCCGAGTGCAATGGAATGGAGTGGAATGGA
ATGGAATGGAATGGAACAACCCGAATGGAATCGAATGTAATGGAGTTGAATAGAATCAAT
CCGAATGTAATGGAATGGAATGGAACGGAATGGAATTGAATGGAATGGAATGGAATGCAA
TGGAATGGAATCAACCCGAGTGCAATGGAATGGAGAGGAATGGAATGGAATGGAAGGGAG
ACTACCCGAATGGAATGGAATGTAATGGAGTGTAAGGGAATTGAATAGAATCAATCCGAA
TGTAATGGAATGGAATGGAATGGAATGCAATGGAATGGAATCTTTCCGAATGGAATGGAA
TGGAATGGAATTAACCCGAGTGCAATGGATTGGAGT

Sequence=8457;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGAACTGAAAAT
CCACAAGACAGAATAGCCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCTGCAGAACGG
CTGCCTAATTTACAGCACCCATGAGGAAAGGCCACTTAAGGATGCAGCAAGAAGGAGCCA
TCTGCAATCCAGGAAGAAATTCCTTGCCAGGAACCAAATTGGTTGACACCTTCATCTAGG
ACTTCTAGCCTCGAGAACTTACAAATGGTGATGATCATCAGGTCAAGGATAGTCTGGAGC
AATTGAAATGTCACTTTACATGGGAGTTATCCATTGATGACGATGAAATGCCTGATTTAG
AAAACAGAGTCTTGGATCAGATTGAATTCCTAGACACCAAATT

Sequence=8458;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGAACTGA
AAATCCACAAGACAGAATAGCCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCTGCAGA
ACGGCTGCCTAATTTACAGCAACCATGAGGAAAGGCCACTTAAGGATGCAGCAAGAAGGA
GCCATCTGCAATCCAGGAAGAAATTCCTTGCCAGGAACCAAATTGGTTGTCACCTTCATC
TAGGACTTCTAGCCTCGAGAACTTACAAATGGTGATGATCATCAGGTCAAGGATAGTCTG
GAGCAATTGAGATGTCACTTTACATGGGAGTTATCCATTGATGACGATGAAATGCCTGAT
TTAGAAAACAGAGTCTTGGATCAGATTGAATTCCTAGACACCAAATACAGTGTGGGAATA
CACAACCTACTAGCCTATGTGAAACACCTGAAA

Sequence=8459;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTATCATTAA
TGTATTATATACACTGATACTTTAAAACTTGTGTGGAAAAAACTAACTTATAATTTTGTA
TCACACACCCTGGATATGTGTTCTGTTTCTAAGCGACATTTGTGAGAGATTATTGTAAAA
TGAGAGCGAGCAAATAAAACTTAATTTAATCTTTGCAGATACATACTTATGGGAAATTTG
AACAAATGAGTGAAACTCTGTGTTTTTAGTAGGCTGTGATAAACATTTTCGGAGCAC

Sequence=8460;DNA;Homo sapiens

GAGCTCCACCGCGGTGGCGGCCGGGCCGCGAGGTGGTTACATTCGTCGAAGGACACCAGC
TGCGGAATTTGCGGCTTTGGCAGATTGAAATCATGGCAGGTCCAGAAAGTGATGCGCAAT
ACCAGTTCACTGGTATTAAAAAATATTTCAACTCTTATACTCTCACAGGTAGAATGAACT
GTGTACAGAATCCATTCTCATTCTTTACTTGCTACATTATGACCATGAGGAGGGCAGAGT
AGAGGTGAACTCTCTGTATACTTGCTGAAAGTCTTCTTGTACCTCGGCCGCTCTAGAACT

TABLE 2

1339/3461

AGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAG
GGGGGGCCCGGAACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTA
ATCATGGGCATAGCTGATTCCTGTGTGAAATTGGTATCCGCTCACAATTCCACACAACAT
ACGAGCCGGGAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATT
AATTGCGTTGCGCTCACT

Sequence=8461;DNA;Homo sapiens
TTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCAGTAGAGATGGGGTTTC
ACTATGTTGGTCACTATGGTCTTGATCTCTTGATCTCGTGATCTACCCACCTTGGGTTCC
CAAAATGTTGGGATTACAGGTGTGAGCCACTGCACCAGGCAAACTGCGATCTTTTAGTGG
TGCCTCTTCTCTCTTTTGACTTAAGGATGTTGTCCCTTAAGGAAACCTGGAGGCTACTAC
TGTGATACACTACTTGAGAGATGGATTGTTGCTCTTTCTTCTACAGTCTTTAC

Sequence=8462;DNA;Homo sapiens
ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAAGAGATAGAA
AGACCAGTCCTTGCTGAAAGACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTGCATT
CTTCAGTAAGTCAACTTCAATGTCGGATGGATGAAACCCAGACACATAGCAATTCAGGAA
ATTTGACTTTCCATTCTCTGCTGGATGACGTGAGTAAACCTGAATCTTTGGAGTACAGGA
CAATAAAGACTACTTCTATCTGCGGAACAACTAGCTTTCTATTTAGTTCTAGATGTTGAA
ACTGACGATGGCTGACATAAAAGTCACATTTACAAAAAGTGTCTTCAAATGCTTGACTAG
GGAAAAACCCCTTTCAATAGAGGAGCATGTGCAACAATTCCACAAATAATCGCTATTCAG
GGCAAGGCACATTGATATGGAAATTTT

Sequence=8463;DNA;Homo sapiens
AATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCCAAGACTCAGCACTAGTCTGATGA
CCTGCTAATTCACTGACAGCATAGGGCTGTCTGTTGTTTTTGCGCAAGTTGGTGTGAACA
AAGTTCACAATATCTGGTCGAATAGGAGCCTTGAATACAGCAGGCAAAGTGACATTTTTG
CCAGATGACTCCCCCTTTTCGGAGTACCTTGTTCAAAAAACACCGCTGAGTCACTTCCAG
GTGCTGTTAAGTTTTCTTTAGTGAAGATGTCTATACCAGAGGGAGCATAGTTCCAGATGA
TTTCCTCAGCGGCAATGTAGTAGTGTCTAACATGCTTCCCACGGATATTATCCTTTGATG
AAGACTTGTTACACTCCTGGACCTGGAAAAAGGCTTGCAAACCGGCTTTCAGATGGTTTA
GATTCTGACA

Sequence=8464;DNA;Homo sapiens
TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCTGAATGTAG
AAACAATGAGGATGGACCTGGTTTAATAATGGAAGAACAGCACAAGTGTTCTTCGAAGAG
CCTTGAACATAAAACACAGACACCTCCTGTGGAGGAGAATGTAACTCAGAAAAT

Sequence=8465;DNA;Homo sapiens
GACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGACGTACGCGGGGCCAGA
AGAGGAAGATTTCTGAAGAGTGCGGCTGTCTGAACCGAGCCCTGCCGAACAGGTGAGAAT
TGCACTGCAACCATGAGTGAGAACATTAAGAGTTCCTTGGAGAGCACGCTACGGCAACTA
AAATGCCATTTTACCTGGAACTTGATGGAGGGAGAAAACTCCTTGGATGATTTTGAAGAC
AAAGTATTTTACCGGACTGAGTTTTAAAAATCGTGAATTGAGAGCCACAGTGTGCGACCT
ACTGGGCTATCTAAAGCACCTAAAAGGGCAAAACGGGGGAACCCTGGATTGCTTACGTAA
AGCT

Sequence=8466;DNA;Homo sapiens
ACTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGCCAGGTACCATATG
AAGTGTGAAGACAAGGCCATACACCACTTTATAGAGGGTGTGAAACTCAACCACAGGTCC
AGGGAGAAAGAAACGATGAAAGACATACTGCTAAAAATTGCCACAATGCGACTTTCTAAA
AATGGAGCAGATCCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAA
ATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAATCCTCATCCCTTCA
TCATCAAGCTGGAATGGCGAATGAACAATACAGATGTGGGGCCCACTAGGCTACTGCTGA
AAGGGAGCTGAAATTCCTTCACCTAGTTGGTATTGAAAATATGTCATGACTGGGATGGTG
AAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGTTATGTTAACACCC

Sequence=8467;DNA;Homo sapiens
GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTT
TTTTTTTGTTTTATCATATTTAGGTTATTTATTAATGAAGGGATTTGACATTTTCAGGAA
TACAAATTTTGCACCCTGATGACCTCAAATGCGTGCAACAAGATGTTTAATACAGAAAAT
AACACAAAAACTGTTGTTACAGTGGTTAGAATTTTTAACTTTAAAAAACCATGAATTTGT

TABLE 2

1340/3461

ATTGTTTTAATTGCACAATAAAATAATGTTGATATATACTTAAGCTTAAATTAATTCCAA
CAGGCAAACATTTTCCAACCCAGAGTGTGGCTGATGTTGGGTCAGCTGACTCTATTTTGG
TTCACACCAACTTTGATGTCTAGGCTATTTCAACATCTACCTAGAAAATTTTAATCGTTC
CAAGCATTCCGTGAATTTTGTGATTTCTCAGAAGATTTTCTGAGTTAAAAGAAGTGTTTA
TATCACTTAATATCCAACATTTTTAAAGGGGGGAAAACCCC

Sequence=8468;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTATCAGCTAATTGGGCTCCTTTGAAA
TGCTGAGGATCTGCTTACGCAGGTTAACTCTTTGAGGAAGGGGGTTGGGTAAGTAGCCCT
TAATGTCTTGTAAATCAAGGGGCCAGATGGCGTTCGTCAGGCTTTCCCAGCTAAGGGAGA
GTCTACTCATATGGGAAACAAGCCTAGGTAATTAAGGAGACAAAAAGGGAAAATTTAAAA
ATAGGGTTAGTAAAAACAAGGTTAAAATAGGGTTAGTAAAAAAACAAGGTCAGGCATTAC
AAAAGGATTCTCCTGTCTCAGCCTCCACTGGGATTACAGGCTCGCACCACCAAGCCCAGT
TAACTTTTGTATTTTTAGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGG
GCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGG

Sequence=8469;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT
TTGTGAGCAAGCACGTGCACTTTATTGAATGACACTGTAAACAGGTGTGTGGGTATAAAC
TGCTGTATCTAGGGGCAGGACCAAGGGGGCAGGGGCAACAGCCCCAGCGTGCAGGGCCAG
CATTGCACAGTGGAGTGCAAAGGTTGCAGGCTATGGGCGGTTACTAGTAACCCCGTTTTT
CCTGTATTATCGGCAACATAATATGGAAGACTGTAACAGAGCCGAATACCAGTTACAGGA
TGAATCCAATGGTCATGAGGATGCCCAGAATCAGGGCCCAGATGTTCAGGCACTTGGCGG
AGGAGGCATAGGCCTGGGCCCCGGTCACGAACCCAACCATCTTCCTGTCCCTAGACTTCA
CGGAGTA

Sequence=8470;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTCTTACCCTTGTCCCTCTCCT
AAAGGGAGCACAAGGAAACTGAAGAGACTGAAAAAGAAGAGAGTTTGTAGCTGCAAAAGA
ATAGGGATAGCAAGGAAACCCAGAACTGCATTCCCCTAAGTGGGGCCATCCCATGTGATT
GAATTGTCCATAGCTTGCCTATGGTGAGAAATGTGCATGCTCCGTGAGCTGGTCTCTTGA
AACAGGACTTATGCTTCCTCTATATTCTGGTTAAATTTTCCAAACACATAAGTTCACTGA
GCACAGATTTCTTATCCAGAGACAAGTAGAATCTAACCGCAGACTGTTGGCAGAGTTTCC
AGGCACTTAGCCATGTTCCCTTCCTGACTCAAATCCCCAAAGGCCTTCACTCTCACTGAG
AATCACACTACTGTCCCATAGATAAGGCAGGCATTGAAGCACCTGTCGTGATCCTCTAGG
GGGGAGAATGAAAGGTTATTTCCTGCATTGCATCATCATAGCTTTTAATATAATGCTACA
GAATCATATCCACATTAGGTTAGAGTTCAGATATTTGG

Sequence=8471;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGCCGGGCTCTACAGAATAGAGGCAA
TACTTTAGCTTAAGCCTGTCTGCTGACCAGAGAATGGAATTATGCGTGGACTCAAGGAAC
AAAAGGAAACTAGGCAGGGAAGGGGAAGAAAAGTGCCCATCTGAATCAAACTGTAGCTGC
CATTAAGGCACATCTTGTGGGGGTCACAGATTGTAGGCTGTTTTTTGGAAGATACCGGTT
CAGCACAGGATGTCCATTTGGCTACTTGGCTACACCCCTGGCTGAGGTGCCATGAGGACA
ATGTCACTCAAGTTCCTGGCCAGCCAAACTCCCGGAGCAAAGAGCCCCAA

Sequence=8472;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGAGGGGCTTGTTTTTTTTTTTTTTTTTTTTTTTTA
TAACTGATAATTCTTTATTACTAAAGGTTTATTTACATAGTGTTTAAAGCGTAATAAAAA
ATAAATTACAATACAAAAGTGCTCTTTAGGAAGGAGACACTAAACAACAGGCCCATATTA
CCCCTTGACTATTTAGCCAAGACATAAGCTACAAATTTTGCCGGAAAAACTGTCCATACA
TTTTTAACTACTTCTTCATTATTCTTATGGACCATCATCCAGGACATCTGTTTGAAGAAA
TATCCAGTTATAATATTTTCAAAGGTTAGAATTGTGAAGAAAAAATATAAAATGTGATTA
AAGGATATATAGCCTTCAGATGTAATT

Sequence=8473;DNA;Homo sapiens

AGGCCGAATTGGAGCTNCACCGCGGTGGCGGCCGAGGCACTAGATGACTTTTCTTTTTTT
TTTTTTTTTTTTCCTGTTATACAAAGAGCAGATTTTTATTGAACTTGTGCGTTAACTATA
TTACCATACAATTTAAATATTCATGAATAGTTTCCCAAGTCTGGAGCGACCACATAGGGA
GAAAATGTAAATGTCTCAATTTTTTGTCCACCAAAAGTTT

Sequence=8474;DNA;Homo sapiens

TABLE 2
1341/3461

GCTCCACCGCGGTGGCGGCCGAGGTACAAAGGAATAAAAATGTTACAACCTAAAAAAACA
AAACACCGTAAAACATTTAGAGTAAAACATGACAAACGTGCTGCTTTTAGAGGAAAAGAA
GTTTCATTTGAAGAATTTGGACTTCAAGCTACAACATCTCAATGAATAAGTGCAAGACAA
ATTGAATCAGCAAGGATTGCGATTACAAGAAGAATGGGTCGTGAAGGACAAGTTAACATA
AGAATCTTCCCTCATCTATCTCTTACTAAAAAGCCTATTGGAGTTAGAATGGGATCTGGT
AAAGGTTCAGCTGAAAAATGAGTAGCTGTTGTTAAAGAAAATACAGTTATGTTTGAAGTT
GGTGGAGTTAAAGAAGAAATAGCTCGTGATGCACTTCGTTTAGGTGGACACAAACTACCA
GTAAAATGAAGAATAATTAGCAAGGGAGAATAATGGAATTCATAGATTTAAAGAAAAAAA
CTACTGA

Sequence=8475;DNA;Homo sapiens
GGAGCTCCACCGCGGNGGCGGCCGAGGTACATTTGCCTGTCTTCCTACTGTCCTTCCTTT
TTATTATAAGATACATATATAGACCCCATAGAAGAAAATATAAATTTCATAGGCTGTTAA
AAGAGGCTAGGCCTAAGTTATAATGCCTGCTCTCTCACAGCCCCATTTCCCCAAGGGGCA
TTATCACCAGAGCCATTTTTTCTAGCTGTAAACAATGCCACCAGCTTGAGTGATAGTGTC
CCTGTAGGGTGCTCTCACTTCTCAAGGACCAAATACACCTTAGCAGAGGCCAAGGTTTTA
TGACCAAGTGAATGGGGGCGAACATAAAATGCACAGGT

Sequence=8476;DNA;Homo sapiens
TGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT
GACTTTATATATAATACTTTATTTTATACAATTCAGTATATCATGTTAACATATTTCACT
TTTAATTTTATGATATGTGTGACATATTTTTAATTTTATGGATTCAATTATACTATCATA
ATTTTTTTAAAGTTTGTATCTTTCATTAATAAGGAGGTTCCTTATTAATGGATTTTTTTT
CCTGTAGCTTCTGAGAACACATTTTTAGATACCCGGCTTCTAGTTATACCTGAAGCTCCA
CAGTGTAGACATGTTTTGGCCAACCTTGTTTTATCGGTGTATGAAATTTGTGCTAATAGG
ATGGATCCAATTGTCATTACATTAGAAAACTAAATGGGAAACATTTCTTCTACATTCTGT
GCAACATAACAAAATTATTCATAGAGATTATTCAACTAAATAAAGTGATT

Sequence=8477;DNA;Homo sapiens
CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTTTTGACTTTATATATAATACTTTATTTTATACAATTCAGTATATCATGTT
AACATATTTCACTTTTAATTTTATGATATGTGTGACATATTTTTAATTTTATGGATTCAA
TTATACTATCATAATTTTTTTTAAAGTTTGTATCTTTCATTAATAAGGAGGTTCCTTATTA
ATGGATTTTTTTTTCCTGTAGCTTCTGAGAACACATTTTTAGATACCCGGCTTCTAGTTAT
ACCTGAAGCTCCACAGTGTAGACATGTTTTGGCCAACCTTGTTTTATCGGTGTATGAAAT
TTGTGCTAATAGGATGGAT

Sequence=8478;DNA;Homo sapiens
GTAACACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAG
GTACACGGGCAAAGGGGCTTGAGAAGGCCCGGAGGCGAAGCCGAAGAGAAGCAACTGTGC
CCCGGAGAAGAGAAGCTCGCCCATTCCAGACTGGGAACCAGCTTTCAGTGAAGATGGCAG
GGCCAGAACTGTTGCTCGACTCCAACATCCGCCTCTGGGTGGTCTTACCCATCGTTATCA
TCACTTTCTTCGTAGGCATGATCCGCCACTACGTGTCCATCCTGCTGCAGAGCGACAAGA
AGCTCACCCAGGAACAAGTATCTGACAGTCAAGTCCTAATTCGAAGCAGAGTCCTCAGGG
AAAATGGAAAATACATTCCCAAACAGTCTTTCTTGACACGAAAATATTATTTCAACAACC
CAGAGGATGGATTTTTCAAAAAAACTAAACGGAAGGTAGTGCCACCTTCTCCTATGACTG
ATCCTACTATGTTGACAGACATGATGAAAGGGAATGTAACAAATGTCCTCCCTATGATTC
TTATTGGTGGATGGATCAACATGACATTCTCAGGCTTTGTCACAACCAAGGTCCCATTTC
CACTGACCCTCCGTTTTAAGCCTATGTTACAGCAAGGAATCGAGCTACTCACATTAGATG
CATCCTGGGTGAGTTCTGCATCCTGGTACACCACAATGGCTGAGCACTTCCTGACGTTGC

Sequence=8479;DNA;Homo sapiens
CGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTC
GGGGGAATGCAACACACTCAAAGCCTGTTAGTACACTACATCAAACACGTTCAAGACTCC
CCAATTGAACGGATTGGATTCAAAGATATACCCACCACTTTTAGCAAATGGTGAAGTGCT
AAATCACACAATTAATCAAATGGCTGAGTTAGCTAAAGACGCATACGTTATTATAGGTCC
ATACGCAAGACGTTTCTTGCTTGGGACACCTACTGCTGCTTTTTTAAAAAAACCTTTTAT
TATGGTAAGAAAACCTAAAAAATTACCAGGACACCTTATTAGTTCCGAGTACCAATTATA
ATATGGCTAATCAACTGTAGAAATGCACACTAATATGTTGAAAAAAGGCCAAAAAGTACC
AATTATTGATGATGTTCTAGCTACTGGCGGCACAATGTACGCGACTATTAACTTAATCGA

TABLE 2
1342/3461

ATCTC
Sequence=8480;DNA;Homo sapiens
GTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGC
CTCTCGGCCCGGCTAAACATCATCGTCTTGGGGGGCCATTACCCTACCAACTAACTAATG
TTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCATCATGCGAT
AAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTTAAAGGTAGG
TTAGGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTC
GATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTC
CCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTG
AAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAAGC
CTGGGGTGCCTAATGAGTGAGCTAAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTT
TCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAG
GCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCG
TTCGGCTGCGGCGAGCGGTATCAGCTCAC
Sequence=8481;DNA;Homo sapiens
CGTAACACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAC
TTCTAGCACCTAGCAGAGAGAGGCTTCACTACATCATGCTTCCTGACATCTCTCCCTTTG
AAGAGCAGTCAGACTCCTGCTTTGCTCTTCAGACTTAATTTGGGGGTTTAACAGGTGAGG
TTGCTGGGGGAACTCTTTTACAACATCTCTCTGAAAGAATCCGGGCTGCCAGTTTCATTT
GGTTTGGGTGTCAGTAGCATGATGGAAAGACAAAAAAACACAACTTGACATCTGCAGAAA
TGGGTTCAAATTTTACCTGCAACTCACCAATTCTGTGGCCTTGGTTCAGCAATTAAACTC
CCTAAAATTCAGTTTTTTCTTTGTAAAATGGGGTTATGAACAGTACCAAATGAAGTGTGA
AGACAAGGCCATCCACCACTTTATAGAGGGTGTAAAAATAAACCAGAAATCAAGGGAGAA
AGAAAAGATGAAAGACAAACTGCAAAAAATTGCCAAAATGCGACTTTCTAAAAATGGAGC
AGATTCTGAGGCTTTGCATGTCTTGGCATTCCTTCAGGAGCTGAATGAAAAAATGCAACA
AGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAG
CTGGAATGGGGAATG
Sequence=8482;DNA;Homo sapiens
GAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGCCAGGTACTGTGCACGTCGGTTATAG
GCTGCGTGTCAGGACAGGCTCAGATTATCCACTGCACTGCAATTGGAGCTAGAGGGGGAA
ATGGTGGGGCCATCTGGGCCATAAAGGCATTCAGGGTGACTGGGTCACTGCACAAGGCAC
TCGCTGGGTTCTGTATTTCACATTGATAGGATACTGCATCTTTCCTTTTAACGCTAAGTA
GACTGAGGGTCATGTTGCCATTGTACAATTGTAGTCTGCGACTGACCGGGAGGTTCTAAC
CATTAACCCACCACAAGTAGGTCGTGTACTGAACCTCAAGTTCACATGTGAAGGCCACAG
T
Sequence=8483;DNA;Homo sapiens
ATTGAGCTCCACCGCCGTGGCGGCCGCCCGGGCAGGTACATGTGTGTGTGGGTGAAATGG
AGATTTGGAATTGAACTCTCTGCCTGTAAATGTTCCCCAAATAATTGTTGTGTGTATGAT
ACGTGTATAATAAAAGTATTCTTGTTAGAATCTGAAAAAAAAAAAATAAAAAATAATTTA
AAATAAAGGTTCCTTGGCCGTTTTAAAACTAGTGGATCCCCCGGGCTGCAGGAATTCGAT
ATCAAGCTTATCTATACCGTCGACCTCTAGGGGGGGCCCGGTACCCAACTTTTGTTTCCT
TTAGTGAGGGTTAATTGCTCGCTTGGCGTAAACATGGT
Sequence=8484;DNA;Homo sapiens
GGCGGCCGCCCGGGCAGGTACGCGGGGACACAAGACATCATCTTGAAGGAAGGATGGCTT
TGGCCAGACCAAGACCGAGACTTGGAGACCTGATTGAGATTTCTCGCTTTGGCTATGCAC
ACTGGGCCATCTACGTGGGAGATGGCTATGTGGTCCATCTGGCTCCGGCAAGTCACTGGT
GCAGTCACGACAGTAGGTGTGGCAGCAGGCCTGCTGGCTGCCGCAAGCCTTGTGGGGATC
CTGCTGGCCAGAAGCAAGCGGGAAAGGCAATAAATCCAAGAAATTGTCCCAACAACCACC
AATTCTTACGGAGGAATATTATTTTAGCCAGCAGGAGTGGAGTTTGGTTTACTTGATTTA
CTGGTTTGTGTTCA
Sequence=8485;DNA;Homo sapiens
TTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCATTTGGAGTTTAATTGCTTC
GCTCCGATGAATGAATTCCTGGCCAATGCACCAAAATGATACGGCTCCGATGACTGGAGG
AACACCAGGGTCCTTGGTCTCGCACCAGTTTAGATAAAATGACACAGACACACATGTAAT
GGTTTTAAGGAGTGGAGAGTTTATTAGGCAAGAAGGAAGGAAGAAGAAAACAGCTCCCCC

TABLE 2

1343/3461

ATACAGAGACAGAGGGAGGGGGGATTAGAACAAACAGAAACTTCCCCGCGTACCTCGGCC
GCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCG
TCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCG
CGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTG

Sequence=8486;DNA;Homo sapiens

GAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAGCGTCATATAGGCTTTG
CCTTTAATGATCTCTTACGGTTAGAAAACACAATAAAAACAAACTGTTCGGCTACTGGAC
AGGTTGTATATTACCAGATCATCACTAGCAGATGTCAGTTGGACATTTGAGTCCTTTATG
AAATTCATAAATAAAGAATTGTTCTTTCTTTGTGGTTTTAATAAGAGTTCAAGAATTGTT
CAGAGTCTTGTAAATGTTATTTTAATAATCCCTTTAAATTTTATCTGTTGCTGTTACCTC
TTGAAATATGATTTATTTAGATTGCTAATCCCACTTATTTAGGAAATGCCAAGAGGTATT
TCCTTGGGGAAATGGTGCCTCTTACAGTGTAAATTTTTTCTTCTTTACCTTTGCTAATAT
CATGGGAAGAATTTTTCTTATC

Sequence=8487;DNA;Homo sapiens

GGCGATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCCATCCTACCCGGCCT
GGGCTGACCCATGGGGAAGGCTGGCTAATTTCAGTGCTTCTGCTTGGTTGTTCAGGGCCA
TTTCAGGTTTGGGTGTTTTCTGGGGATGTTAACATGGGATTCAGGCTCAACTCACAAGAA
ACTTTTCCATCTCATGATGGATGCTGTTGGGCATGTCCAATGTATGACTTCATGAGTTAC
ACAGATGCTAATTCGTAGGGGCACTTGGAATCACATGGTTGTTTTGTGTCCCATGGTCAA
GCATTCTATCTTATCAGGGCCTACAGTAACATGCCAAAAGTTGCTTCCAACATATTTCTC
TGCTTTGGATGGGGCATATTTCTGTGCTGTGGATGACATGGCCTTACTCCAGAATCCCAG
GCCCTCCACTG

Sequence=8488;DNA;Homo sapiens

CTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACATCCCCAGTCGTGGCCCTCTGGACAAG
TGGCGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCCTCTTAATACTCATTGT
CAATTTGAGAAAAAGGACATATGAGTTTTTGCATTTATTAATGAAACTTCCTTTGAAAAA
CTGCTTTGAATTATGATCTCTGATTCATTGTCCATTTTACTACCAAATATTAACTAAGGC
CTTATTAATTTTTATATAAATTATATCTTGTCCTAAAAAAAAAAAAAAAA

Sequence=8489;DNA;Homo sapiens

ATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCCACGTAAAGACGTTAGGTC
AAGGTGTAGCCCATGAGGTGGCAAGAAATGGGCTACATTTTCTACCCCAGAAAACTACGA
TAGCCCTTATGAAACTTAAGGGTCGTTGAAAAAAACTATTCACAAATATAAAAAAAATAA
AGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGC
TTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGA
GGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTAT
CCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAAGCCTGGGGTGCC
TAATGAGTGAGCTAACTCACATTAATTGCGTTGCG

Sequence=8490;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGTCCGGTCAGGTACGCGGGGCACAGCG
GCTTCCTTGATCCTTGCCACCCGCGACTGAACACCGACAGCAGCAGCCTCACCATGAAGT
TGCTGATGGTCCTCATGC

Sequence=8491;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGGGACAACAC
AAATTACTGCAACTCCAACAACTATGGCAATAACAATCACAGCAATGACCCAAACATCCA
AACTGTCAAGTATTCCTTCCTCAGGTTTAGGATATCCTGGATAATTTGAGACTGGAGGCT
TGTAAGTAGGCCTAGGACCTGAGGCACTGGACGCTGGAGATTTTGTAGTGGAAGAAGTCG
ACACTTTAAGACACTTTGGAACTGGGGGATCCCAAGTACTTGTGGAAGGTGGACACCATC
ACATCCAGGGCCTTCTCCAGAGGGCACGCCATGACAGCAGTCAGGATCAAACCAAGAAAG
AAGAAG

Sequence=8492;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT
TTTTTTTTTTGCGAGATGGAGACTTGCTCTGTTGCCCAAGCTGGAGTGCAGGGGCGCAAT
CTTGGCTCACTGCAACCTCTTCCTTCCAGGTTCACGCCATTCTCCTGCCTCAGCCTCCCA
AGTAGCTGGGACTACAGGTGCCAGCCACCACGCCTGGCTAATTTTTTGTATTTTTAGTAG
AGACGGGATTTCACTGTGTTAGCCAGGATGGTCTCAAACTCCAGACC

TABLE 2
1344/3461

Sequence=8493;DNA;Homo sapiens
TATACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAGATAG
TCATCTCAGTAAAAGGTCTATTATCTAACTTGCCAAACTTGTTTACTGAGAGCCCTAAGG
AACTAAAACTGCCATAATGCCGTGCACAGCTTGAAAAGCAATTAGAGTAAGCAAGATTAG
TTTTTCCTCCCTTCCAGTTCCTCAGCAGGCCTGGCTGAAGGCCCAGGAGGGAAGGAAATA
TAAGAACCAACAATAAAAATAGCAATAGCAATAAGAAGAATGCCATCCCATGGAGCACAC
CATAATTCTGGAACCACCTCTCCCGGATCAGGCTTCCATTGCTCACGATGCTCACGCTGG
GCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCG
ATACCGTCGACCTTGAGGGGGGGCCCGGTACCC
Sequence=8494;DNA;Homo sapiens
ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGG
GGACGAAGTTCCGGTCCAGGTCTCTGACTTCGGGCTTGTTCGCTGGTGGCGTCGGAGCCG
AGCCGGACTGGTCAGGATGATCACGGACGTGCAGCTCGCCATCTTCGCCAACATGCTGGG
CGTGTCGCTATTCTTGCTTGACGTTCTCTATCACTACGTGGCCGTGAACAATCCCAAGAA
GCAGGAATGAAAGTGGCGCTTTCTCCGCCCCAGGGTTCCAGGACATAGTCTGAGGCAAGA
TGGAGGGTTTGAGGGGGCTTTACACTTCAATTTATGCCTTTCACCCATCAC
Sequence=8495;DNA;Homo sapiens
GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCCTGGGCAACAGCGAGACTCC
GTCTCAAAAAAAAAAAAAAAAAAAGAAACCATTTATTTTAAAAATGATTAGATTGCTATG
CCTCAACTCATAGAAGATGAACCCTTCAAGAAAACGTGAAGTAGAACGGGTGGGCCAGAA
ATGAAAACAGGGCAAGTAAAGTATTTCTTTGGAAAACATTTTATCAAACCAAATGTTAAA
AAGACTTTCCTTTTGTAAAACTGGATTAGAGAAGACTTTTGAATGGGTTATCTTTAGGAT
GATCAGTATTAGAGCACTTAAAAACTGCAGAAAAAACTGAAAGTTATGTTCCAGATAACT
TTCCGTTGTTTACCAAATTTTTTTAGACTTGGTCATCATCAGGAAGCATT
Sequence=8496;DNA;Homo sapiens
ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTCCAGGGCTTCATTCATA
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CTCCGAAGTTTCCTTAAAACCAATTTCTTCAAAGAATTGATACTTTTATCCCTTTGTTAA
TGATGCCTGTTCTATTTTTATAGCTTTTAAATAATGGATAATTGCATTGACGTCAGATTT
CTTTTGAAATTCCTGAAACCGACCATAGTGGAAATGTATGTCTTGCATTGTTTCTTCTAC
CACTGGTTTCATGCATAACAATTTTTGAAAATTCTCTTCAGCTTTTCTGTGATTGCCTGC
TTCTATATACATTCTTGCCAGGTCTAGATGAGCCACCTCAAATGTGGGCTTTTTTTCCAC
TGCAGATTCAAAATGAAATATGGCTGATCTTATCATTTTGTCTAGCTTTTCTCTGTTCTG
CCC
Sequence=8497;DNA;Homo sapiens
GAGCTCCACCGCGGTGGCGGCCGCCCGGCCAGGTACCTGCTGGGAGAAGTTCTGAACAAC
TATATCTGGGATACACAGAAAAGTATGGAAGAAGAGAAAGAAAAGCCTAAATTGGAATGA
GATCCAAGACTAAACGCATGAGCTAGATTGATGCCGCCATTTGAAGAACCTCCTTCCCCT
TGGGCATTGGCAGAGGGGGAGAAAAGGCTTCAAAGGAACTTGGTGGCATCAGCACCCCCC
TCCCTCAATGAGGACACCTTTTATATATAAATATGTATAAAACATAGAATACAGTTGTTT
CCAAAAGAACTCACCCTCACTGTGTGTTAAAGAATTCTTTCCAAAGGCATTACTGATAAT
AACATTTTTTCCTTTTCTAGTTATAAAACCAGGAATTGGACCTTGGATTTTTATTTTGGC
AATTGTAACTCCATCTAATTAAGAAAGAATGAAAGTTTATTGCACTTCTTTTTGAGAAAT
ATGTTAAAGTCAAAGGGGCATATATAGA
Sequence=8498;DNA;Homo sapiens
GAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTCACTGAGCTCAAGACACACTTGG
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GTGAGTGTCCTCTTAAGTAGCGTGGGCTAGCCAATCTGCCGTTCATGGTGTATTGTAAAC
TCCGAAATTCCATATGTAATAGGATGCAAGTCTAAGCGTTTCATGTGGACATAAATGTAT
CTAAATAAAACTTTCCCTAGCACTGTGGCTGACCTCACCCTTACTTTTATACTTTAGTAT
GAAACTGATGAGAACTTTGGTAGTGAGTATTTTTTTTATATATATACATATATATGTATC
TATCTATATATATATCTCAAGCATCTTTCAGGTCTTTGTGTGTGGCTTTTTTAAAGCCCT
GTTGTAAAAAATTA
Sequence=8499;DNA;Homo sapiens
CGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATTTTTAAAGAGTTGTTTTTTGGC

TABLE 2

1345/3461

CGGGCGCAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCGGATCA
CGAGGTCTGGAGTTTGAGACCATTCTGGCTAACACAGTGAAATCCCGTCTTTACTAAAAA
TTACAAAAAATTAGCCAGGCGTGGTGGCTGGCACCAGTAGTCCCAGTTACTTGGGAGGCT
GAGGCAGGAGAATGGCGTGAACCTGGAAGGAAGAGGTTGCAGTGAGCCAAGATTGTGCCC
CTGCACTCCAGCCTGGGCAACAGAGCAAGACTCCATTTTAGAAAAAATACACAATAAGTA
AAGTTCCTGCCCGGGCGGTCGCTCTAGAAATAGGGGATCCCCCCGGGCTGCAGGAATTTT
A

Sequence=8500;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTATCCCAGCCCCCCAGGTTCGC
CTAATAGTCTTGGCTACTTCCCTACAGCTGCTAATCTTAGCGGTGTCCCTCCACAGCCTG
GCACGGTGGTCAGAATGCAGGGCCTGGCCTACAATACTGGAGTTAAGGAAATTCTTAACT
TCTTCCAAGGTTACCAGTATGCAACCGAGGATGGACTTATACACACAAATGACCAGGCCA
GGACTCTACCCAAAGAATGGGTTTGTATTTAAGGGCCCCAGCAGTTAGAACATCCTCAGA
AAAGAAGTGTTTGAAAGATGTATGGTGATCTTGAAACCTCCAGACACAAGAAAACTTCTA
GCAAATTCAGGGGAAGGTTTGTCTACACTCAGGCTGCAGTATTTTCAGCAAACTTGATTG
GACAAACGGGCCTGTGCCTTATCTTTTGGTGGGAGTGAAAAAATTTTGGCCAGTGAAGCC
AAATCGTAACTTACAGCAAGCAGCATGCAGCATACCTGGCTCTTTGCTGATTGCAAATAG
GCATTAAAATGTGAATTTGGAATCAGATGTCTCCATTACTTTCAGTT

Sequence=8501;DNA;Homo sapiens

CTATACGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGACTCGCGTCG
GTTGGCGACTCCCGGACGTAGGTAGTTTGTTGGGCCGGGTTCTGAGGCCTTGCTTCTCTT
TACTTTTCCACTCTAGGCCACGATGCCGCAGTACGCGGGGGGGTGAAGAAGGGGCCGGCC
TTCAAGCAACAGCGACGCAAGATGGCAGCCACCACGGGCTCGGGAGTAAAAGTCCCTCGC
AATTTCCGACTGTTGGAAGAACTCGAAGAAGGCCAGAAAGGAGTAGGAGATGGCACAGTT
AGCTGGGGTCTAGAAGATGACGAAGACATGACACTTACAAGATGGACAGGGATGATAATT
GGGCCTCCAAGAACAATTTATGAAAACCGAATATACAGCCTTAAAATAGAATGTGGACCT
AAATACCCAGAAGCACCCCCCTTTGTAAGATTTGTAACAAAAATTAATATGAATGGAGTA
AATAGTTCTATGGAG

Sequence=8502;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTAAAGTCCTCCT
GGCTCTGAAGCTTCATAAGATGCGTGAAGAAGGTGAAGAGGAAGGTGAAGGAGTCGAGCG
GCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGTTTATCATATTTA
GGTTATTTATTAATGAAAATATATGACATTTTCAGGAATACAAATTTTGCACCCTGTGAC
CTCAAATGCGTGCAACAAGATGTTTAATACAGAAAATAACACAAAAACTGTTGTTACAGG
GGTTAGAATTTTTAACTTTAAAAAACCATGAATTTGTTTGGTTTAAATGGCACAAAAA

Sequence=8503;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCTTACAGTCTTC
AGGAAATTCATTAAATCAGTGCCTCCAGTTCCTTTGGCTTCCAGTTTTGAAGGGTCTTCA
GAGGTCTTATTCTCCTTTGGCTGCTGGCTTGCAGGAATCAGGATGTACTGTTCCTGTTGG
CCGAGTGGAGACTGGTGTTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGT
TACAACGGAAGTAAAATCTGTCGAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGG
GGACAATGTGGGCTTCAATGTCAAGAATGTGTCTG

Sequence=8504;DNA;Homo sapiens

ATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTGTAGAGTGG
TGCTGCTTTAATTCATAAATCACAAATAAAAGCCAATTAGCTCTATAACTAAAAAAAAAA
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AAAAGGTCCGGGGCATTCGGGGAGGCATAACCACACTTGGGGTGGTTATAGGGCTGGAAA
ACGCTGAAAATGACTGTTTTCATTGGGG

Sequence=8505;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTT
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TGCAATCCAGCTAGGCATGGGAGGGAACAAGGAAAACATGGAACCCAAAGGGAACTGCAG
CGAGAGCACAAAGATTCTAGGATACTGCGAGCAAATGGGGTGGAGGGGTGCTCTCCTGAG
CTACAAAAGGAATGATCTGGTGGCAAGAAATTAACCAGTGCTTTTATTAACTAAGCACTT
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TABLE 2

1346/3461

AGGTTGCGGTGTAGTTGGTCTGTAATTAAGTTGCAGATT
Sequence=8506;DNA;Homo sapiens
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CCTGGGGAAACCACATGGACTTTGGTCAGCTCTATCAGTTCTTAAACACCAAAGGATGTG
GGGATGTTTTCCAGATGTTCTTTGGTGTAAAAGGACAATGACATCAAGAGTGGTTGAAAG
TATCTTGCCACTGTTGGCCTTTTGATTTTTTTTCCCACTTTTTCTTGAAAGATTAAGTAA
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TGAAATGCATCTGTTAAAAATGTCATGATTGAAAGCATAACTGAGTTTCAAATTACAACC
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Sequence=8507;DNA;Homo sapiens
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AGGGACCGGGGATTTGGGAACTCGAAAACGAGCTGAGGGAAGGGAGCCTGTGGAAATAGA
CTGGAGTCTGGGTAGTGTCGTTTCCTAGAGAATGGTCTCGAAGTAACTTCTCGGTAAAGT
CTTCACGGAATTTCCAGACCACGCTTGCCCACTGGGAGGCTTTTAGGACCCGAGACGTGT
GCAGGCTTTTCCAGCCAAAATGAAGTTTAATCCCTTTGTGACTTCCGACCGAAGCAAGAA
TCGCAAAAGGCATTTCAATGCACCTTCCCACATTCGAAGGAAGATTATGTCTTCCCCTCT
TTCCAAAGAGCTGAGACAGAAGTACGCGGGGCATGCGAAGCTTTCCACTATG
Sequence=8508;DNA;Homo sapiens
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GTTGTGTTAA
Sequence=8509;DNA;Homo sapiens
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Sequence=8510;DNA;Homo sapiens
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GGTGCCTAAT
Sequence=8511;DNA;Homo sapiens
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Sequence=8512;DNA;Homo sapiens
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TABLE 2
1347/3461

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AGTCTGGAGCAATTGAGATGTCACTTTACATGGGAGGTATCCATTGATGACCATGAAATG
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GGAATACACAACTTACT

Sequence=8513;DNA;Homo sapiens
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AAAGAAGAGGCTGCAGAATATGCTAAACTTTTGGCCAAGAGAATGAAGGAGGCTAAGGAG
AAGCGCCAGGAACAAATTGCGAAGAGACGCAGACTTTCCTCTCTGCGAGCTTCTACTTCT
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AGACTACAAGAAT

Sequence=8514;DNA;Homo sapiens
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AAATTCACCTGGTGAGCAATGAGGACCCTACTGTTGCTGCCTTTAAAGCTGCTTCAGAAT
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TTGTTAATTCTGTAAACCCACATGATATTACAGTTGGACCTGTGGCAAAGTCAATTCTAC
AACAAGCAGGAGTTGAAATGAAATCGGAATTTCTTGCCACAAAGGCTAAACAGTTTCAAC
GGTCCCAGTTGGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTC
GATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGG

Sequence=8515;DNA;Homo sapiens
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CACCTAGGAAAATGCCCAAAAGGATTTCAATATCCAAACAACTGGCTTCAGTGAAAGCTC
TGAGGAAGTGCTCAGATCTGGAAAAAGCTATTGCCACCACTGCTCTGATTTTCAGAAATT
CTTCTGACTCTGATGGTAAACTTGAAAAAGCTATTGCCAAAGATCTGCTGCAAACCCAAT
TTAGGAATTTCGCAGAGGGACAAGAAACCAAGCCAAAATACAGAGAGATCCTTTCTGAAC
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AAAAAAAAAAAAAAAAAA

Sequence=8516;DNA;Homo sapiens
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Sequence=8517;DNA;Homo sapiens
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ACTCGGGGGCTGTCCAAACTGAACCTCCTAAGAAGGCGCACTCAACCCAGCTGTCTTGGG
TTCATGAGAAAAAATCCCAAGAAGGAAAGCCATAAGAACACACAGAGCCAAAAAGCCTAC
CCAAGCATGCATCAGATACAGGAAGTAACTATGCTCACAATAAAAAAGCAGTTTCCAGAA

TABLE 2
1348/3461

CAGCTGAACAGCTGCCATCACAGAAACCAACCGAACCAAAGACTAAACCACAAGACATGA
TTTTT
Sequence=8518;DNA;Homo sapiens
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TTCCTCCCTTCCAGTTCCTCAGCAGGCCTGGCTGAAGGCCCAGGAGGGAGGGAATTT
Sequence=8519;DNA;Homo sapiens
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ATTGAGAAGTTCAGCTGTTGTAGAGCTTGATTTGGAAGGCACCAGAATCCGGAGGAAAAA
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Sequence=8523;DNA;Homo sapiens
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CAAAACTCAGAGAAATGTGTCATCAGGAGAACATCATAACCCAT
Sequence=8524;DNA;Homo sapiens

TABLE 2

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CGCGTACGCGCGTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGC
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CTGGAGCTCCTGACGGTCTATGCTTGGGAGCGAGGGAGCATGAAAACACATTTCAACACA
GCCCAGGGATTTCGGACGGCTTGGAATTAGTCATAAACTACCAGCAACTCTGCATCTACT
GGACAAAGTATTATGACTTTAAAAACCCCATTATTGAAAAGTACACAGGAGGCAAAGTGT
TTCACATTATAGACTTCACTTCCAACTCCTTGGAATGTTCATTTCTTTGGCTTACAGGAG
AGACTAGACAGGAAGGCCAGGCAATGCTTAGGCAACTAAAATGAGGTTGGGGGTAATGCT
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TGTTAGCTGGAAGCATGGTGAGCACCA

Sequence=8525;DNA;Homo sapiens

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TAAAACTGCCATAATGCCGTGCACAGCTTGAAAAGCAATTAGAGCAAGCAAGATAGTTGT
TCTCCTTGCAGCTCTGAGAAGGCCTGGCTGAAGGCCCAGGAGGGAAGGAAATATAAGAAC
CAGCAATAAAAATAGCAATAGCAATAAGAAGAATGCCATCCCATGGAGCACACCATAGTT
GTGGAACCACCTCTCCCGGATCAGGCTTACATTGCTCACGATGCTCACGCTGGGCAGTCG
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GGTCTCTCCACCTGAA

Sequence=8526;DNA;Homo sapiens

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CCTCTGCAAAATCATGAAAGACATATTGGAGAAAAAAGTTGAAAAGGTGGTTGTGTCAAA
CCGATTGGTGACATCTCCATGCTGTATTGTCACAAGCACATATGGCTGGACAGCAAACAT
GGAGAGAATCATGAAAGCTCAAGCCCTAAGAGACAACTCAACAATGGGTTACATGGCAGC
AAAGAAACACCTGGAGATAAACCCT

Sequence=8527;DNA;Homo sapiens

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TCTCTTTCGAGGTGCTGGCCGCCTTCAACGCTCTGAGTAAGCATTGCTGGGTGTCAGGAG
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TAGATACCACTGCTGCTGTAAAAAATGGGAGACCATAGACCCTCAGGAGAAAAGAATCCC
TTCTACCCTGGACTCGCTCTCTTCTCTGGAACTAACTTCTCCCCCATACCCTGATTGTCT
TTGGAGAAAATGTTCTGGATTCTAGAATCTAAGGCAGAGCCTTTTAAGCCATACTGTACC
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CTTATCGATACCGTC

Sequence=8528;DNA;Homo sapiens

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Sequence=8529;DNA;Homo sapiens

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TABLE 2
1350/3461

TTGAGGAAACACTGCTTGAATTTCCCCATAGCCTCTGCAGCGGCATCACTGTCTATGAAC
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ATGTCCTCCAGGAGTTTGCAGCCAGAATCTGCATAGCAGTGCAGGAGGAGGGCCGCCAGC
ATGAGGACCATCAGCAGCTTCATGGCGAGGCGGCTGCTGTCTGTGTTCAGTCGTGTGTGG
CAGGGATCAAGGAAGTTGCTGTCCCCGCGTACCTCGGCCGCTCTAGAACTAGTGGATCCC
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Sequence=8530;DNA;Homo sapiens
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AGCTTGCTATTGCCAGTCCAGAGGTGAATTCTGGGTTCTTTGGCTTCTTTTTCCAGAGCCT
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Sequence=8531;DNA;Homo sapiens
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AGTCACGATGATCACAGTCTCTGGAAGTGCTCCTGTCCTCTCAGCTGTGGCCACCGTCGG
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ATTTTAT

Sequence=8532;DNA;Homo sapiens
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TGTCAGTATCTA

Sequence=8533;DNA;Homo sapiens
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CCC

Sequence=8534;DNA;Homo sapiens
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Sequence=8535;DNA;Homo sapiens
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AGGGGGAAAACACCCCGAAAAAAACAAAAGGGGGAAAAAAAAGGCCCAAAAAAGGGGCCC
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TABLE 2

1351/3461

Sequence=8536;DNA;Homo sapiens
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CAACGCGCGGAGCAAAAAGGAGAAACCCAGCCCCCGG
Sequence=8537;DNA;Homo sapiens
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GAAGAACACACCAGAAATTTGTCATTGCCACTTCAACCAAAATCGATATTAGCAATGTAA
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Sequence=8540;DNA;Homo sapiens
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GGAAGAAGAGCATTTTAAAAACCAAAACCAAAACAAGGAAAAGCTAAAAAGAGTTTTTTC
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TABLE 2

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TT
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Sequence=8545;DNA;Homo sapiens
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TABLE 2

1353/3461.

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Sequence=8550;DNA;Homo sapiens

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Sequence=8552;DNA;Homo sapiens

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TABLE 2
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ATGAATATAACTA
Sequence=8556;DNA;Homo sapiens
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TABLE 2

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C
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TABLE 2

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TABLE 2

1357/3461

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TABLE 2
1358/3461

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TABLE 2
1359/3461

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TABLE 2

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TABLE 2

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Sequence=8603;DNA;Homo sapiens

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Sequence=8604;DNA;Homo sapiens

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TABLE 2
1362/3461

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Sequence=8609;DNA;Homo sapiens
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TABLE 2
1363/3461

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Sequence=8611;DNA;Homo sapiens
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TABLE 2
1364/3461

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Sequence=8622;DNA;Homo sapiens

TABLE 2
1365/3461

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Sequence=8623;DNA;Homo sapiens
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Sequence=8628;DNA;Homo sapiens

TABLE 2
1366/3461

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TABLE 2

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TABLE 2

1368/3461

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Sequence=8640;DNA;Homo sapiens

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TCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAA
GTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT
GCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGC
GGGGAGAGGCGGTTTGCGTATTGNGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCG
C

Sequence=8641;DNA;Homo sapiens

TCACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTACAAGCTT
CGACCCACGCGTCCGGATTAAAGTCCTACGTGATCTGAGTTCAGACCGGAGTAATCCAGG
TCGGTTTCTATCTACTTCAAATTCCTCCCTGTACCTGCCCGGGCGGCCGCTCTAGAACTA
GTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGG
GGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAA
TCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATA
CGAGCCGGGAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTA
ATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAA

Sequence=8642;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGTACAAGCTTCGACCCAC
GCGTCCGCCACACGTAACTGAGATGCTCCTTTAAATAAAGCGTTTGTGTTTGAGGTTAAA
AAAAAAAAAAAGAAAAAAAAAAGTGCGGCCGCTCTAGAACTAATGGATCCCCCGGGCTGC
AGGAATTCGATATCAAGCTTATCGATACCGGCGACCTTAAGGGGGGGCCCGGTACCCAGC
TTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTT
CCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAG
TGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTG
TCCGCTTTCCATTCGGGAAACCTGGCGTGCCAGCTGCATTAAT

Sequence=8643;DNA;Homo sapiens

CTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCACTCTTAATTTTTTTTTTTTT
TATTATCTAAATCAGCTTTATTTAAGAATTTCCAACAATGACAACTCTTATAAGAGGCAT
CCAAGCACAGGACACAGAACTGCAACAAACAGCATTCTTACGGACGCGTGGGTCGAAGAC
CTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATC
GATACCGACGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTT
AATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCT
CACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAAGCCTGGGGTGCCTAATG
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GGCTTGCCAGCTGCATTAATGAA

Sequence=8644;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGAATGGTAAAAATTCC
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AAAAAAGTGCGGCCGGCCGCCCGGGCAGGTCGAGCGGCAGCACTTTTTTTTTTTTTTTTT
TTTTTATGGTTTTTATTTTTCAATTTTTATTTTGGTTTTCTTACAAAGGTTGACATTTTC
CATAACAGGTGTAAGAGTGTTGAAAAAAAAATTCAAATTTTTGGGGGAGCGGGGGAAGGA
GTTAATGAAACTGTATTGCACAATGCTCTGATCAATCCTTCTTTTTCCGGACGCGTGGGT
CGAAGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAA
GCTTATCGATACCGTCGACCTCTAGGGGGGGCCCGGTACCCAGCTTTTGTTCCTTTTAGT
GAGGGTTAAT

Sequence=8645;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCTCTTGTCTAGTATA
CTCAAGGCAGCCTAGTAAATTATTATTTATCTATACAATACTGGAAAAACTGGTAGACAA
AAACATGACTTGAATTGCTAAAAAAAAAAAAAAAAAAAAAGGAGGGAGAATGAAAACTTCC

TABLE 2
1369/3461

GGACGCGTGGGTCGAAGCTTGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGC
AGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGC
TTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTT
CCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAG
TGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTG
CCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAACTGCATTAATGAATCGGCCAACGCGCG
GGGAGAGGCCGGTTGCGTATTGGGCGCTCTTCCGC

Sequence=8646;DNA;Homo sapiens
GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGCATTTACATACAACTGATCCAAA
CAGGAAGTAAAAGCATTATGAAAAAAGAACATGATGCAAATCATTTCCCGGTGACAAAAG
GAGGGATCTGCGTGAATTACAGCAAATCAAATGATTTCCACATTATAAAAGCAAGCCATG
GCTTCTACAGATATTTTAATTCCTTGGGAGGAAGTTTCACCTCATCGGACGCGTGGGTCG
AAGACCTGCCCGGGCGGCCGGCCGCACTGTTCTTTTGGTCTGTTTTTGCTTTAAAAAATT
CAAAAAATTAGTTTTTTACCTTAATATAATTAGGTCAATGGAATCCTGTTTTGATCTAAT
AACTTCCAATATTGCAATTATTAAATGTGACAAATTCACCTGTTCGGGGGC

Sequence=8647;DNA;Homo sapiens
TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTCAAGCTTCGACC
CACGCGTCCGATTTTTGTCTCCTGAGGTCAAACTGTGCCCATCTTTACTGCCCCTGTGTT
GGTGTCATTCCTTTCAGCGCACTCCATGTTCTGGCAAAACACCCACAGCTCACGTTCTCG
TTGTAGCCACATTACGCCTTTGCATTACTCTTTTGCCACTGACCTCACTGTCAGTCTTCT
TGTCACGCTGTTTCCTCCAGGTGACTCTGACATCATTAGAAGCATGCCAGAACAGACTGG
TGAAAAGTAAACCTTTTCACCTACAAAATTTCACCTGCAAACCTTAAACCTGCAAAATTT
TCCTTTAATAAAATTTGCTTGTTTTAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGCTCT
AAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGA
CCTCGAGGGGGGGCCCG

Sequence=8648;DNA;Homo sapiens
CACTACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTCAAGCTTCGACCCA
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ACTCCTGAAGTTAGAAATAAGAATGGTTTGTAAAATCCACAGCTATATCCTGATGCTGGA
TGGTATTAATCTTGTGTAGTCTTCAACTGGTTAGTGTGAAATAGTTCTGCCACCTCTGAC
GCACCACTGCCAATGCTGTACGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCC
CCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCG
GTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCA
TAGCTTGTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATA

Sequence=8649;DNA;Homo sapiens
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ATTTGCAATACCAAATATACAGGTTTAGTATTTTGCCTGTTAGTGATTGTTTCACATGTG
TAACGTTTTGGTTGAGATGTTAAATGGTGGACGAGTACCTGCCCGGGCGGCCGCTCTAGA
ACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTC
GAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGC
GTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAA
CATACGAGCCGGGAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCAC
ATTAATTGCGTTGCGCTCACTGCCCGCTTTTCAGTCG

Sequence=8650;DNA;Homo sapiens
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TTTTTTTTTTTTTACTATTCGTTAGGCTTTTATTTTTCTCTATGTTCTGCAGTAACTAAG
GAAAATCATGGTAAATGTCAATCTTCACACAACAGCAGACACAAAGGGTTTCAGAAACCG
GACGCGTGGGTCGAAGCTTGTACACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCT
GCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCA
GCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGT
TTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAA
AGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTT

Sequence=8651;DNA;Homo sapiens
TGTACAAGCTTCGACCCACGCGTCCGGTTTCTGAAACCCTTTGTGTCTGCTGTTGTGTGA

TABLE 2

1370/3461

AGATTGACATTTACCATGATTTTCCTTAGTTACTGCAGAACATAGAGAAAAATAAAAGCC
TAACGAATAGTAAAAAAAAAAAAAAAAAAAAGTGCGGCCACCTGCCCGGGCGGCCGGCCG
CACTTTTTTTTTTTTTTTTTTTTCACTGTTTAAGGAATTTTTATTAAAGCAAGAATTTTA
TAATCCAAATTACGTTTCCTTGCTCAGTTATCAATTCTGTTACTTAAAACAGAACTGACA
TTCTGAGCTATTCCACAGTAAAGAATTACAAAATTAAAGAAAGGAATGCTTTAAATTTTT
GTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATA
TCAAGCTTATCGATACCGTCGACCTCGAGGGGGG

Sequence=8652;DNA;Homo sapiens

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ATGACATGGGTTCTGCCCTTGAGGTGCTCCCAGTCTGGTGAGGGACACAACACCTTTCAG
GGGACAACCGTGGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATT
CGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTT
CCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGT
GAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAAG
CCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTT
TCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCG

Sequence=8653;DNA;Homo sapiens

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TGGAACTTTCCTTTGGATTTGATCAAGTTGGATAGAGTTGATCAAACCCTGATCAAGTTG
GATAGAGTTGATCAAACCCAATGGGAAAAAGACCAAAACAACAATAAAAAACAGACAACA
ACAACAAAAAACAGTTAGGCAAAACAAACAATGGCACAATTTATATGAT

Sequence=8654;DNA;Homo sapiens

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AGAGGAAGGATTTTAAAGGCAGACAATGACAGACCATTCAGGATAGGTAGGGTTTTAAAG
GGAGCGGACGCGTGGGTCGAAGACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTG
CAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAG
CTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTT
TCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAA
GTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACT
GCCCGCTTTCCAGTCGGGAAAC

Sequence=8655;DNA;Homo sapiens

CGCGGTGGCGGCCGAGGTACCCTAAAATTTAAAGTATAATAATAATAAATTTTTTTTTAA
AAAAAGAGTGTTGTCTTTGTCTTGTATTTTCTGCAGTTTGCATGTGATATTCTTAGGTAT
AGATTTTTTTTTAGTATTTGTCCTGTATATTGTTATTCGAGCTTCTGGGATCTGTGTTTTG
GTGTCTATCATTAACTTTGGAATATTCTCAGTCATTACTGCTTCAAACATTCATTCTGTT
GCTTTTTCTCTTCTGGTATTATCATTACACATATATCACACCTTTTGTAATTCTCCCACA
GTTCATAGATATTCTGTTGTATTTATTTATTTTTTCTCTTTGCCTTTTAGTTTTAGAGAT
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AATTGTTGATGAGAATTATTCATTTGTGTTAGTGTTTTTCATTTCTGCCATTGTCTTTTG
ATTTTTAGAGCTTCCATCTCTCTGCTTACATTACCCATCTGTTCTTGCATGTCGCCAACT
TCTTCTAGTAGAGCACTTAGCATATTGCGTTTGTTTTAAATTCTCAATCTCATAATTCCA
ACATCTGAGTTTG

Sequence=8656;DNA;Homo sapiens

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GAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTT
TTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCC
TGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTG
TAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCC
CGCTTTCCAGTCGGGAAACCT

Sequence=8657;DNA;Homo sapiens

TABLE 2
1371/3461

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTATTTTATAGAAAAGA
AAACAGAGGCTCAGAGAGGTTAATTTTTCCTGGATGTCCTAGATGTTGAATGTTACAACC
TTAATTGACCGATTCCAGAATCAGAGCTATTAAACACAAAACTATTTTAATTCTCTCTAA
ATTCTTAAAGACCCAAGAAAAACAAACTTTATTGAGATAATTAGGAATTTTTTTTAAAAT
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TGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCC
AGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTG
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Sequence=8658;DNA;Homo sapiens
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AAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATT
Sequence=8659;DNA;Homo sapiens
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ATAAGAAAAAGAC
Sequence=8660;DNA;Homo sapiens
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ATAATACATGTTCCACTGTTAACTTTAAGCAAACTTCACTTTTGTTGAAAACCTTGAAAG
TTGGGGATTCCAATTATCCTTTGCTATTAAACGGACGCGGGGGTCGAAGCTTGTCCTAGG
CCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTGGATATCAAGCTTATCGATAC
CGCCTACCTCGAGGGGGGGCCCGGGACCCAGCTTTTGTTCCCTTTA
Sequence=8661;DNA;Homo sapiens
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CAGAATTCTTAAGGCTTTAGGATTTTCAGAATGGTAAATGAGCACTGGCTTCAACTTAGT
CACCAGCTGCATTGGCCCCTAACAAGACAGTCAGCCTGGCCTTTGAAGCGTTGCAACCGG
GCACT
Sequence=8662;DNA;Homo sapiens
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GCGCNACTACCTGATCCCAAACTGAGGCTTTACCCCATCCAAAAGGGGTCAGTTAATTCC
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Sequence=8663;DNA;Homo sapiens
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TABLE 2

1372/3461

TCCGCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAATCATCATTAACTTT
ATTTGGCACTCTTGATAGACATTGGTCCACTCCAACATAAAAAGTAGAATTCACCCACTT
CCACTTAATATTCTATAGAATGAAGTTGTACCTGCCCGGGCGGCCGGCCGCCCGGGCAGG
TACTCTAATGGTGGGGAGAACTTAAGACCCGGTAGGGGCCAAACTTAACTTTTAGGCATT
CCGGAGAATTTCCAAGACAAAACTGCAATCCAGCTGCTTATCTAGGAATACGGGTTAGGC
TGAAAACTTTTATCGCTTTACAAAAGGGAATAAACCTAACACTTA

Sequence=8664;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAAAGATTTTT
TTACACAAAGAAACTTAATGCTGTATTAATAAATTCAGTGTGTAGCTTCAATTGGGATAG
TTCCAAAAGTGAAGATTTTGTGAGGAATAAGTGCAAATTTTTTTTTTATTTTAAAAAATT
CTTTGAAACTCTTAAGTCTTTGTGTCTGCAATAAAATTGTACCTGCCCGGGCGGCCGGCC
GCACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAAATGTTTGAAGTTAACTCATTTTAT
TTCTAGGATTTGGATTTCAACATTTTAATTTCTTTGGAATATAAGTCACTTTTTTGCAAGC
TAAAAAATAGAATCAAACTAAGGTGATCTAGTCCTCTAGGCATCCAGGCTGATCCTTGGA
ATCATGAGCAGAATGATGACATACTACAAGGTGCTAGCAATACG

Sequence=8665;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTGGACTTGAT
TCATAACCAACCAACCCAGGCTGTCATGCTAAAAAAAAGGGCAGAATCTTTGCTGCTGAA
CTACTGCATAGGGTGACTACCATTGCTCCTTTAGTTTAGTTTGGCTAGCAGAAGGTGGTC
TTGCCATGTAAATAAAGCCTCTCAGGTAATCAAAATGTTTCTTTTTTTTACTTTTGCTGGT
GTTTTTTTCTTTTCTTTTTTTTTTCAGCTACAGGAATTTAGCCAATTCAGAGGAAATCTTC
CCCATAATTATGGAACTTTCTTACAGATTTTACCAAGTCTGGTCAACCCAATAAGAAAAA
GACTGAAATAACAACAACAACTTCAACAAATAAAAAAAAACAGTTAAGCTAAATAAACAG
ATGATTGCAGAATTTATGTGATTACTGG

Sequence=8666;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCTTACATAGT
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GCACATGTCATCAGGACTTCTTGAGGCTATGTCACTGGGCATGTCTTCAACCTTGGCAAA
ATAAACTTTCTAAATTAATTGAGACCTGTCTCAAATTTTGGGGGTTCACAGGTGAGTGGG
CTCAGGCATGTGCACTAGTATGACTAAAGGTCATAGACTATTAGACTATTAGTCTATGAC
CTTCCTCTAGAAACACTCGACTGGTAAGGGAAGAATGCCTCAACTGAGCATGTGCACAAC
TCCCATAAACACACTTGTGCTTGCGGAGCCTCTCAAGTGCTGGCAGGCCACTGCTCAGGT
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GCATGCCAACACGTAAAACCTCAAATCAAAACTCAAACCATG

Sequence=8667;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTCAGGTATTG
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TAAAAATAAATATGAGAAAAACAAAAAAAAAAAAAAAAAAAAGTGCGGCCGCTCTAGAACTA
GTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGG
GGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGGGAGGGTTA

Sequence=8668;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGAGGAC
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AATTTGGGAAGACTGGCACACTCTGAGCAGATCTTTTGAAGGAAAACATTGAGGGTGGAT
GAAGGGAGGATGCAGAGCATGGGCTGAGGGGGCAGGAATCTCAGAAGCCTGCACAGGGCT
TCCAAGCACTAGCATTCCTTACTAGCCCCCATTAACTCCTGGGGAAGGGGTGAGTTGAAT
AGGTGGGGAGTGGCCCGCTCTTACCATGAAACTCCAGAATCCTAGCAGCAAGAGACCCCA
TGACCCCTGTGGACACGAGCTGTCCGGACGCGTGGGTCGAAGACCTGCCCGGGCGGCCGC
TCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTC
GACCTCGAGGGGGGGCCCGGTACCCAGCTTTT

Sequence=8669;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCTCCCTGCCCGGGCGGCC
GGCCGCACTTTTTTTTTTTTATTTTTGGAAAAATTTAATGACTCTGGGGATAAAACTACGA
ATTAAATTTATACGATTTTTTAAAGGCTATTAAGCAGAATAATATTCGCTAAATTTTCCT
TGTGCATAACAAACTGTGGTTCTACCATGTAATGTTTAAAAAAATGTATAACCACAATTT

TABLE 2

1373/3461

TACGCTCCTCTGTAACATGACAAGGACTCCATTCAATGACATTTAAGAACTTAATGGGTT
GATGACAATGAACCACATTTTCTAATTTTATGACATGAAGAGTACCTGGGCCGCTCTAGA
ACTAGGGGATC

Sequence=8670;DNA;Homo sapiens

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CGCGTCCGATAAGCCAAAAAATGGGAGACAATTTCACATGGACTTTGGAAAATATTTTTT
TCCTTTGCATTCATCTCTCAAACTTAGTTTTTATCTTTGACCAACCGAACATGACCAAAA
ACCAAAAGTGCATTCAACCTTACCAAAAAAAAAAAAAAAGTGCGGCCGGCCGCACTTTGT
TTCTACTGGGTTTAGACCGTCGTGAGACAGGTTAGTTTTACCCTACTGATGATGTGTTGT
TGCCATGGTAATCCTGCTCAGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTG
CAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAG
CTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTT
TCCTGTGTGAAATTGTTATCCGCTCACAATCCACACAACATACGAGCCGG

Sequence=8671;DNA;Homo sapiens

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CTGCTCCATTTCTCCTGCAACATGTGGATACAGTAATATGATCATACCCTCCCTTGTTCC
CCTCTAGGCCACTTTCCCCTTTAAATATTAACACCATCATAATCATCTTTGGAGAAAGAC
ACCTGGATCTGTCCTGAACCTTGGCAAAAAATAAATAAATAAATAAAAATAAAAAACTCT
TCTCAATTGATTAATACCTGTCACAGATACATTTTGGTTTACAAATCAATGAACAATGGA
GGGAACTCTGTCCTTAATCTTGGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGC
TGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCC
AGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTG
TTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACA

Sequence=8672;DNA;Homo sapiens

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TAATGTCAGTCACTACAGTGATCCAGAATCTTATTCTGGCTATGGAGGAAGCTTAATTAT
TAAGCAACATCTTCCTAAAAAGCTTCTGAATTTCTGATTCATAAGAAAAACAAAACAAAT
GAAAAGAGTATCTCTAACTGAAATAACACTGAAGTTCGAGCTTGGGCCCCCTCCTTTGTG
TTCAACATAATTAACTCTTCAAGATGAAACCGGACGCGTGGGTCGAAGCTTGACCTGCCC
GGGCGGCCGGCCGCCCGGGCAGGTGTTTCTTCTGGGATATCTTTTTCTTCTGGGCAACCT
CCTCTTCTGGTTTAGGAACAATCTGTTCCTTTTCCGTAAGGATCATCTCAATGTGGCAGG
GAGAGCTCATGTATGGGTTAATCCGACCATGAGCTCT

Sequence=8673;DNA;Homo sapiens

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ACCCACGCGTCCGGGCAATTATCAAAAACACTTGGAAAAAGATTTTTATTCCTACTTTTA
AACATACATCAAAATCTAAAATAAAACTAGGCACCTTCAGCTGGGCCTGGTGGCTCATGC
CTGTAATCCCAGCACTTTGGGAGGCTGAAGTGGGCAGATCACTGGATGTCAGAAGTTCGA
GACCAGCCTGGCCTACATGGCGAAACCCCCTCTCTACTAAAAATACAAAAATTAGCCGGG
CTTGGTGGTGGGGACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCACTTG
AACCTGGGAGGTGGAGGTTGCAGTTAGCTGAGATCACACCACTGCACTCCAGCCTGGGCC
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Sequence=8674;DNA;Homo sapiens

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Sequence=8675;DNA;Homo sapiens

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TABLE 2

1374/3461

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C

Sequence=8676;DNA;Homo sapiens
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GGGGTGC

Sequence=8677;DNA;Homo sapiens
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TABLE 2
1375/3461

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TABLE 2
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Sequence=8687;DNA;Homo sapiens
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CCCCCTTAAGGGGGGGAAAACCCCCCC
Sequence=8688;DNA;Homo sapiens
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Sequence=8692;DNA;Homo sapiens
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TABLE 2
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CGGACGCGTGGGTCGAAGCTTGTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCT
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Sequence=8698;DNA;Homo sapiens

TABLE 2
1378/3461

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Sequence=8699;DNA;Homo sapiens
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Sequence=8704;DNA;Homo sapiens
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TABLE 2
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Sequence=8707;DNA;Homo sapiens
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Sequence=8708;DNA;Homo sapiens
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Sequence=8709;DNA;Homo sapiens
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TABLE 2
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CAAACATGTCATAAGTGGTTTGTGTATGTCATAATAAGGGATTATAAAAAGAGGATTTAT
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TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2
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AATATGATAAAGCAGCCCTCTGCAAGTGGTGCTGGATACCACTAAGAAGTCTACTGCAGC
CATGTTGGTTATGATTTTCCATGCAGAAGGGTACAGTTAGTTCATATTTATGTATTGCAC
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Sequence=8753;DNA;Homo sapiens
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Sequence=8754;DNA;Homo sapiens
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TABLE 2

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TABLE 2

1387/3461

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TABLE 2
1388/3461

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TABLE 2
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TABLE 2
1390/3461

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ACTCCGGCCTCAGAACTCTCCAATGTG
Sequence=8793;DNA;Homo sapiens
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TABLE 2
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Sequence=8794;DNA;Homo sapiens
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Sequence=8795;DNA;Homo sapiens
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GG
Sequence=8796;DNA;Homo sapiens
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TABLE 2
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Sequence=8801;DNA;Homo sapiens
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Sequence=8802;DNA;Homo sapiens
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GCGCGGGGAGAGGCG
Sequence=8804;DNA;Homo sapiens
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Sequence=8805;DNA;Homo sapiens
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AATTG
Sequence=8806;DNA;Homo sapiens
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AAGTGCATTCAACCTTACCAAAAAAAAAAAAAAAAAAAAAAAAAAAGTGCGGCCGGCCGCC
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TABLE 2

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AGTAACATACTTGGTGCCACATGACTAGGATATGTTCTCTAGTGCTAACATGTTCGTTTA
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Sequence=8808;DNA;Homo sapiens

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Sequence=8809;DNA;Homo sapiens

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AAAGCATCAATAATTAACAGAATTATTTTAAAAAAAAAAAAAAAAAAAAGTGACCTCGGCC
GCTCTAGAACTAGTGTTTTCCCCGGGCTGTTTTAATNCGAGATCAAGCTTATCGATACCG
NCGACCTCGAGGGGGGGCCCGGNACCCAGCTNGGGGNCCCTTTAGTGAGGGTTAATTGCG
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Sequence=8810;DNA;Homo sapiens

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Sequence=8812;DNA;Homo sapiens

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CCAGCTTATCAACCCTTTGGCTTTGATTTT

Sequence=8813;DNA;Homo sapiens

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Sequence=8814;DNA;Homo sapiens

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TABLE 2
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CAGCAGGCCTCATTGTGTGCAGAAACTGTGGTGGGGGCTGTGCTGCCTCCTCCCTGCCTC
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TABLE 2

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Sequence=8821;DNA;Homo sapiens

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Sequence=8823;DNA;Homo sapiens

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Sequence=8824;DNA;Homo sapiens

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Sequence=8825;DNA;Homo sapiens

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Sequence=8826;DNA;Homo sapiens

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TABLE 2
1396/3461

Sequence=8827;DNA;Homo sapiens
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AGGTAAAGGAAAATTACAGTCAAAGGGGGGTTGTTCTCTGGCAGGAGTGGGGGTCACATG
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Sequence=8828;DNA;Homo sapiens
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CTGGAGACAGAAAGCAGGTGAGTGGTTGCTGGGGCTTGAGCAGGAGGAAGGGCGAGGGAC
TGCAGAATGGCCATGGGCTTTGCCTTCTAGCATGATGAGAATGTTCTGGAATTAGACAGT
GGTAACGCTTGTTCAACACTGCCAGTGTAGTTAATGTCACTGAATTATACACTTTAAATG
GCTAACATGACCAATTTTATGTTATATATATTGGACTACCACAAAAAAACTAGCTGGCAC
CTAAAAACATTCCATTGAACAGGCCCCTTCAGATCTGTGTCTTTTACTGCATGCAAATTA
CACCACAGAGCAGCACCTATGGCAGCGTGGATCACAGGCTCTGTTTTAGGATAGAGAAAG
GACAACAAGGTGTCCCCCCATAT
Sequence=8831;DNA;Homo sapiens
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CTGCCTCACGGGTTCAAGCGATTTTCCTGCTTCAGCCTCCTGAGTAGCTGGGACTACAGG
CACACGCCACCATGCCCAGCTCATTTTTGTATTTTTAGTGGAGATGGGGTTTCACCATGT
TGGCCAGGATGGCCTCCATCTCTTGACCTTGTGATCCGCCCGACTCGGCCTTCCAAAATG
CTGGGATTACAGGCGTGAGCCATCAAGTCTGGCGAGAGAGATTGTTTCTAGATGAGGGTG
GGGGCGGTTGTCCTTAGCCCAAAGCTTGTGCCAGTCTCTATCAGAAATAAATGCCCCCAA
AACCAAAAAAAAAAAAAAAATAAGGTACCTGCCCGGGCGGCCGATATAGAACTAGTGGATC
CCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCC
Sequence=8832;DNA;Homo sapiens
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CGTCAGCAATTTCTCCAAAGAGCGGCGCGACAGCATATGGCACCAGCCCATTTTCAATTT
GCTGAGCATCGGCCAAAGCCTGTATGCGAAAGCCAAGGAGCTGGACAGAGTGAAGGAAAT
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TABLE 2
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GATAAAGGAGTTCGAGCAGGTGCCGGGACACTTGACTGATGAGCTCCACCTGTTCTCCCT
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AGCTTCCCTTGCACATGTGGCTGGCTGTGAGCTGTGTCAAGGAAAGGGCTTTATTTGTGA
ATTTT
Sequence=8833;DNA;Homo sapiens
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Sequence=8834;DNA;Homo sapiens
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Sequence=8835;DNA;Homo sapiens
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GCTCACTGCAACCTCCAGTTTGGGCCACAGAGCGAGACAGCGAGACTCGGTCTCAAAAAA
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Sequence=8838;DNA;Homo sapiens
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AACAATAGGAATGACCCAATTTGAATAACAGAGATAAATGAACAGAGCCTCAGGGAATTG
TGGGAGTATAACAAAAGATCTAACACTGATGTCGTCAAAGTCCCAAAGGAGAGAGAGGGG

TABLE 2

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ATGGGGCTGAAAAAGCACCTGAAGAAGTAATGGCTGGAAGCTCCCCAAATTTGGCAAAAC
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CCT

Sequence=8839;DNA;Homo sapiens

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CCTCCCAAGTAGCTGGGACTATAGGCGCCTGCCACCACGCACAGCTAATTTTTTTGTATT
TTTAGTAGAGACAGGTTTTCACCACGTTGGCCAGACTGGTCTCAAAACTTCTAACCTCAG
GTGATCCACCCGCCTCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCACCCGGCCCAGA
CTCCTTAAAATGTGAGAAGTAGCACTGAGGAATGTGATCAGATTATGGCCTTGATTGGCA
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TTGCCATTTCAGGAGCTCAGCATG

Sequence=8840;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTGTGACATCAT
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CTTGAGCCAGGGAGTTGAAGGCTGCAGTGAGCCCTGTTTTTGCCACCACACTCCAGCTTG
GGATTGATTCCTAAAGACTCATGTTACGTGAGGAAGCAGCTCAGAAGAGGAAAGGAAAGG
AGCCAGGCATGGCTCTTCCTCAGGGACGCCTGACTTTCCGGGATGTGGCTATAGAATTCT
CATTGGCAGAGTGGAAATGCCTGAACCCTTCACAGAGGGCTTTGTACCTGCCCGGGCGGC
CGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACC
GTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGC
GCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAAT
TCCACACAACATACGAGCCGGGAG

Sequence=8841;DNA;Homo sapiens

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CTTAGCCTCCGGAGTAGCTGGGATTACAAGCTAATCCCAGCTAGGCGTGCGCCACCACAC
TCGGCTAATTTTTGTTATTTTTATTATAGTAGAGACGGGGTTTCACCATGTTGGCCAGGC
TTGTCTCAAACTCCAGACCTCAAGTGATCCACCCGCCTTGGCCTCCCAAAGTGCTGGGAT
TACAGGTGCGAGTATATGCTTTTAAAGGGTATCCAATCAAGCTAACTATGGTGATGGAAT
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Sequence=8842;DNA;Homo sapiens

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GCTTTTCCCCACAACCTCAGCCTCTCAGAGTGCTGGGATTACAGGCATGAGCCACCGCGC
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Sequence=8843;DNA;Homo sapiens

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ACCAACATGGAGAAACCCCGTCTCTACTAAAAATACAAAATTAGCTAGGCGTGGCGGCAC
ATGCCCGTAATCCCAGCTACTCCGGAGGCTGAGGCAGGAGAATCACTCGAACTCGGGAGG
CAGAGGTTGCGGTGAGCTGAGATCACACCATTGCACTCCAGCCTGGCCAACAAGAGTGAA
ACTCCATCTCAAAGAAGAAAGAACGGGAAACATGAAGCCTTCCTTTAATGATGATAGTTG

TABLE 2

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CTAAAGTGAATTATTCGAATCTCTTTGCATGTTTTGGCTCTGTTAATCTAACTCTTGTCT
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ATTTCTTCGAGCTATGGGCCTTCAGGAGAG

Sequence=8844;DNA;Homo sapiens

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GATCAGCCCACCTCGGCCTCACAAAGTGCTGGGATTACAGGCGTGAGCCACCTTGCCCAG
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Sequence=8845;DNA;Homo sapiens

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GGTGTCTGAGCCACCTGTTGTTTGGCGTGTGATGGGGGTGGAGGCCCACACAGGGGTGTT
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Sequence=8846;DNA;Homo sapiens

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Sequence=8847;DNA;Homo sapiens

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TCTTAGGCAAAGAGGGCTTACAACAATCAAAAAAACAAAAATAATAAAAACAGTAACAAA
AACAGCAAACCCTGGAGAAGAGGAAGAATCTGATTTCCAGAGTTAACACATTAGTAAATT
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Sequence=8848;DNA;Homo sapiens

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AGAGATCACAGGCATTTCTGACCACGTCTAGCAGAAGTGGGGGATGACCTGTAAGGGCTC
GAGCCAGGAGCAGGACTTGCAGCCGAAGTTTCAGAGCCAGTTGGGGCAGACCTGCTCCTG
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TABLE 2
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Sequence=8849;DNA;Homo sapiens
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AGTGGATCCCCCGGGCT
Sequence=8850;DNA;Homo sapiens
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GGAA
Sequence=8855;DNA;Homo sapiens
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TABLE 2
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Sequence=8856;DNA;Homo sapiens
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Sequence=8858;DNA;Homo sapiens
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Sequence=8859;DNA;Homo sapiens
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CTCATTTAAAGATACAAATTTGATTGGCTACTATTGATTACACTTGAAGGGGATTTGTTA
Sequence=8860;DNA;Homo sapiens
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Sequence=8861;DNA;Homo sapiens
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Sequence=8862;DNA;Homo sapiens
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TABLE 2

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ATGTCAGTGAACACCCACAAGTTTTGCTCAGAATATTTTAGGTGTAAGCTAAATCCCTAA
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TAGAGTTTTTTCAGGCTCAGGAATCACATGGTCGTTGTTGGGCTTGGGGTAAGTTTCACA
GGCGATGAAGCTGACGTTGAGTCACTTGACTTCTGGAGCCATAATTTATTTTCTCCCAGC
AACCTCCTACTGGGGATTCTCATGTTTATGGATACAGTTTGGC

Sequence=8863;DNA;Homo sapiens

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Sequence=8864;DNA;Homo sapiens

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Sequence=8865;DNA;Homo sapiens

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Sequence=8866;DNA;Homo sapiens

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Sequence=8868;DNA;Homo sapiens

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TABLE 2
1403/3461

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TABLE 2
1404/3461

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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2

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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2

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GTGATTGAACACTCAACACAAGCACAGGACACCCTTTCTGAACCGATGAGTCCTACTCAC
GTGACACAGTCACTCAAAGATCAAACATCTATACCAAGCCTAGCATCCCCTTTCCATCTT
ACTGGAAGTCTAACCTGAGGCTCGGACACAGGGGAGAANGCTCTCTGAGGCAACCACTTT
GTGGAAACCATCTACAGACACACTGTCCAGAGAGATTGAGACTGGCCCAACAAACATTCA
ATCCACTCCACCCATGGACAACACAACAACAGGGAGCAGTAGTAGTGGAGTCACCCTGGG
CA

Sequence=8937;DNA;Homo sapiens

GTGGCCGTTATATTCAGAAGTGGTTCCAGGTCTTAGCACAAAACATGGATGCACTTTAGG
CCATGCATGGTGGCTCACACCTGTAATCCCAGCACTCTAGGAGGCCAAGGTGGAAGGATC
CCTTCAGCTCAAGAGTTTGAGACCAGCCTGAGCAACATAGGGAGACCCTATCTCTACCAA
AAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCG

Sequence=8938;DNA;Homo sapiens

TGGCGGCCGAGGTACTTTTAGGATGACTGGTAAACTATGGAATATCAGACGTGGACATCT
GGCAGACATTTTCTTTAAAATGAATAAAGTGAGCTTATCACCTCAAGGAAAACAACTGAA
GCCATCTGTTGCCAATGATAAAAATATGAGATTTAAAAAAATGTTGAAGTTTCAGGCTAA
AATTAAAATTTTGAAAAACTTATATTGGCCACCACAAGTTTGACACCTTACC

Sequence=8939;DNA;Homo sapiens

ACCGCGGTGGCGGCCGAGGTACTTTTTTTCTTTTCTTTTCTTTTTTTTTTTTTTTGAGAC
GGAATCTTGCTCTGTCACCCAGGCTGGAGTGCAGTGGCGCAATCTCGGCTCACTGTGAGC
TCCACCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCTTGAGTGGCTGGGACTACAG
GTGCCCACCACCACGCCTGGCTACTTTTTTTTTGTATTTTTATTAGAGACGGGGTTTCACT
GGGTTAGCCCAGAATAGCCTCGATCTCCTGACCTTGTGATCTGCCCGCCTTGGCCTTGTA
GCCCTTTTTGACCCTTAAGGGACGNGCACTGGAATATTGTTTGGGAGCCCAATGTTTTTG
AGGCAGGCTTAGGGAGCAGGAAACCATACAGGTGTAGCAGCCTTTCCAGCTGATCCCCAT
GCCCTGCTGCACCTGGAGGGCTGGAACAAGCTATTCTCATATTGGGGAAAAGGGCTGATG
GGACCTCAGTCATGTGGCAGAGAATCTGAAAGCCAGAAGCTGGCAGGTCTG

Sequence=8940;DNA;Homo sapiens

GGCGGCCGAGGTACTTGGTTCCTTTTCTTTTCTTTTTTTTTTTTTTTGAGACGGAATCTT
GCTCTGTCACCCAGGCTGGAGTGCAGTGGCGCAATCTCGGCTCACTGTGGGCTCCAGGTC
CCGGGTTCACGCCATTCTCCTGCCTCAGCCTCTAGAGTGGCTGGGACTACAGGTGCCCAC

TABLE 2

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CACCACGCCTGGCTACTTTTTTTTTGTATTTTTATTAGAGACGGGGTTTCACT
Sequence=8941;DNA;Homo sapiens
TGGCGGCCGCCCGGGCAGGACCTGTTTTATCCCAGCTGAGAGGCAAGGAGAACCTTTGTT
TCTTAAAAAATAAGCTGGTTTCAGCCAGGTGCGGTGGCTCACGCCTGTAATCCCAGCTCT
TTGGGAGGCCGAGGCGGGCGGATCACCTGAAGCCAGGAGTTCGAGACCAGCCTGGACAAC
ATGGTGAGACCTTGTCTTTATTAAAAATGCAAAAATTTGGCCAGGCGCGGTGGCTCACCG
CTTGGAATCCCAGCACTTTGGGAGTCCGAGGCAGGTGGATCACAAGGTCAAGAGAATGAG
ACCAATCCGGGTTACACAGGGAAACCCCATCTTTGCTAAAATTTTTTAAAAAACAAATTT
GGCTGGGCATGGTGGTGGGCACCTGTAGTCCTAGCTACTTGGGAGCCTGAGGCAGGAGAA
TGGTGTGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATCGCACCACTGCACTGCAGC
CTGGGGGACAGAGTGAGACTCCGTCTCAAAAACATAACAAAACAAA
Sequence=8942;DNA;Homo sapiens
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GGAGAGGCAGATAATTTGGATGAATTCCTCAAAGAATTTGAAAATCCAGAGGTTCCTAGA
GAGGACCAGCAACAGCAGCATCAGCAGCGTGATGTTATCGATGAGCCCATTATTGAAGAG
CCAAGCCGCCTCCAGGAGTCAGTGATGGAGGCCAGCAGAACAAACATAGATGAGTCAGCT
ATGCCTTCACCACCAACCTAGGGGAGTAAGCNAAAAGCTGGACAAATTGACCCAAAGCCT
GTGATGCCTCCTCAACAGGTAGAGCAGATGGAAATACCACCTGTAGAGCTTGCCCAGAGG
AACCTGCAAATATCTGTCAGCTAATACCAGAGTTAGAACTTCTGCCAGAAAAAAAAAAAA
AAAAAAGTACCTGCCCCGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAAT
TCGATATCAAGCTTA
Sequence=8943;DNA;Homo sapiens
CGCGGTGGCGGCCGAGGTACTTCGTTTTATTTTTTATTATTTTCTTATTTAGGGGAGAAC
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CTTGCTCTTGAGGGCCATTAAGTAAAATAAGAGTTACTCAGGCTGGGTGCAGTGGCTCAT
GCCTGTAATCCCAGCACTCTGGGAGGCCGAGGCGGGCGGATCATGAGGTCAGGA
Sequence=8944;DNA;Homo sapiens
GGAGCTCCACCGCGGTGGCGGCCGAGGTACAACATACTGCTTTGATAGATATATACAAAA
CACCACCTGCTTTTGATGGAAACGGGGCCCAGAAGCAGATCCTGAGATGAGGATTAATGT
GCAATTCATGTAATATATAACACAGTATTCAGGAAGTGCTCACAGGATAAACCAATGAGG
GAGTGGGTTCAGGGGCAGGACAGGGAAGGGAACTAAACTGAGCAAGGGAC
Sequence=8945;DNA;Homo sapiens
AGCTCCACCGCGGTGGCGGCCGAGGTACAGATAATTCAAATCTATTATCTAATGTATTAG
GTTAATTTCTATTTGTTCTATACTTTTTTTTTTTTTTTTGAGATGGAGTCTTGCTGTGTCG
CCCAGGCTGGAGTGCAGTGGTGCAATCTTGGCTCACTGCAAGCTCCGCCTCCTGGGTTCA
TGCCATTCTCCTGCCTCGGCCTTCCAAGTAGCTGGGACTACAGGTGCCCGCCCCGACACC
TGGCTAATTTTTTAAAAAAATATTTCTTAGTAGAGACAGGGTTTCACCGTGTTAGCCAGGA
TGGTCTCGATCTCCTGACCTCGTGATCCCGCCGCTTTGGGCCTCCAAAAGACTGGGGATA
CAGGCGGTGAGCCACCGCACCCGGCCTATTGACATTATTTAAGGTTTCAGATTTTCTTTT
GTGTGTCTAGTAATTCGTCTTTTATTGTCAAAGATAATTTGCTTATTTGACTCAGAAAAA
TGATTTGTGGGCATACAATATTGTATGTGGTACCTGCCCGGGCGGCCGCTCTAGAACTAG
TGGATCCCCCGGGCT
Sequence=8946;DNA;Homo sapiens
AGCTCCACCGCGGTGGCGGCCGAGGTACAGATAATTCAAATCTATTATCTAATGTATTAG
GTTAATTTCTATTTGTTCTATACTTTTTTTTTTTTTTTTGAGATGGAGTCTTGCTCTGTCG
CCCAGGCTGGAGTGCAGTGGTGCAATCTTGGCTCACTGCAAGCTCCGCCTCCTGGGTTCA
TGCCATTCTCCTGCCTCGGCCTTCCAAGTAGCTGGGACTACAGGTGCCCGCCCCGACACC
TGGCTAATTTTTTAAAAAAATTATTTTTAGTAGAGACAGGGTTTCACCGTGTTAGCCAGGA
TGGTCTCGATCTCCTGACCTCGGGGACCCGCCCGTTTGGCCCTCCAAAAGTACTGGGATT
ACAGGGCGTGAGCCACCGCACCCGGCCTATTGACATTTTTTTAANGGTTTCAGATTTTCTT
TTGTGTGTCTAGTAATTCGTCTTTTTATTGTCAAAGATAATTTGCTTATTTGACTTAAAAA
AATGATTTGTGGGCATACAATAT
Sequence=8947;DNA;Homo sapiens
AGCTCCACCGCGGTGGCGGCCGAGGTACAGATAATAACATCTGATATCCACATGGGGTCT
GGAGGTGCAAGCCACCTTCCTTTCATCCCACGGTCTCACAGCAGCCCTGGAAAGAGGCTG

TABLE 2

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CTCTCTGTTGGAGGCTAAGGGCCAGTGTTGGAAGGAGCTCGGGTGGAAAGTGTGGTCTGC
ATGAGGGGCTCCCGTGAATAGAGGAGAGGGGTGGCAGGTACCTGCCCGGGCGGCCGATCT
AGAACTAGTGGATCCCCCGGGCTGCAGGAATTCTATATCAAGCTTATCGATACCGTCGAC
CTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTT
GGCGTAATCATGGTCATAGCTGCTTCCTGTGTGAAATTGTTATCCGGTCACAATTTCACA
CAACATACGAGCCGGGAGC

Sequence=8948;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCAGAAGGTCCCGGCAGCAGCAGGAAG
AAGACGGACCCCGCGATGAGGGCGGCGGCAAGGAGCACCTTCATGTTGCGTTCGGAGCCC
CGCGTACCCTATGGACAGTTGTGTCCCCAAGGAAGGATGAGAATAGCTACTGAAGTCCTA
AAGAGCAAGCCTAACTCAAGCCATTGGCACACAGGCATTAGACAGAAAGCTGGAAGTTGA
AATGGTGGAGTCCAACTTGCCTGGACCAGCTTAATGGTTCTGCTCCTGGTAACGTTTTTA
TCCATGGATGACTTGCTTGGGTAAGGACATGAAGACAGTTCCTGTCATACCTTTTAAAGG
TATGGAGAGTCGGCTTGACTACACTGTGTGGAGCAAGTTTTAAAGAAGCAAAGGACTCAG
AATTCATGATTGAAGAAATGCAGGCAGACCTGTTATCCTAAACTAAGGGTTTTTAATGAC
CACAACAAGCAAGCATG

Sequence=8949;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTCATCCCCTCAGTGACTAA
GAATTGCAGTATTTAAGAGGTAGCAGGAATGGGCTGAGAGTGGTGTTTGCTTTCTCCACC
AGAAGGGCACACTTTCATCTAATTTGGGGTATCACTGAGCTGAAGACAAAGAGAAGGGGG
AGAAAACCTAGCAGACCACCATGTGCTATGGGAAGTGTGCACGATGCATCGGACATTCTC
TGGTGGGGCTCGCCCTCCTGTGCATCGCGGCTAATATTTTGCTTTACTTTCCCAATGGGG
AAACAAAGTATGCCTCCGAAAACCACCTCAGCCGCTTCGTGTGGTTCTTTTCTGGCATCG
TAGGAGGTGGCCTGCTGATGCTCCTGCCAGCATTTGTCTTCATTGGGCTGGAACAGGATG
ACTGCTTGGGCTGCTGTGGCCATGAAAACTGTGGCAAACGATGTGCGATGCTTTCTTCTG
TATTGGCTGCTCTCATTGGAATTGCAGGATCTGGCTACT

Sequence=8950;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAG
ATAGCAAAGACTGGGACCACAGTGGAGGGATGCCTAATCCAGACAAGGGCAGGAATAGGC
AGGGAAGGCTTCCTAGAGGAAGTGATTTCCAAGCTGAAACTTGACAGATGGAACAGAAGT
TAGCCAGAGATGGGAAAACTATTTTTGGTCAATGGAAGAACAGGTGGTTGAGATAGAATC
TGACACATGAGAGCAAAAAAAAAAAGTTCAGTGATGGGAGAATACAGCGTGAGAATAAGAC
AATATGAAACTGGCGATATAAGTAAGTGATCATCACAAGGCTTTGTAGGACATACTAGGG
AGTTTAAGACTTTTTATTCTGAGGGCAATGGGGAATCACAAGAGGGAGTTAGGCACTTTA
CACAACTCATTTGCCTTGGAGGCGGTATAACTTACGCAAGAAGGAGAAAATGGGCTTTGA
AACAGACTTGAACCTAGCTTTGTCACTGCCTTATTTGGTGCCCTTGGACACA

Sequence=8951;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTGCAGGCCTCCTACACCTA
CCTCTCTCTGGGCTCCTATTTCGACCGCGATGATGTGGCTCTGGAAGGCGTGAGCCACTT
CTTCCGCGAATTGGCCGAGGAGAAGCGCGAGGGCTACTAGCGTCTCCTGAAGATGCAAAG
CCAGCGTGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCCATATCAA
GCTTATCGATACCGTCGACCTCTAGGGGGGGCCCGGTACCCAGCTTTGGTTCCCT

Sequence=8952;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTGTGGATATCATAGAAAGTGTA
GTTTCAAAGGAGATGGACAAACGATACCTACAGTTTGATATTAAGGCCTTTGTGGAAAAT
AATCCTGCCATTAAATGGTGTCCTACTCCAGGCTGTGACAGAGCAGTAAGACTAACGAAA
CAAGGGTCAAATACATCTGGATCTGATACACTCAGCTTCCCATTGCTGAGAGCTCCTGCT
GTTGATTGTGGAAAAGGACACCTCTTCTGCTGGGAGTGCCTTGGTGAAGCACATGAGCCT
TGTGACTGCCAAACATGGAAGAATTGGCTGCAAAAAATAACCGAAATGAAACCAGAAGAA
CTTGTGGGAGTTAGTGAAGCCTACGAGGATGCCGCCAATTGTCTCTGGTTATTAACTAAC
TCCAAGCCTTGTGCCAACTGTAAGTCTTCAATAC

Sequence=8953;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTTTTTTTTTTTTTTTTTTTTT
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GCCTCCCGGGTTCGTGCCATTCTCCTGCCTCACACTGTCGAGTAGCTGGGACTACAGGCA

TABLE 2

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CCCACCACCAAGCCCAGCTACTTGGGATCGCATGAGCCTGGGAGTTTGAGGCAGCAGTGA
GCCATGATCACTCCAGCCTGGGCAACAGAGTGAGACTCTCTCACAAAAATTAACTTTACT
TAATTACTTTTATTATTGCCATAATCGCTCCATTTTATTGTTGTTGTTGTTGTTGTAAAC
CAAATTGTAAAACCATTTTATATTTGTTGCAAACCAAAAAGTTTCTGAGACAGGTCTCAA
TTTATTTAGAAGTTTATTTTACCAAGGCTAAGGGCATGCACCCAGGCCCAAGGGCTGTGC
CTTTTTCCT

Sequence=8954;DNA;Homo sapiens

AGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGTGATAAGGCT
AATATTTTTTAAAAGGAGGCACAGTGAATTTAAGACATTGACATTTATAGCCGTAGCTCG
ACGCTTACTCTTGGAGGCCCAATTATCATCCCTGTCCATCTTGTAAGTGTCATGTCTTCG
TCATCTTCTAGACCCCAGCTAACTGTGCCATCTCCTACTCCTTTCTGGCCTTCTTCGAGT
TCTTCCAACAGTCGGAAATTGCGAGGGACTTTTACTCCCGAGCCCGTGGTGGCTGCCATC
TTGCGTCGCTGTTGCTTGAAGGCCGGCCCCTTCTCCCCGCGTCCTGCCCGGGCGGCCGCT
CTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCG
ACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTT

Sequence=8955;DNA;Homo sapiens

CGGTGGCGGCCGAGGTACTCTCCGCCTAAGTCCATAGAGAGGCTAACACCCTTCTAGTTT
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GGTCACTCAAAAATGTTTCTCTCAACAGCTGTGATAAGTATAGGCTTATTTTGATGTCTA
AAGATCTGTTACCTGTATCTGATTTCATCTTCCAACACATATTCAGTTGAATATCAACTA
TGTCCTGTGCTCAGGACAAGTGTGCATGAGAACATCATACACTAAGTTTATCATTAAATG
GGAAACGAGCAGACATTTTAAAAAGCACCCAAACCGGCCGCTCTAGAACTAGTGGATCCC
CCGGGCTGCAGGAATTCGATATCAAACTTATCGATA

Sequence=8956;DNA;Homo sapiens

TGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGGCTGACTCTCTTCTCAGATTCAG
CCCAGTTGCACCCAAGTAAAATAAACAGTCTTGTTGCTCACACAAAGCCTGTTGGTGGAC
TCTCTTCATATGGACTCATGTGACATTTGGTGCCGAAGACCTGAGACAGGAGGACTCCTT
TGGGAGACCGGTCCCCTGTCCTCGCCCTCTCTCCATGAGATCCACCCATGACCCTGGGTT
CTCAACCCAGCCGAAGGAACTTCTTCACCAATTTTAAATCGGGGACGCAAAGCCAACAAG
AATGAAGAAGTGGCCAGGTATGGTGGCTCATGCCTGTAATCCCAGCACTTATGGAGGCCG
AGGAGGAAGAATTGCTTGAGGCCAGGAATCCCAGACCAGCCTGGACAACATGGCAAAA

Sequence=8957;DNA;Homo sapiens

GCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACACGGTCAGTCCGGGTC
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ACTGCTGCTCAGACAGTGTCGCTAAAATTCCCTCACTCATTTTCAAGTCTTGTTTTACAT
AATGGCTTTTAAAGCAACTTTTGTTAATGCTACTGATCCTTAATGCAACCTATTAATGTC
CCTTTTGGTGACATCTGGGTTTCATACAGAAAAAAAAAAAGTCAAAAAGGGGAAACAAAA
ATATATATACACATTTTATATATAAACTTAAAAACCTTGTACCTTGGCCGCTCTAGAACT
AGTGGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAG
GGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTA
ATCATGGTCATAGCTGTTTCCTGTGTGAAA

Sequence=8958;DNA;Homo sapiens

TTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTATGGCAGTTTTGCCTCAGGTGCTGAAC
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ATGGCGAGCAGCCTATGGCCCAGGGCCTGTAATCCCTTCCCAAGACTAGCTGCTCAGGGT
GGTGCAGGGACAGGACCAGACCCTGCGCCTATTTCCTGCCTTCTTTCCCCTATAGGGAAC
TCTGTAGGCTGAGCCACTGTCCTGCTCTTATGACATTATATCTTGTGCCTTTCTCCTCAG
CAGTGAGCAGTGAGCTACTCCTGGCCCAGGCCCTAGGGGAAATGGATCAGTCTTTGAGGT
TTCTATTTGGGGAGGGGAGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCG
GGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTA
CCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCCTGGCGTAATCATGGTCATAG
CTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACG

Sequence=8959;DNA;Homo sapiens

AGCTCCACCGCTGTGGCGGCCGAGGTACTTGTTTTTTTTTTTTTTTTGAGACAAGGTCTCG
CTCTGTCACCCAGGCTGGACTGCAGTGACATGATATCGGTCACTGCAACCTCTGCCTCCT

TABLE 2
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GGGTTCAAGGGTGATTCTCGTGCCTCAGCCTCTCAGGTAACTGGGATTACAGGCATGCAC
CACCATGCCTCGTATTTTTTTTTGCGTGTGTTTTTAGTAGAGACGTGTTTCACTATGTTGC
CCGGCTGATCTCCAACTCCTGTAGTCAAGTGATCTGCCCGCCTCAGCCTCCCAAAGTGCT
GGGATTATAGACATGAGCCACCACACCTGATGTCTGATGCTTATTTATTATGTGACCTTA
GCGAAGTGTGGTAGTCATTAGTGCTGGTCTATCTCTATACCTTCCCCAGGCAAGGTAGGA
TTGCACTTCCCGCTTCACTTGTGATTAGGTGGAGCCATGTGACTACTTTCGGCCGCTCTA
GAACTAGTGGATCACCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGAC
CTTGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTG

Sequence=8960;DNA;Homo sapiens
CTCCACCGCGGTGGCGGCCGAGGTACTAGAAACTTTCCAAGGAGTCTTGGGTGTGTAGCC
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AGAGAGGCCCTGCCCTCTGTCCACTAGCGAGAATCCCTAGCTGCCCCAGCCCAGTCTTTC
TCCCCGGCATTCACAAACTTTGCAAGCGTGGTCCAGGGCCTTCTCCAGATCTGTTCCAAC
TTGGAGTGTGAAGGGCTTGAGCATACGGGGGAAGAGAGTCTGCAGAAATTGGGGGAAAAC
TTTTAAAAGATACCCTCATTGTGTCAAAGAGTGTGCCAATCTATTTTTGTATCAGCATTG
GAAGTGCACCTTTCCCCTGGGGCGTGTGGGTGTGTGAATGTGCAAGTGTCTGAGAGATAC
TGCATCAGCCCTAGACCCTCAAGAGCCAGTCCCGCCCTTTACAGAGCATCCCTTTACCTG
GGGCCATGGGTCAGGCTGACCTTCAACAATTATTTCTAGAAGATTTCTGGATA

Sequence=8961;DNA;Homo sapiens
GCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGGACTTCTGGCTTGTTCGCTGGTGGCGT
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ATGCTGGGCGTGTCGTTCTTCTTGATTGTCGATCTCTATCACTACGTGGCCGTAAACAAT
TCCAAGAAGCAGGAATGAAAGTGGCGCTTTCTTCGCCCCAGGGTTCCAGGACATAGTCTG
AGGCAAGATGGAAGGTATGAGGGGCCTTCACACTTAACTTTATCCCTTTTACCCATCACA
ACATACAAAGCAACTACACCTGGATTTTTTCAAACAACTTTTATTTCCTCAGAGTCTTTC
TTAATCCTATGGAACAAAGAAGCTGCCACTGAATAGGGCCCAGTATAGGGGCCTGCTTTT
CTACTCCTTCCCCCAATATAAAAATATAG

Sequence=8962;DNA;Homo sapiens
ATAGGCAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTTATGTAGCCCAAGAAATT
CAAGAGGAAATTGATGGGCTCCTTCAGGAGCAGCGTGCAGATATGGACCAGTTCACTGCC
TCAATCTCAGAGACCCCTGTGGACGTCCGGGTGAGCTCTGAGGAGAGTGAGGAGATCCCA
CCGTTCCACCCTTTCCACCCCTTCCCAGCCCTACCTGAGAACGAAGACACTTCAGCCGGA
GTTGTACCTGCCCGGGGCGGCCGTTCTAGAAACTAGTGGATCCCCCGGGCTGCAGGAATT
CGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTT
CCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGT
GAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGTAGCATAAAGTGTAAAG
CCTGTGGTGCCTAAT

Sequence=8963;DNA;Homo sapiens
CGCGGTGGCGGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGAAACAGGGTCTTGC
TATGTTGCCCAGACTGATCTCAAACTCCTGGCCTCAAGCAATCCTCCTGGCTTAGCCTCT
CAAAGTGCTAGGATTACAGGTATAAGCCACTGCACTAAGTCCAGTGAATCATTTTCCAGA
CAACATTTACTGAATATCCGACACTGCCTTCCACAGACGGGGAGGTTTCCCAAAGAGGCC
GTGCTTTTTGAGAAGCTGGCAAGATAACCCTGGGGTGGAGGGAAGGTGGCCCGCAGCTGA
GACCACCACCTTACTGTCCCCAAATCCTCACCAGAGGTTGCTGACACTTCCCTCTTNCCC
ATCCTCATACTACTTTTCAAATTAGAAACAGTAGAAAATGGGATGATTAGGCT

Sequence=8964;DNA;Homo sapiens
GCTCCACCGCGGTGGCGGCCGCCCGGCAGGTACCAATCATATAATATATATAACATTGCT
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AATCTTACTCCTGGTTCCATTTTTGTCCCACTTGCTTCACTAGGTATGTCATGCTCTATC
TCTTATCCTATGCAGACTTTATGGCAGTAGCCATTA

Sequence=8965;DNA;Homo sapiens
AGCTCCACCGCGGTGGCGGCCGAGGTACAAGCGCTTTGAATATCATGGGCACCATGACTG
TGACCCTACAGGTAGGATTGGATCACTCCATGAGAGTAGCCGGCAGGTTTCTACAATGGC
CTGGGAATGGACTGATTATTTTTATACATTTTCTGGCCTGAGAGAAAGCCAAGGTCCCCT
GCTGTTCACAGCAACCCTGCCTGGGAGCTTGGAATCTTGGTAATCTGCCCGGTGGGATCT

TABLE 2
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ATGGAGGTAGTCTCACCCCTTTTGGTCTTTTGTGGGAAATTAAGAGAAATAATTATCAGA
CATATCATCACCTCCAGTGGAACTACAGAGACCTGGACCCAGCTGCACTATTTTAATGTA
AAAATAACAGTATGGCCAGGTGCAGTGGCTCACGCCTGTAATCCCATCACTTTGAGCAGC
CAAGGCGGGCGGATCACGAGGTCAGGAGATTAAGACCATCCTGGCCAATATGGTGAAACC
CTGTCTCTACTAAAATACAAAAAATTAGCTGGGCATGGTGTTGCGTG

Sequence=8966;DNA;Homo sapiens
GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCCTATATTCTTCTTGATTTCTA
GCCTTTTATTGGCTCTCAGATTGCCAGAGTTGGGACTCAATAGTAAGTAACCATTCTGGT
GAGGTGGAAGCGATTCTACCAGGGTGTGTTATCATGACAGCAGAATCACTGCGTTTTTCT
CTCTACTCTGTGGCATAGACTCTATGCCATATAGTGACGTGTGAAAGGCTTGAGGCTTCC
TAACCTACTAGACACCCTTGGTCATTCTAGTCAGTATGGCACGTGCTGACTGTGTTTTGA
GTCTCTAGCTGTAAAATCACATTACTGCACTTCCTTGCATTTATCTCATACAAAAATGGG
GAT

Sequence=8967;DNA;Homo sapiens
GCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTATTTTTCTTTTTTTTTTTTTGGGGGT
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CAGCCCAGGCCGGTGGTTAATTTTCAACCTTTTTTCAACTGGCTTTGGGTTTTTAAGGCT
TTGTTTTTCGAACTTTTTTCTTTGGAAACCTTCTTCACAAG

Sequence=8968;DNA;Homo sapiens
ACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCGGGTACGCGGG
GGTCTCCAGAGTGAGTGTTCCGGAGAGCACGTGTTAGGGAAGGAGGAGGCTGCGGGCTAA
CCTGCCGGGAGGGAGGATGCTACTGCCTGTTTCCTATTAGTGACAACCCACCTCCTAATC
ACGTCCTGCTTCAAACAAGGTAACATCACAGGACAGCCTCCGAAACAATAACTGTTTGAA
TATCCTTAATCTTCGGCAACTTCAATAACTCCCCAAAATATATGTAATCAGAGAATTAAC
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AAAAAAAAAAAAAAAAAAAAAAAAGTACCTCGGCCGCTCTAAAACTATGGATCCCCCGGG
CTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACC
CAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCT
GTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGCAT
AAAGTGTAAAGCCTGG

Sequence=8969;DNA;Homo sapiens
CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTCACAATACAAC
TCTTGCAGAAAGTATGAAGACACTCTGTGATGGTGGTGGCATCCACGAAGTAGCCGGCGC
ATAGGCAGCAAACAATGTGTTCATTCAAGTCTTTGATCTTCACTCGAACCTCCTCCTGAC
CCTCCTTTCCCAGGGGAGACTACACAACGTCGGCGACACAACGCGCAGGCCCCCGCGTAC
CTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGATATCAA
GCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGT
GAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGCTGTTTCCTTGTGAAATTGTTA
TCCGCTCACAATTCCACACAACATACGAGCCGGGAGCATAAAGTGTAAAGCCTGGGGTGC
CTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTTCAGTCGGG
AAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGTGAGAGGCGGCTTGCG
TATTGGGCGCTC

Sequence=8970;DNA;Homo sapiens
ACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATAACAAG
CAATAATAAAAGTCCTCTGCCGAAGACAGAATAGTGTAAAACCTTTCCTTCCCCTGCCCT
TACAGATTTCTAGAGAAGATAATTTGGGAATAAAAGGTATAAAAGGTTTTTGAGAAAAGA
GAGATCAAAGGACATTCAGAGTTCGGGAGGATATCTGGGAAGCAGACTTAGCTTAGATCC
TAAAGGGTGTAGAAGATCTGCATTGCTGGGGAGGAGTGTGGGAGTGGTAAACCAGTCAAA
GAATTCACAGATGTGCTGGGAGGAGGAGAAGGGGAGCAGAAGCAGGAAAACAGTCTGGCT
GAAACACTGGTTGTATTTCAAAGAGCAGTAGCAAATCAGGGTGGATAAATGTGTGGGCCT
AAGCAGCTGGTGAGCATTAAATGTGTAAGAATCAAATTGTATCCTTAGCAAACCTCTGAA
GATTTCTGATGTAGATTTTTATGAGTGTTGGTAAATTTATATAGGATGCATATGGGTAGT
ACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAAGAATTCGATATC
AAGCTTATCGATACCGT

Sequence=8971;DNA;Homo sapiens

TABLE 2
1419/3461

ACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATAGTGTCGCGAACT
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Sequence=8972;DNA;Homo sapiens
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Sequence=8973;DNA;Homo sapiens
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TABLE 2

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TABLE 2

1421/3461

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Sequence=8984;DNA;Homo sapiens
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TABLE 2
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AGTTCAGGCTGCTCGGGAGACAGAGGCAGGAGAACCACTTGAGGCCAGTTCAGTCTAGCC
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Sequence=8990;DNA;Homo sapiens
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Sequence=8995;DNA;Homo sapiens
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TABLE 2
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TABLE 2

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TCCCAAATAGCTGGGATCACTGGCACAAACCACCATGCCCAGCTAATTTTGTATTTTTTG
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Sequence=9005;DNA;Homo sapiens
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TGCAGCTGTGGAGGAGGGTTTCAGAGGAGAGAGGTCGGAGAGCAAAGG

Sequence=9009;DNA;Homo sapiens
TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGACG
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GCCTTGTGTCATGGGGTAACATCCCCTGTGGATCAAAGGAGAAGCCAGGAGTCTACACCA
A

Sequence=9010;DNA;Homo sapiens
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AAGTAATCCTCTCGCCTAGGCCCATAGTATTGGGATTACGGGCGTGAGCCACTGCGCCCA
GGCTTTACTAGTTTTCCATCTATCTTTAGGCCTCCTAAGATTTCTTGTGGGGCTCCACTT
CCACCAGTCACACCTTTAACTACCAGGGTTCTCTAAGTCCTCTCCTCAGCCTGCA

Sequence=9011;DNA;Homo sapiens
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ATCTAAATAATTGTGAATTAACTATGATAGCAGTATGCACAAACAGTAAGTGAAATCAGA
CCTATTAATTCTGAGAGGAAGGAGGTGTCAGGATTTTCACAGAAGAAGAGCACTAAGGCC
AGGCGCAATGGCTTCATGCCTTGAATCCCAACACTTTGGGAGGCTGAGGCAAGCCGATCA
AGGAGGTCAGGAGTTTTAGACCAGCCAAACAAACATGGGGAAACCCCGTCTTTACTAAAA
ATCCAAAATT

TABLE 2

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Sequence=9012;DNA;Homo sapiens
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TTGTTATTGTTCAAATTCTCCTGAAGCTTGCATAACTAGCTGCCATCAGGTAAATGCTAT
TGGCTAGCAGAAGACTGCAGTTCTGTTAATATTAGAACCAGCAGGGGGAACTTGGGAACT
TGACATTAAAAATCTAGAAACGGAATTTTAGGATGGGTCTCGTTAGAAAACCTGAATTGT
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Sequence=9013;DNA;Homo sapiens
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GAGGATCATGCTAATGAAGATGAAGCAGACGATAATGAGCGTGGCCCAGAGCAGCCAGTT
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CAAGACCAGCTTGACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAGCCGAGC
GTGGTGACACACGCCTGTAATCCCAGCTACTCAGGAGGCAAGGCAGGGGAATTGCTTGAA
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CATTGGCTTTGGCAGCTAATGTTTCATTTGAGAAAATGCTACCTGTATTATTGATGCCCA
TGTGAAAGTAATGAGATTTTTCTCCACATTGAAGATTTCTCTTTAATCTGTGGCTGATGT
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GGGTTGGGACC
Sequence=9017;DNA;Homo sapiens
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CTCCTGGGC
Sequence=9018;DNA;Homo sapiens
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GCTGGACGTTGGATTCTCCTTCCTTCTTCCGCCGGCGGGTGGTCACCAGGACACCGCAGA
TCAGGCATGTGATGAGTCCCAGGAGTCCTGCCAAGCCGATGAGGATGACAGCCCATAAGG
GAAGGTCAGAATTCCCAGTTAAGGGCTCATTTTCTGTTGGGAGAATACCCATCCACAAGG
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Sequence=9019;DNA;Homo sapiens
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TABLE 2
1426/3461

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GGAGCCGAGATTGCCAAGTGCAGTGGATCGAGTCCACTGCACTCCAGTCTGGGCAATAGA
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ACTAGTGGAT

Sequence=9020;DNA;Homo sapiens

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CAAGCGCTTTCTTAAGCGCGGCCAGAGAAACGCCGCTGCGCTCCTTAGAAGCTGCCACTG
CCTTGGTGATAAGCTCAGATACTGGGGGTCCGGATGCTTTGCGTTTCCCAGCAGTTGCGC
CTGCCTTCTTCGCCTTTTTCTTCACAGGTGTTTTTTCTGCGGGTGCAGGAATGGTAGGAG
CAAGTGGAGCAGTCTCCGACATGTTTTTGTCTTCCCAGAAAAGACAATAAGTAATCTCAA
ACTGTCAGAACAGCATGTCCCCCGCGTACCTGCCCGGGCGGCCGCTCTAGAACTAGTGGA
TCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATA

Sequence=9021;DNA;Homo sapiens

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TCTCTGCAGACTGAAGAATTGAACCGGGAGGTCGCTGGCCACACGGAGCAGCTCCAGATG
AGCAGGTCCGAGGTTACTGACCTGCGGCGCACCCTTCAGGGTCTTGAGATTGAGCTGCGG
TCACAGCTGAGCATGAAAGCTGCCTTGGAAGACACACTGGCAGAAACGGAGGCGCGCTTT
GGAGCCCAGCTGGCGCATATCCAGGCGCTGATCAGCGGTATTGAAGCCCAGCTGGGCGAT
GTGCGAGCTGATAGTGAGCGGCAGAATCAGGAGTACCTGCCCGGCCGCTCTAGAACTAGT
GGATCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGGGGGG
GGCCCG

Sequence=9022;DNA;Homo sapiens

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GCTCCCTCCCCAATCATCTTTCCTGTTCCAGAGAGGTGGGGCTGAGGTGTCTCCATCTCT
GTCTCAACTTCATGGTGCACTGAGCTGTAACTTCTTCCTTCCCTATTAAAATTAGAACCT
GAGTATAAATTTACTTTCTCAAATTCTTGCCATGAGAGGTTGATGAGTTAATTAAAGGAG
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Sequence=9023;DNA;Homo sapiens

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CCAGCCCAGCCTTCGGGCCACCCAGCCTGTGGAGGTTGGTCAGGTGGTCACCCATCTTTT
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AGGGCCAT

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CCCAAGTAGCTTGGATCACAGGCGCCCGCCACCACACCCGGCTAATTTTTGTATTTTTAG
TAGAGACATGGTTTCACCAAATTTTTAAAGAAAAATAAAGGTGCATGATCAACAATCAAA
CTTCTAGGACCGTCCCCTAGCAGGAGAGCAGCAGCAGCAGCACACAGACCTGCCCGG
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Sequence=9025;DNA;Homo sapiens

TABLE 2

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ACTCACTTAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGAGCTAACCAC
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AGGAGACGAAAATTTGTGACAAAGGATTGCGAAGAGCTCTCCATCTTCATGATGTTATGA
GGATTGGTGACCAACATTAGAAATATATAATGGAGCAATTGCGGATTTCCCCTCAAATCA
GATGCCTCTAACGACTTTCCTGCTACATATTTCCGGAAGGAGAAA

Sequence=9026;DNA;Homo sapiens

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GATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTACCCAGCTTTTGTTC
CCTTTAGTGAGGGTTAATTGC

Sequence=9027;DNA;Homo sapiens

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GACTTCTGGTCATTTCCAACTTATAGAGGAAGGGAGTCTCTAAAATCTCTTCTTCAGAAG
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Sequence=9028;DNA;Homo sapiens

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CTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGGAGC
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TCACTGCCCGCTT

Sequence=9029;DNA;Homo sapiens

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GATACCATTCACCCAGGATCTCCAGGACAAGAGATCAGCCTGGCAGTTACATGTGTTTTT
TTTCAAACTGGTTGCCAGGTTGGCATGAGCGATGACATCAGAGAT

Sequence=9030;DNA;Homo sapiens

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TABLE 2

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Sequence=9032;DNA;Homo sapiens
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GTGATTTTTTTGATGTTTGGCTCTTGGTCCTTGTTTCCACTGGCTTTCCATCCCCATGGG
GCAGAAACAGTGGCTCCTGGGAGCAGAAAAGGAATTGAGGTGGGCAGGCAGAAGAGCCTG
GATTGCTCACTGTTTTGGGAAACTT
Sequence=9033;DNA;Homo sapiens
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Sequence=9034;DNA;Homo sapiens
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CTCTTGGTAAAT
Sequence=9035;DNA;Homo sapiens
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Sequence=9036;DNA;Homo sapiens
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Sequence=9040;DNA;Homo sapiens
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Sequence=9041;DNA;Homo sapiens

TABLE 2
1429/3461

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Sequence=9042;DNA;Homo sapiens
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Sequence=9043;DNA;Homo sapiens
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TGAGGTCAGGAGTTTAAGACCAGTCT
Sequence=9045;DNA;Homo sapiens
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CAAATTGAAATAATCTATAAATGAATTTGTAGATTTCTTTTTAGTTTAATTCCTGAGTAT
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Sequence=9047;DNA;Homo sapiens
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TABLE 2

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AGACATGCCTAGCCCTGCCCCAACTTGATGGGCCTTCCTATCTACCCTGGTAGCTGAAGG
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ACCT

Sequence=9048;DNA;Homo sapiens

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Sequence=9049;DNA;Homo sapiens

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AGAGGACTCAGGACAGACTAGGATGGAGCCGGGAGGATGGGCTGCAACTGTGGAGGAGGG
TTTCAGAGGAGAGTGGTCGGATAGCAGAGGCCTGAGAAGCTCATAGGCAGGTTGAGAGAG
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Sequence=9050;DNA;Homo sapiens

TGGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTAGTTATTTTAAATTCCACTC
ATAACTTATCGGCCAAAAGAAGTCACATGGGTCCACCTAATCACAAGTGGAGCGGGAAGT
GCAATACTACCTTGCCTGGGGAAGGTATAGAGATAGACCAGCACTAATGACTACCACACT
TCGCTAAGGTCACATAATAAATAAGCATCACACATCATGTGTGGTGGCTCATGTCTATAA
TCCCAGCACTTTGGGAGGCTTGGGCGGGCAGATCACTTGACTACATGAGTTGGAGATCAG
CCCCGACAACATAATGAAACACGTCTCTACTAAAAACACACGCAAAAAAATACAAGGCAT
GGTGGTGCATGCCTGTAATCCCAGGTACCAGAGAGGCTGAGGCACTAGAATAAC

Sequence=9051;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGTGCTCGGAGTTGGTATTGACATAGCC
TTTGTAGAAACAGTGCTTGAGTTCCGCTTCGTGTTCGGAATAAAACTTGGTCTGATTCAC
CCCGGGCGTCCCGAGGAGGGTGACAGTGAACAGCGGAGCGATAAATCCGGCATTGGCGGT
GAGATTAAATAGA

Sequence=9052;DNA;Homo sapiens

CGGGCGGCGGGCCGGGCGCCAGGTACCTGAGAAAAATTTAGTTCTCCTTGGCCAGGCATG
GTGGCTCACACCGGTAATGGTAGCACTTTGGGAGGCCAAGGCCAGCAAGTTGCTTGAGCT
CAGGAGTTTGAGACCAGCCTGAGCAATATGGCGAAACCCCATCTCTACAAAATATACAAA
CATTATCCAGGTGTGGTGGCGAACGCTTTCAGTCCGAGCTACTGATGAGGCTGAAGTGGG
AGGATGGCTTGAGCCTGGGAAGTGGAGGTTTCAGTGAGCTGA

Sequence=9053;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTTTTTTTTATGAGATGGAGTCTCGCTCTGTTGCCCAGGCTGGGGTGCAGTGGTGTGA
TCTCAGCTCACTGCAAGCTCCACCTCCTGGGTTCACGCCATTCTCCTGCCTCAGCTTCCC
AAGTAGCTGGGACTACAGGCACCTGCCACCACACCCGGCTAATTTTGGTTTTGTATTTTT
AGTAGAGACAGGGTTTCACTGTGTTAGCCAGGATGGTCTCGATCTCCCGACCTCGTGATC
CGCCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAAGTATGAGCCACTGAGCCCGGCCTC
TCTGTAGCTTTTAAGATGTTCTTAGGTGACTTATGAGAATGAAAAAATGGAGAATTTTCC
GTCTTCCTGCCATGAAATCAATTAATGGCAATTGCTACTGAAAGCTGTTCTGTTTTTAAA
CAGTAAAAATGACAGTGTTTTCTCAGCCAACAGGAAGTGCTGATTATTCTG

Sequence=9054;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTGGGGGGTTGCTATTATTGTTATTGTTTCTAGATGAATGTGAGAAGCCAAATTATTC
AGTGTCTTAAAGACCATATTAAAAACTCCTGCCAGGCGCAGCAGCACGTGCCCATGATCC
CAACTACTTGGGAGGCTGAGGCAGAAGGATCGCCTGAGTCCAGAAATGCTGGGCTATAGT
GCACTAAGTCAATTGGGTATCTGCACTAAGTTCGGCATAAACGTGAGGGACCACAAGGTT

TABLE 2

1431/3461

GCCTAAGGAGAGGTGAACCAGACCAGCCTGGAAACAGAGCAAGTCAAAACTCCTGTCCTG
ATGAGTAGTGGGACTGCACCTGTGCATAACCACTGTACCTGCCCGGGCGGCCGCTCTAGA
ACTAGTGGATCCCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTC
GAGGGGGGGCCCGGTACCCAGCTTTT

Sequence=9055;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGACAGACGAGATCTCGA
TCGAAGGCGAGATGGCGGACGTGCTAGATCTTCACGAGGCTGGGGGCGAAGATTTCGCCA
TGGATGAGGATGGGGACGAGAGCATTCACAAACTGAAAGAAAAAGCGAAGAAACGGAAGG
GTCGCGGCTTTGGCTCCGAAGAGGGGTCCCGAGCGC

Sequence=9056;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTATTAAAAAAACAGTTTATGTG
CAAGGTGTATAAGAAAAGTAAAACATACCTTTGGTAAAAAGATTATAAAGGGGCATAAGA
ATGTGGATTTTTACCTACATTAAAGGGTTAAAAACAATTATTGTTTTAAAAGTTTAAGCA
AGTTTTAAAACGTTAATTATAAAGAAAATTCTGTGTGTAAACATATTAGCTAAAGTTAAA
AAGGTATCATCCAGTTTTTCTGTGAACTGGACATTAAAGTAAAAAATGCCACAGGTTTTT
CTTAAAGCATCAACCTGCTCTTTAACAAAAATTATAAAAGGTTAAAAAGAGTCTATAAAA
TCTTACCTTATGGTCAAACATGAAAAATTGGATAAATATGTCTACAAGGTTTTATTAAAA
TTCAGTTTAAAATTAATAACACACTAATATAAAGGTAAAATTTAGCTTATCTGGTATAAA
AATCATACAAGAAACATTATTAAATATAAAA

Sequence=9057;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT
TTTTTGAGACAGTCTCCCTCTGTCACCTAGGCTGGAGTGCAGTGGCACGATCTTGGGTCA
CTGAAACCTCCGCCTACTGGGTTCAAGCAGGTCTCCTGCCTCAGCCTCCCCAGTCGCTGG
GATTACAGGCACATGCCACCACACCTGGCTAATTTTTGTATTTTTAGTAGAGACGGGGGT
CTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTTAGCTGATCCACCTGCCCTGG
GCTCCCAAAGTGCTGGAATTACAGGCGTGAACCACTGCACCCAGCCCTTGACCTGTTCTT

Sequence=9058;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTACGAAGCCATCTTGGCTCTGT
GGAACCAGCTCTACATCAACATGAAGAGCCTGGTGTGCTGGCACTACTGCATGATTGACA
TAGAGAAGATCAGGGCCATGACAATCGCCAAGGTATGTCCTCAGGGCCACTTAGGCTGCC
TGGAGGGAGGGCAGCGCTGCCCCCCGCAGTGCCTGTGTCCAACAGTACAACCTTCTTGCT
GTGTAGCAGTGCTTTTGTGTCTCGTCAAGCAAGTCAGCTCACCCCTCCTTAGAGGTTCTG
GTCTGTCCAATAGAGAACGGGAGGGATTAGCATATGGCTGATTATGAGAGAAAGAAGCAA
TACTAATTTAGGTGGCCTGACAAGCA

Sequence=9059;DNA;Homo sapiens

TATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGAAGTG
AACTGAGGGCCACCCTGGGAGGAAGCCGACTAGGCGAATTCACTTACTGACCGGCCTGGG
CTGCTCTGAGACATGGAGGAAGCCAGTGAAGGTGGAGGAAATGATCGTGTGCGGAACCTG
CAAAGTGGGGTGGGGGGAGTTAAGAATATTATGCCCCAGATTGTGGAGCGGATCCTGCCC
CGGGGGGAAAACTTGGAACATCTCCGCAATAAGACAGAGGATCTGGAAGCCACATT

Sequence=9060;DNA;Homo sapiens

GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGGGGCAGGTACCCACTTGGATGACTGGGG
AGAAGGGCTGGGCTGCTGCTGGGGAGTAACACAGGCCTTGGGGCAGGGTTCAGGAGTTCA
TTAGTCTGGAGTCCAGATCGCCACCCAGGGCCCAGCCTGATGTAGTGTTCGCGTTCTCTC
AGCGCTGCAGTTTTCCGATAAAGGAGAGGACTCCTGTGTGCCAGAGCTCTGAATGGGAGC
CTCTTCTCAGTCCAGCCAGGCAGAGGGTGAGGCTGCCACCTTATGGCCACTGGGGGAATT
GGCTCTGGGCTTGGACTCCAATAAGGGGCCGGGAGCTGCAGAGACCTCCAAAAGGTCTCT
TAACTAGTCCTCCAAACCAGGTCCAGTCACTCTCTGTGACCCTTGCCATACGCATGTTAC
TCTCACCTTACACGCCATTGAAGCCCTTGAGC

Sequence=9061;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTGCCATACCTGGC
TAATTTATTTTTTGTGGAGATGGGATCTCACTTTGTTGTCCAATCTGTTCTCAAACTCTT
GGCTTCAAGTGAGCCTCCTGCCTCTGCCTCCCAAAATATTGGAATTATTGGCATGAGTCA
CCATGCCAGATCAAGAAAATATTTATGTATAATTTTATCATACCTCATTGGTCCTAATGT
TTTTTTGCTTGTTTAGGT

TABLE 2
1432/3461

Sequence=9062;DNA;Homo sapiens
TACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTAC
TTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCCGG
GGCCCAAAAATTTTAATGGCCGGGAAAAAAAAAAACCCGGGGAAAGGGGCCCTTTCTTTC
CCATCCTTTTACCAAAAAAACCCCCTTAAAGGGACAAAAAAACCCCCAGGCCCTGTTGTC
AAAAGGGCCCTGGGGGGAAAAAAAAAGGGGGGGGGGATTTTCTGGCCCCAAAAACAGGTT
GGGGGGGGGGCAAATTTCTGTCTCAAGCCCGAATTTGTTTCCCAAGGCCCGTGGTTCCCC
GGGCCGTTTAAAAAAAGGGGGACCCCCCGGGGGGGGGGGATTCGAAAAAAATTTTTTTTA
ACCCGCCCCCCCAGGGGGGG
Sequence=9063;DNA;Homo sapiens
GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTGAGACGG
AGTCTTGCTCTGTCGCCCAGGCTGGAGTGCAGTGGTGCGATCTCGGCCCACTGCAAGCTT
CGCCTCCTGGGTTCACACCATTCTCCTGCCTCAGCCTACTGAGTAGCTGAGACTACAGGC
ACCCGCCACCACGCCCGGCTAATTTTTTGTATTTTTAGTAGAGAGGGCGTTTCACTGTGT
TAGCCAGGATCGTCTTGATCTCCTGACCTCGTGATCTGCTCGCCTCGGCCTCCCAAAGTG
CTGGGCTTACAGGCGTGAGCCACCACACCCGGCCCAGTCTTGTGTCTTAAATACCATTTC
CACATTGACACCTCCAGAATATTTATCTCTAAACCTGACCTCCAGAAGGTGCAGCAAATT
GTGTAAACCATGTCTCCACTACACGCCTAAAGGGCAAGACCCT
Sequence=9064;DNA;Homo sapiens
TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGAGGTGTCCGAACAG
GCAGGTTGGTGGGTTAAGGTCTTAATCTTGACTCGAGATCTCTGCCCGGAGTTCACAGAG
TAGGCGACGAAGCCGAAGCAGCTGGAGCGCGACCCGGAGGAGTCTGACTTCTCGTTGTCT
TCATAATTTTCATTCGTTGCTTTCTTCATGGACTTGCGGCTGGGGGAGGATCCCCGCTGG
TCGCCGAGCAGGCGGGCGGGTAAAGGTAGGCCGCGAGAGCGAGGTTAGGAGAGGAGAGGA
GGCCGCATTACCTCGGCCGCTCTAGAACTAGTGGATCCC
Sequence=9065;DNA;Homo sapiens
ACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACCTGTGACTAAC
AAGGGGTCTGGGAGGATCTGCTGCTCCCATGCCCTCCTTTGTGTGTTTTAAATCTGTTTG
AGCCTTCTGGGCTCCTGTGAATTAGGGAGTGGCAGCTCCTCAGTCTAACTCCTATTGTGA
CCAGGTTGCCTAATTGGCCCTTTGGTTTGGGCACCCACTGTCCTTCTGCGTGGTTGGATA
GATGCTGCTCCCAATGTCCCTGATCTCTTACAGACCCCTCTGATTCTTCACTCTTGGCTT
TGAGAGCCCCTGATGCCCTGCAGTCTTGACTGAGCTTCTAATGGTTGATCAGACCCTTGA
ATGTTGAGCTCTTTCCATACTAGACTTGAATATTCTCCTGCCCATTTGATTTGTTAATTA
GGATTCATTGGCTG
Sequence=9066;DNA;Homo sapiens
GGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAGACATTTTCAAAGT
TGCCAGTGTTACTTTAATTGGACTGCCTTCGTAATTCATTGCCTCTGCTTCAACAATGTG
CAACTCATCCTTTGCACCAGCCCCTAAACTGACCGTTCTTAAAGATAGCTGGTGCTCATT
TTCATCATTATCCACCTTAAAGTGATAATCTTTGTCGGCCTTTAGTTCACAACCGAAAAG
ATAGTTCTGGGGCCTCAGGGGGCTCATGTCCATGTCCATCGAATCTTCCATCGG
Sequence=9067;DNA;Homo sapiens
TTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGACTTGGGAAGCTGAGGCATAAGAA
TCACTTGAACCCGGGAGGTGGAGGTTGCAGAGTGAGCCAAGATCGCAGCACTGCACTCTA
GTCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAAAAAAAAGACTAGAGAATGTCAGGGAA
CACATGTGTATATTTAAACAACTTCACTTTGCATTTAAAAACTCGAAGGACAGCGAAGGT
GAAATCAATTCACGGGCCACCTAGACTTTCCAGTCTAGGAC
Sequence=9068;DNA;Homo sapiens
GCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAACAGAGACATGAGCC
CTTCGGGACACATGCCTGAGGTAGTGACAATCCAACTTTGGAAGAGTGGAAGCCCTAGTT
TCAAATTCAAGCATGCTTTGAGTATAAATTAAGTTTACCTCTTTTTTGCACAGCAACATGG
CCAATCTTTCCTAAGCTGCTCAGCTTACAAGAAAAGGAATCATACTGCTAAGAATTCAAA
CTTCAGCAGTCATAGGTAAGTAA
Sequence=9069;DNA;Homo sapiens
CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGGGTTTCGCCATGTTGGCCAGTC

TABLE 2

1433/3461

TGGTCTTGAACTCCTGACCTCAAGTGATCCACCCACCTTAGCCTCCCACAGTGCTGGGAT
TACAGGCATGAGTCACCACACCCGGCCAGTAGAACTCTTTAAACCTGAAAAATCAGTCAA
CTTTGCAGACTAGAGGAGGATGTTGAACACCTATGTGTGTTTTTTTTTCTTTACCAACTA
TGCACCTATTTTTCAGACACCTAAAAGTAATGTCTGTGAAACAGTGGTTTTCTTTTTCTA
CATATTACAGCAGG

Sequence=9070;DNA;Homo sapiens

GCGAATTGGAGCTCCACCCCCGTGGCGGCCGCCCGGGCAGGTACAAGCTTATAAAATTCA
ATAATTTGTATTAAAATACAAAATCCAATAACAACCAGGAGTTCTTCGGAAGAAAAAAAA
AATCACAAAACAACCCCAACAGTGGTGAAGAACTATATTAAAGATGGCTTTTCCTAAGAC
AGAGGGAGAACAAAAGCAAATAGC

Sequence=9071;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCAAAAGCTCCCAGATTATTTGGAAACCA
TGTTTTCTTCCTAGTCCATGGTAACAAGAAAAAGCCAGTGGAAGCATCATTCCAAACAAT
AATCTCCAAAGATGGTGGCAACCAAGTGTCAAATGGGGACTGCAGGCACAGAAGAGACCA
CCCCAAACCCTGCCTGGGTGGACGAAGCAGGTATGCTAGAATAGTCCTGTCCTGCAGAAT
AGGGAACGGCAGCTTGGTCGATCTGTGCCCTGGAAAAAGAAAATGAGTTGCAATAGAAGT
GACTCTAAGACAGACAATGAACCTACTCTTAAGAGAGACAGGGCCAGGCACGGTGGCTCA
CGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGGGG

Sequence=9072;DNA;Homo sapiens

GAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGCAGAGACAATGGAATAAACAGCCAAG
AATGTTAAAATAGCTATTATAAATATGATCCTTATGCTCATAGAGAAAAGGAAAAATATA
AGTATAATGTGAAAAGAAATGGAAGATATAAAAAGAAATGCAACTTCTAGAGGTGAAAAA
TATGTCTGAAATGAAAACACCATATAGATGGAATTACCAGGAAATTAGACACTGCAGAAG
AAAAAAATCCATGATGTTGAAGTATATTGCAATTAAAACTATCCAAAATGAAACTGAGAG
GGGGAAAAAAGCCCCTGAAATGTATGAAGAAAGCCTCAGTGACCTGTGAGACAATATCAC
AATGGCCTAACATAAGTGTAATTTGGAATTCCAGAAGGGGAGCAGACAGAAAAAAA

Sequence=9073;DNA;Homo sapiens

TACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTTTTTTTGAGATAGTGTGTGACTCTGTCACCAAGGCTGGAGTGCGGTGGCAAGATCA
TAGCTCACTGTAGCCTCCATCTCTGGAGTTCAAGGGATCCTCCCGCCTCATTCTCCGAAG
CTAAATTTTTTTTTTTTTTTTTTTTTAGTAGAGACATGGTTTCACTATGTTGCCCAGGCCA
GGTTTAACCTTTTGACTTGAGCAATTTTTTTTGCTTTAGCCTTCCAAAGTGTTTTGTATA
CCGATACCAGCCCCTTATGCCCGGGCTCTTTCTTTTTTAAAGAAAGGACACTTTAAATCA
CTTTT

Sequence=9074;DNA;Homo sapiens

CGGGGGCGGCCGGGAAAGGCCCAGGAAAGGAAGTCAAGCAGGAGCGTCTGTCCGAACGGA
GGCTAGGTAAGAATATTTCACCATGAAAATGTTAAAAGACATAAAGGAAGGAGCTAAACA
ATATGGACCCAACTCTCCTTATATGAGAACGTTATTAGATTCCATTGCTCGTGGAAATAG
ACTTATTCCTTATGATTGGGAAATTTTACCTAAATCTTCCCTTTCACCCTCTCAGTATCT
ACAGTTTAAAACCTGGTGGATTGATGGAGTACCTCGGCCGCTCTAGAACTAGTGGGATCC
CCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATAC

Sequence=9075;DNA;Homo sapiens

AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTGGAGTGAAACAGGAGTGCTTTATGGTCTGAGTGGAGTGTTTGGGAGG
AGTGCCTCCCGGCTCCTGCCTTGGGGCTCACCTCCCGGGCGGCCGCTCTAGAACTAGGGG
ATCCCCCGGGCTGAAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGGGGGGGG
GCCCGGTCCCCAGCTTTTGTTCCCTTTAGGGAGGGTTAATTGCGCGCTTGGCGTAATCAT
GGTCATAGCTGTTCCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAG
CCGGGAGCATAAAGTGTAAAGCCTGGGGGGCCTAATGGGTGAGCTAACTCACATT

Sequence=9076;DNA;Homo sapiens

GTAATACGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACATC
TTCTCCTAAAAACAAGGGTAGAGCCAATGGAAAGTAATGGTTCTGTTACATAGAATGAGT
TGTCGCCTTGATCTTAAATGATGTATTGGTAGATATACTTCCCAAGTGGATTAAAAAGTT
AAAACTTACAGCATAACAAAGTATTAGACTTACTGAGGTGACTTGAATATCTCCTTTTGA
TTTTCACTCTATTTTTCTTTTCACCCATGGGAAAATGATAATTTTTTAATAAACCAAGGC

TABLE 2

1434/3461

TCTTACCATAGCTGAACTTTAAAACTTAGACTGTCTTTTCTGTAAACGATTCTGAGGCAA
AGGGAAATGACTAGAAGAGGATGAGTAAACAATAACCTGAAATGGGAAACTCGAGGGAAG
CACAGGCTTTTTTTTGTTTTGTTTTGCTTGATTCGTTTTTTGTTCTTTGGGGTTTTTTTG
AGACAGAATTTCGCTCTCG

Sequence=9077;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACAGAGGCCGG
TGGGCTCCCTGACATCCCTTCCAGGCAACCTGAAAGCACTGAAATAGCTTATGGCCCTGT
GCCAGGGACCTTGGCCCAAGCTGCTGACCTCCAGGGTGGGGAGGGAGCTACCCCCAGGAG
AAGAGTCACTCAGACAGCAGTATGAGCAAGCCAGCCAGCAGCTCCGTGCCTGCACCCAGC
TCAGGGGAATCCCAGGGGGTTCAGATGCCCAGGAAGGAAAAGGGGACAGCGCTACTGCTA
TGGAATGAGACCACCACTTCTCCTGTTGTCCTTCCCAGCTTCTCCCCAACCTCCCCTTTT
CCCTAGTTTATAAGACAGGAGAAAAGGGAGAAAGCAAAAAGCTGGAAAGAAACAGAAGTA
AGATAAATAGCTAGACGACCTTGGCGCCACCACCT

Sequence=9078;DNA;Homo sapiens

TACACTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAG
AAAATTAGCAAGAGACATTTTCTGCATTGTGAGAAATCAACATAGACACCTTAAAGACCC
CTTTGAGAGTGTGGCTTTTTGAACTTTTCAGATTTTGCTCAGTGACCTGCTAACACTTAC
GTGAGAGGCTCCAGGTGTAAATAGAATCTAATGGCAGAATCTGTAAGTGTAAACAAGCAT
CTTAGGAGTGAGAGATCAAGACCACAAAATGTCCAGAGCTATGACCACAGCTATACCTAC
CCATAAAATACGATACTGGAGTAGGGTATTTTTGTCTTTTTTTCTTACCTAAGAGCTAGC
TAATCAGGACAGGTGATGCAGGTTCTGGAGCTCTACCAGGGCAGTTCTATTTTCTTTTTT
TGAGACAGAGTCTCACTGTCGCCCTGGGCTGGAGCGCAATGGCACGATCTTGGTGCACTG
CAAGCTCCGCCTCCCGGGTTCATGTCATTCTCCCTC

Sequence=9079;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGGGCAGGTACTTTTTTT
TTTTTTTTTTTTTTTTTCGAATATTTCTTTCAGTGTTCTCAGATTGACTTGACCAGCCTAA
GACAGATGCCAGGGACATCCTCTTCTTTGCCTCTCAACACTTCAGTCAGATGGGAATATG
GAAGGATCATATCCAAGAGGATCATATTTTCTGAAGCCAATCCATAGATGTCAGGAAACG
AACCATTCCAAATATACAGGAGGTAGGGTCACTGCCTCTAAGCCTGAAACTCCAGAGTTA
GAAGCTGAACTTAAAGGTCATTCACCCAACACTTGCCTGCCTCCTACAAAGGACACAGAT
GAGACTGGTGCCCAATCAAGCCACCAGCCTGGAGGG

Sequence=9080;DNA;Homo sapiens

CGCGGTGGCGGCCGAGGTACTGTCCAACCAAAACTTTCCACAAGGGAAAATTTTCCTGGG
TGAGCCTCCCAGAAAAGCCCAGCTTAGTGTAAGCCAAAGACCTCCCAAGTCTGTCACCAA
TTTTTTCCCTATTACTCACCTGATCATGTGGGCAATATCCCAGTTGGTCTCTGTAGACAA
TGGTCCCTCTATTTCAACACCTTTTTCGGTGACAGTGGCGATTTGAAACTGGAAGAAAGC
AGAGCATTCAATAATGCCCACGCCTTAAGTCCTTAAATGAAAGGTCAGGTGGAGGTCTTC
CCCAATGTGAAAATAGGAGTCACACAAGTAAGGCAATCTGTTCTTCAAAGCATAGGCT

Sequence=9081;DNA;Homo sapiens

GCGAATTTGTCCTCCACCGCGGTGGCGGCCGAGGTACTATAATCTCCTTCTCCACTGGCA
AACAGATTATACCAGAAAACAGCAGTTCCCTATGGAGAACAATTCACAATTATCCCCAAG
TATACAATGCCAGGTAATTGCTTTCGGTAGTTATTACTTTTTTTTTTTTTGAGACAGAGTC
TTGCTCTATCGCCCAGGCTGGAGTGCAATGGCTCGATCTCAGCTCACTGCAACCTCCACC
TCCCAGGTCGAAGTGATTCTCCT

Sequence=9082;DNA;Homo sapiens

ACTGAAGGACGNCCCCANCGCTGGAGGATGACGGGCCCCGNGGNGGNGGNNCGGGGCANC
CCTGGGAAGAACAGGAACCGGCCCCCCCCNANGAGAAGGGGACANGAGANGCCTCACACA
CAAGGGGGNANNNACCCAAAAACCGGGCGCAGNGGNNNACACNGGNNANNNNAGNACNNG
GGGAGGGCGAGGTTGTTAAAAAACATGTGTGGGAGGGGGGGGGGCCCGAAAAAAACAGN
GAAACCNGGNNNAAACNAACCCCACAAAGGGGGGCNGGGNGNGGAGGAGGGAGCCAGCAA
CCCCAGCCACNAGGGAGGCGGAGGCAGGAGAAAAGCNAGAACCCAGGAGGCGGAGGGGGA
AGAGAACNGAGANCNCGCCACGGGACACCAGCCGGGGGAACAGAGCAACNCA

Sequence=9083;DNA;Homo sapiens

TCACTATAGGGCTAATTGGAGCTACACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGG
TGCCGCGGGGCTTGCTGGGAAGAGAGGCGAAGCCAGGTCACCTTTCAAGGACCCAGAAGT

TABLE 2

1435/3461

AGGGTTTTGGCCTAGGTACGGGCAGAGATGGGTCGAGATTTCCCGGCTCTCGCTGGCGTG
GCTGTGATTCAGGACTGGCTACTGTTACCTCGGCCGCTCTAGAACTAGTGGATCCCCCGG
GCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCCGGTAC
CCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGCTTGGCGTAATCATGGTCATAGC
TGTTTCCTGTGTGAAATTGTTATCCGCTCAC

Sequence=9084;DNA;Homo sapiens

TACTATAGGGCTAATTGGAGCTCCACGCGGTGGCGGCCGAGGTACTACCCTCTGCTTTTG
CAAGGACTCTACTGTGTCATCTTAAGTGAGACATGTGCATATGTATACTAGTAAAATTCT
CTGCTTTCCTAGCATTGGACAAAAACAAAAATCAACAAAAGAATTGCCTCAGTGTCTTAA
ACTGGGATCCTTACTAGTTGACTAGGCACTTAGTTACTGAAGGATATGTGTGGAATTCAA
GTTCTTTTCAACCTATAAGAAATATCGGCCAGGTGCAGTGGCTCACGCCTGTAATCCCAG
CACTTTGGGAGGCCGAGGCAGGAGGATCACAAGGTCAGGATTTCAAGACCAGCCTGGCCA
ACATAGTGAAATCCTGGCTCTACTAAAAATACAAAAAAA

Sequence=9085;DNA;Homo sapiens

TCACTATAGGGCTGATTGGAGCTCCACGCGGTGGCCGGCCGCCCGGGCAGGTACTATTAC
TAGGTTCATTGTTTCCAGAGGGGTGAAACGGGGCTTTGGAGAGGTTAAATAACTTGCCCA
GGGTCACACAGCTATTAAGTGGTAAAGCTGGGATTTACATGAGCCCAGACAAAGAACCCA
AGAAGCTAAGCTATTCTCTTGTAATACCTCCAACATAGGAGGCAAGAAGTGAGGTATTAT
ACAGGTTGAGGAGATAAAGGGGAGAGAGGTCTGCAGTGCTAACAGGAGGAGCTGGGATTC
ATTCTGGCCTGTTCTGTTTAGATCATATAGTTTTAGTTATACCCATGAGGTTTCCTACTC
AAAATGGGGCT

Sequence=9086;DNA;Homo sapiens

ACTCACTTAGGGCTTATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGG
CATCAGCTCCGTGGGAACTCACGAGCCTGGGGAGAGTTCGTCATCCCCACATGGAACCTC
AGTATGGCCAACAGGCAGCCCTCTGGTGGAAAAATCAACAATCAGTCCTGCAGCAACTGA
TGGAACGCTAGTGACCACCATAAAGATGTTAAGCCAGGCAGCACAAGGAAAT

Sequence=9087;DNA;Homo sapiens

ACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACTACTGCTGAGGTCTCC
AGGACAGAAGTCACCTCCTCTGGTAGAACATCCATCCCTGGCCCTTCTCAGTCCACAGTT
TTGCCAGAAATATCCACAAGAACAATGACAAGGCTCTTTGCCTCGCCCACCATGACAGAA
TCAGCAGAAATGACCATCCCCACTCAAACAGGTCCTTCTGGGTCTACCTCACAGGATACC
CTTACCTTGGACACACCCACCACAAAGTCCCAGGCAAAGACTCATTCAACTTTGGCTCAG
AGATTTCCACACTCAGAGATGACCACTCTCATGAGCAGAGGTCCTGGAGATATGTCATGG
CAAAGCTCTCCCTCTCTG

Sequence=9088;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAG
TTGGACCTGCTGGCATTCGAGGCCCTCAGGGTCACCAAGGCCCTGCTGGCCCCCCTGGTC
CCCCTGGCCCTTCTGGATCTCCAGGTGTAAGCGGTGGTGGTTATGACTTTGGTTACGATG
GAGACTTTTACAGGGCTGACCAGTCTCGCTTATCACCTTCTCTCAGACCTATGGACTATG
AAGTTGATGCTACTCTGAAGTTTTTGAACAACC

Sequence=9089;DNA;Homo sapiens

CTACTATAGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTGTAGA
TTGAGATATAACAAAAAGATGATTTCTGAAATAATATTGGGAAAAGAATTTACCGGATGG
TATTTTGTATCTTTGCACACCTCTGTTGTTATGATGCTATAAGGCAATCTTGTCCAACCA
GCAGCTCACAGGCCACATGCCACCCAAGATGGCTTTGAATAGGGCCCTATACAAATTCGT
AAACTTTCTTAAAACATTATGAAATTTTTTTTTTTTTTTTTTTACAATAAGGCTCTTGAAA
ATTGTCATTACTTGTGTTTTCCTATACATTCATCTGTGTGAAAGCCTTTTTCTTCTTTGA
TTTAAAAAAATTAACTATACAGTTAATGGTTTAGAACTTAGAACTACT

Sequence=9090;DNA;Homo sapiens

CTCACTATAGGGCTGAATTGGAGCTCCACCGCGGTGGCGGCCGAGGTACACTCAAAGGCT
ATGTTCTCTCTCAGGACTCAAGATGAATTACTGGCAGAATTCCTCACTACATCCTTTAAT
GGAAACCTCTGTCGGTCCTCATCATCAGTGCTTTCATATTCTGATTCTTCACTAGATAAT
TCCTCATCCTCGTCTGGCAAAGGAGGTTCCTCAGGTGGCTGAGGAGATGTGGGTGGAAGA
GGTGCATGCAATGGCATATAGTCTTCATACATGGGAGGTCGCGCAGTAATTGGTCCAAAA
GGTGTGGGCAAATTCATTTTATTCATAATATGAAGGACCTGTACCTGCCCGGGCGGCCGC

TABLE 2

1436/3461

TCTAGAACTAGTGGATCCCCCGG
Sequence=9091;DNA;Homo sapiens
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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

1441/3461

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Sequence=9130;DNA;Homo sapiens
TGGAGCTACACCGCGGTGGCGGCCGCCCGGGCAGGTACGTTCTTTTGGCTTTTCCTTTCG
GTAAGATGGTCTTCAGAGCTCCTTAAACACATTTAGAAAAA
Sequence=9131;DNA;Homo sapiens
GCGGCGGCGGCCGAGGTACAGAGAAGCCATCACCTCAGAGGGCAGCTAAAACAAGATGCC
TTTTTTTTCTCTCAACACCATGATTCCTTTAACAACATGTCTCCAGCATTCCCAGGTAGG
CCAAGGAGTCCTACAGAAAAACCTTGGGTTAGACCTACAGGGGGTCTGGCTGGTGTTAAC
AGAAGGGATTCTTTTTTTTGGGGCGGCAGGCCACGGAGAAAGCTGACTAGGCTG
Sequence=9132;DNA;Homo sapiens
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GANGAGGAGGGTTCCNGCCCCCAGGGGAACACCCCCCAAACACAGCNCGGCCNCGGNCGG
GACCAGNGCCAGGNGGACAGCCAGNGNCCNGGCCAGANGAAAGGCNGCCGCTTTTTCTTT
TTTGGGGGGGNCCGGCGGGGNCCCCCCCAAAAAAAACCAGNCACCACCAGGCGGAGCAGG
GAGGAGAGAAAGNNTCNGCCNGGCCCNGCANCNGGNNCCAGCCCACCNGCCCNCCCCGNG
ANCGGGACCCNGGANNCCCNCNGGGGCGGACCACAGCNNCCCCCNANCCCAACCAANAAA
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TABLE 2

1442/3461

Sequence=9133;DNA;Homo sapiens
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TCTTTCCCGTAATCTGTCCCCTCTTACGGAACCTAGTCTCCGTTCTGTCCATGGCCTTTT
TCTGGACACTGCTAGG
Sequence=9134;DNA;Homo sapiens
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TACTGTTCCTGTTGGCCGAGTGGAGACTGGTGTTCTAAACCCGGTTGGTGGTCACCTTTG
CTCAGTCAACGTACAACGGAAGTAAATCTGCGAATGCACCA
Sequence=9135;DNA;Homo sapiens
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GGTTTCCCCCAAAGGTTATCTTCCTGCTTTCCTCTGTAAATAGGGCAGTTGCTGCAACAG
ATTAAATACACTCGGGCCACCTGTGGGTTAGTGGGTCAAGAATTTTTGACAGAAAGGCTA
TAGGCTGCCGGTGGCCCCCGTGTGTTTGGGTGAGCACCCCTAGAGCTATCCCTTTATTCA
CATTGACGAAGAGGTGGAATGGCTGTTCTAGGGAAGGTAGAACTAAGGCAGTTATGAGCA
GGTGTTTTAATTCCTCTACTTGTTGGACCTCCCGTGGTGTCCAAAGAAGAGGATCAGGTC
TCTCTTGAGTAAGTT
Sequence=9136;DNA;Homo sapiens
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GGGGGGCCCGGGACCCA
Sequence=9137;DNA;Homo sapiens
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AAAATAAGGCTGGGAGCAGTGGCTTATACCTGTAATCCCAGCACTTTGGGAGGCTGAGGC
GGGAGAATCACCTGAGGTCAAGAGTTTAAGACCAGCC
Sequence=9138;DNA;Homo sapiens
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GGGTGACAGAGGGAAGACTCTGTCTTAAAAAGAAAAAAAAATCAATAGAAATCGGTTTTT
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GGGATATTTGAAATATCTGGAGGCATTTTTGTTTGCCCCATCTTTGGGTATCATATTGGC
ATCTAGTAGGTAGAGGCCAGGGTTGTTGCTAAGCACCCTATAATCCACAGGACAGCACCC
AAAAACAGTTACCCAGCCCAAAATGTCAGTATTGTCAAGGTTGAGAAGCCTTAATTTAGA
TGTAATGTTAAGAGTTCAGTAAATTGGCCAGGCACGGTGGCTCACGCCTGTAATCTCCTA
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Sequence=9139;DNA;Homo sapiens
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GCTTCTTGTGAGACAGATCAGTCCAGCCAGATACAGAGCAAAGCAGCTTTGCATCACCGC
GGGCCAGTTGCTGATGCCCAGCTTTATGTCTAAAAAAAAAAAGTGGAAGCCTCAAGGGGG
ATGGAGGATAGCAAGAAGAATGGGTGCCTTGGCCCCAGAGGCATTGTAGGGAGAGGAAGA
CAATGTATCTCATCAGGGTTCTCAACATTATGAGATTATCACACATCAACTATCTTTGGA
GGGGCTGAGTGATTGAGTTATGGCTCTGACTCCTCTCTGGGGGTGGAGAGTGAAGATGAC
AAAGAAGGCCATCTGTCCCCTAGGAGACACAGTTGCAGTATAAGACAGGACAGAAGAGAA
CAGAAAAACAAATCCAACTGGAAAAAGGGG
Sequence=9140;DNA;Homo sapiens
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CGTCACAACCACCACTGCAGGCTTCTGATGCTCTGTTTTCCTCCTCTGTCTCAGTTCAGT
TGCTCTGAGTTAGAGAGGAGCTCTCTGGGACTGGAGCAAATGACTGCACCGGCCCTCATG
GGACTTCCATTTCAGTGGATTCAGGGGAAAGCAGCACGTGTTTTTGAGAGACCTTGGCAA
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CCGGTCAAAAAAA

TABLE 2
1443/3461

Sequence=9141;DNA;Homo sapiens
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CACTGACCAATCTGTTGGCACAGTAACTGTTTATAAGCTAAATTTCTACATTTTGGCTAC
AAGTATCCCAAATTCACCTTTTAAAAAATCCTATGTAGATGCCATCTGGTGTTAATGATT
TGCACACCCCTTAAATTGAAAATATTTTAAATAAATCTCACGGTTTTATATAGAATGATT
AATGTGTATATTTTAAAAAGACAATCTGAGAATAAACACTTCCCCTAATTGTTGTCTTAA
TAATGACCAAGAGCTGAAGAAAAATGATTCACAC
Sequence=9142;DNA;Homo sapiens
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CCCCTTCCTGGTGCTGCTTGCCCTGGGAACTCTGGCACCTTGGGCTGGGGAAGGCTCTGG
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GAAACCTG
Sequence=9143;DNA;Homo sapiens
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GAACCTGGGAGGCAGAGATTGCACCACTGCACTCCAGCCTGGGTGACAGAGAGACACTCC
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TATACAAACACATTTTAGATTAGCATTTGAATTAGTAAACTGCATAAAAAAGATCCAACA
TGAGCTGACATCATCCAATCCATTGAGGGCCCAAATAGAGCAAAAAGGCAGAGGAAGAGC
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TGGTTCTCAAACATTCGGATTCTGGGACTTACACCTCCAGC
Sequence=9144;DNA;Homo sapiens
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TTCTTTCAACAGACAGTCTTTTCTTAGCATCTTCATTTTTCTTTATTTTGTTGACTTGCA
TATTTTCATTTACAGGCTGCAATGGTGACACTTCCATGGTGACGGTCGTGAAGGGGCTCA
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CCCCCGGGCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGC
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Sequence=9145;DNA;Homo sapiens
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GCCCCCCCTAAACCGCGGGGGGAGTATTTCCAATTTTCAAACCCCCCGGGGGGGAAAAAA
AGGGA
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CACATTGTTGTTTTTTTAATAGTCATTCCAAATATGAGATGCATTGTTACAGGAAGTCCC
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Sequence=9147;DNA;Homo sapiens
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GACTCTTTTTTTAAAGCCCCGGGAGGATTTCCTTGCCCAGCTCCCAAGAATGTTTGCCCTT
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CCGTTTTA
Sequence=9148;DNA;Homo sapiens

TABLE 2
1444/3461

CTATAGGGCGATTTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAAAGATTCC
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GCACTTTGGAAGGCTGAGGCGGGTGAATCACCTGAGATCAGGAGTTCGAGACCAGCCTGG
CCAACATGGCAAAACCCTGTCTCTACTAAAAACACAAAAATTTGCCGGGCATGGTGGCAG
ATGCCTGTAATCCCAGCTACTTGAGAGGCCAAGGCAGGAGAATCGCTCGAACCTGGGAGG
C

Sequence=9149;DNA;Homo sapiens
TCACTACTCTAAGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGGGCAGGTACTTTCTTT
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ATCTCAGCTCACTGCAACCTCCGCCTCCTGGGTTCAAGTGATTCTCCTGCCTCATCCTTC
CTAGTAGCTGGGATTACAGGTGCCCACCACCACACCCAGCTAATTTTTGTATTTTTAGTA

Sequence=9150;DNA;Homo sapiens
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ATAAAGGGAAACACAGCAGCAGACCAAAGAAAACAAAAGGAGGGCAAACCCAACCCCCAG
CCCGGAAAGACCGAANAAAACCAACAAGAAAAACGGCCCACAGCAGGGGCGCCAACAGCG
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AACCCCCGGGCCGGGGGCCATCCGGCGGCACCCCGAGACCAGANCAAGAGAGCGGGAAAA
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GGAACCCCC

Sequence=9151;DNA;Homo sapiens
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ACACAAATTTATGTAATATAAGTTTTACATGACATGGGAGCCTTTATAAGGAAATGACCC
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Sequence=9152;DNA;Homo sapiens
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GT

Sequence=9153;DNA;Homo sapiens
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CTCAGGCCCCACATTCTCAGCTGTTTGGATCTGGGGACTCGAAGTTTCTGGTGGTTACTT
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AGTGGTGCGATCTCAGCTCACTACAACCTCTGCCTTCTGGGCTTAAGTGATCCTCCTGCC
TCAGCCTCCCAAGTAGCTGGGACTACAGGCATGAGCCACCATGCATGGCTAATTTTTGTA
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TABLE 2

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Sequence=9155;DNA;Homo sapiens
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GAGTAGCTGGGACTGCAGACCTGCACCACCACGTCCAGCTGCCCGGTTAATTTTTTTCTG
TCGGTTTGAAGAGGGGAGAAGGTCTCACTATGTTGCCCAGGCTTGTCTCAAACTCCCGGG
CTCAAGCAATCCTCCCACTGTGGCGTCCCAAAGTGCTGGGGTTACAGGTGTGAGCCACCA
CACACTGGGCTCTGCTCTGCCTTTCTGAGTTTGGTTTCTGCTTATGGAGGGGAGCTTGTT
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AATTGGCTACGCCTCCCA
Sequence=9156;DNA;Homo sapiens
AGGGCGAATTGGAGCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACAACTGGAAACAGC
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GTGGCCCCCCACCTGAGTCAATGCCCAAGATGCCCCCTAGAACACCAGCGGAAGCCTCCT
CCACTGGGCAGACAGGCCCTCAGAGTGCTCTGTAGGAGCTGTAGACTGGGAAGAGAGGCC
AGGCGTGGTGGCTCACTCCTGTAATCCCAGCACTTTGGGAAAGCCAAGGTGGGCCTGAAT
CACTTTGATCCCAAGGAGGTTTGAGACCAGCCTTGGGCACCAATGGTGAAAACCTCGTCT
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TTGGGGA
Sequence=9157;DNA;Homo sapiens
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CCCACCGTGCCCCACCCTGACAGCACCAAGTTTGTTTCCAGGCAGTGAGTGAGCAGGGCT
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Sequence=9161;DNA;Homo sapiens
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TABLE 2
1446/3461

CTGCCTGAGCTGCAAATAGATTAGGCTGCTCCCTTTTATGTGTGCAAAGACATTACCCAA
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CCAGGGTCCTGTGTGCACAGAGGGACAACCATGTGAAGAGGCAGCAAGAGGCCAACTGCA
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TTGTTCTAGTGGCCCTAGCAAACTAATACACTCATATATGTTGAAAAAC
Sequence=9163;DNA;Homo sapiens
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TCTTTGGGCCCCTTACTCAGTATCCTGGGAACCCTGGGCCAGGAAGTTACAGTGGTCAAT
CATAATTGCTGAA
Sequence=9164;DNA;Homo sapiens
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Sequence=9166;DNA;Homo sapiens
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Sequence=9167;DNA;Homo sapiens
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Sequence=9168;DNA;Homo sapiens
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Sequence=9169;DNA;Homo sapiens
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TABLE 2
1447/3461

AAAAGGGAATTTCCCAACCCCGGGTGAGGCAATGCCCCGCCCTGCTCCGTGGGCTGCACC
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Sequence=9170;DNA;Homo sapiens
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Sequence=9171;DNA;Homo sapiens
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Sequence=9172;DNA;Homo sapiens
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Sequence=9174;DNA;Homo sapiens
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TABLE 2

1448/3461

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Sequence=9177;DNA;Homo sapiens

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Sequence=9178;DNA;Homo sapiens

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TABLE 2
1449/3461

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TABLE 2
1450/3461

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TABLE 2
1451/3461

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TABLE 2
1452/3461

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GAGTCACACTCATTATGACCTGGGAGGCAGATGTCTAGCCTTCAGCTAATTATGATGGGC
AGTATGGAGGAGAGTGTGAGTCAAACCTTCCATGGAGGAAAAGGAGTGAACACTCAGGGA
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TABLE 2

1453/3461

TCTCAAAAGTTATTTCTATCAGTCTTAAGTAATAGATGAATTTCTTTTTGCCACTGCAAA
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Sequence=9205;DNA;Homo sapiens
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CTGGGTGCATTTGACCAGTTTTGCCCCCATCTGTAAATATCCCTCAGTCCCCATGGAGCT
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CACCTGAATAAAGGTGGCATCTGTGATTACTGTGGGCGAGGGTGAGAGGGAAGAGGATAC
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Sequence=9206;DNA;Homo sapiens
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TABLE 2

1454/3461

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Sequence=9215;DNA;Homo sapiens

TABLE 2

1455/3461

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Sequence=9216;DNA;Homo sapiens

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Sequence=9217;DNA;Homo sapiens

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TABLE 2

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Sequence=9222;DNA;Homo sapiens
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TABLE 2

1457/3461

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Sequence=9227;DNA;Homo sapiens
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TABLE 2

1458/3461

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Sequence=9233;DNA;Homo sapiens

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Sequence=9234;DNA;Homo sapiens

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CCACCTGATTATCCTCAAACTATGACCAGTGAAATGAAAAAAAAAGGAGTGAGGTCAAGT
TTTTATATTTCTTGTTTGAAA

Sequence=9235;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA
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AGTTAAGGCCTTAAACTTGGCTCAAAATAAATTTAACTGTGATTTCTCTAATTTTTAGTG
CCTACTGTTTCACCAGACACCTAGAGTCAATAGTGTCCTAGAATCTACGGTGTCCAGGGC
TTGAGCAAGATACTTTAGTGAATATAAACACTAACGAGACCTTGCCTTTTCTCAAGCCTA
CAGGATATCAGCCTATTTGAAAAGTGACACTGGCTTTACACCCAGAAGCCCACAAAATAG
AATGATGTAACTGAATTTTTTGGTAGCTCTCTGGGTAATTTATGTGGTGTTAGACTCTTG
GGTTTGAAAGAAAGAGACTCGTGATCCCATTCTGGCATGACAGAAACTTTATTGGAAGAT
G

Sequence=9236;DNA;Homo sapiens

TGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC
CCTTAGCGTGGTCGCGGCCGAGGTACAAATTATAATACACATACCAGACAAATTTTATTA
AATAATAAAGAAGGGAGAGAGAAAGAGCAAGACACTTTTTTAAGCACCATGTGCCAGGCC
AGTGCTTGAATCTCTTCCTACGTTACTTCTCCTTATTATTTAACCGTTATTTAAATGTTA
CTACTCCCATTTTACAGATGGAGAAATTTAGCTTAAGGTAATGACAAGATTGAACTTCAA
GTTTTCTGACTCCAAAATATGCCCTCTTTCGACCACACCGTATTATCTCTAAATATGGAA
AACATTTCAAAAGTAGCAAGCGTCTTCAGAACAAAAACAAAAACAATCCAAGGGGCTTAC
ACATTATAAACATGGTTTCGGGGTCATATGCACA

Sequence=9237;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT
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TGACTAAGGAGCCATAAGACTCTGGGTGCAAATAATTGAAAAAAATATTTTAGAAGCATA
ATATCAATTCATCTAGTTTTAAAGTTTTCACAAATTATAATAGGGAATTCTGCTTATTTC
ACAAAATAATTATCTGACCTTAAGAGGATTTTTCCTAACATCACATAAACCTGATGGCTT
TACACAGTGATGATGAGCTATTATTTCATTTTCATCCTGATAAACTACATAAGAATTGCA
ATTTTTATATGCAATTATTCATAATGTATGTTTGGATTTCCCTGTTTAAATTCTATTAGA
GTCCTACTTTATGAAAAATCTATCATTTAATATTCTATTTAATACTGAGATGAACATACA
TAAAAGCAAACAGATGAAGAAGATGAGTAATATCTCAGGATCTGTAGCCATCAGACTATG
AGCAAATCATAATATATTATTATAAGTCCCTTCTGTTACAGTCAGATATTTCAGAAAAAT

TABLE 2

1459/3461

AACAATAATGTATTAAAAACGGAACTTCTCTGGTCTTTAAATAGCACAAGTAATTCAACT
GATAAATCTAGATAATACTTATAGCTCTCTATACCTATGGTTTGGTTTTGCCTTTTCTAA
ATTAAACTGGATTTTCAAACTATT

Sequence=9238;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAAATTGCAAGGGCAAACTTTG
TGTCTTACCACTATGATGGGAGAAGAGTTAAATAAACAACATAACAACAAACTAACTTAT
ATACTCTGGTGAACACCTCGATTTCATTGATAAAAGGATTATACATTTATTTTCAAGAAC
TGATTACACTTTTACAAAGTTGACCATATATTAGTTAATAAAGCAAATCTGAGAACATAT
TAAAACAATTATCATATAAACTACATTCTTTGATCAGAATGAAATTAAATTAGAACTCAG
TATAAATAAAGAACACCAAATAATGTGCAAGTCTGGAAACATCCTTCAAAGTAACCTATA
GGTCCACCTGCTTGGAAATAAACCAAACAAATGTTATGTTCCTGCCCGGGCGGCCGCTCG
AAGGGCGAATTCCAGCCCACTGGCG

Sequence=9239;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCATAGGAAGGAAGCTGT
CCAAGCCCTCCATTGCTCTTTGAGCTCATCATGTGATTATAGGGAAGGGGAAAGGGAATG
ATTTCCTCAGAAAAATATACTGATCACCATATATTCTTTCGGGATGCTAAACAAGTATCC
AGAAAAACATTTACATGTAATACATCTACAAATCCTCTTTTTCCAGTAATGCTTATGTCCT
GTCATCTGAGATATAAAATTCTTTCTGGGTTACTAATTTCTTAATTTGGCCAATTTATTT
AAGATGCTCTTCAAAGTTTTAAATTAATTGACTA

Sequence=9240;DNA;Homo sapiens

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AAAAATTTACTAAGGTTTGCTTTGTGGCTTAAGATATGGTTAATTTTTATGAATGTTCTC
TCTGTCACACTATTATTTAGCATTGTTAAATATCTAATGTCAATTAGCTGAGAAAGAGAA
ATGAGGCAAACAAATTAGAAAGGAGAAGGTAACATTATTACTATCAGATGTTATAAAAGA
ACCAACAGGACAATCTATATAAACATCCCCGCGTACCTGCCCGGGCGGCCGAAGGGCGAA
TTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAAT
CATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATAC
GAGCCGGAAGCATAAAGTGTTAAGCCTGGGGTGCCTAATGAGTGAACTAACTCACATAAA
TTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGG

Sequence=9241;DNA;Homo sapiens

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GAATTCGCCCTTTTTGTGGTCGCGGCCGAGGTACAGTCCACAAAATGGTTTGCTTCTGAA
AAAGCAGTAGTAGTCTTACATCCAAGATTATTCCTAAAATAAAGTTTCGACCCACATATA
TAATGAAATTGAAACTGCCTACATTGGCAAAGCCAGAAAGAGAGTAAAAAAGATGGGGTA
GGCCAGTTGCGGTGGCTCATGCCTGTAATCCCAGTACCTGCCCGGGCGGCCGCTCGAAAG
GGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGG
CGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACA
ACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGG

Sequence=9242;DNA;Homo sapiens

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ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTAATGTTTCT
TATACTTGTTTCTTCAGAATTTAATTAGTTTTAAAGGAATTTTTCTCATTATAAAATACA
TAAACTCTCAAATTCTTTTTGTTTTGTTTTGTTTTTTTTGATGTAAGTTCTCGCTCTGTCA
CCCAGCCTGGAGGTTGCAGTGAGCCGAGATCACACTACTGCACTCCAGCCTGGTGACAGA
GCGAGACTCCATCACATAAAACCAAAAGGGACCAAAAAGAACTTGATTCTTATCTTTGAT
TGCCTAGNACACCCTGACCCTTCACCCTTTA

Sequence=9243;DNA;Homo sapiens

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CTGCAGAATTCGCCCTTAGCTTAGCGTGGGCCCGGGCGAAGTACATTTACAGAAAGGCCA
CTGCAGCTGCATCATAGTTCTATAACTCTTCAAAGTCCCCAGGCACCCTAAGTAGATAGC
TTGAAGCTTCACCTTTACAAAGTCCAATCCATTGCATCAAAAGCCTACATTATCCCATTT
CCTGTGGCCTAGAGATTACAAATCACCTGAAGTAATACCAAAACCCAGTGAGTAAAGACG

TABLE 2

1460/3461

GAAGTAAATCTAGTGAGTTTTCAACCACCCACCGCCCCCGAGATCTTAAAGGAAGCAGTA
ACAAGCCACTAGAACTCACATGAGAATTTATAGGCCAAGAGATTTTAATGTAAGCATTCT
TATAATTAAATACCTCTTACAAAAAATGCCATTTAATCAGACAAGGGGAAAAAAGTAGCA
TCAAAAGAAATGCTGACA

Sequence=9244;DNA;Homo sapiens

TGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGG
CCGAGGTACCAGCCAGTTTTGAGATATACCTGGTTTGCTTTAATGTTATTAAATTGCTTT
GGTGAGTTTTGCAAATGGACAATTGAACTTTGTTCTGCCAAATTCTTTTTTATTGCATTT
AAACTTCAGGGTTTTTTATTTCCGGCTTATTATGAATGGATTAGTCATTTTGTGAATAAC
TCTTCATTGAGTTTAGGGAGAAATAGGACGTTAGATCCGAAGATGCTATTTGTTTAATCA
CCAGAATGGACAAAATTATACTTCATTTACTATCAGGGAGGCATGGGGAGAATAGAGGCC
TAGGGGTGCGTCTTGTGGCTCTTACTGTTTTTGTGTATCTGGTTTTTTTTTTTTTTTTTG
AGAGGGCTTCCCATTATGTTGCCCGTGCTGGACCCCAACTCCTGATTTACTGGCTCTAGA
GATCTTCTCGCCTCAGTCTCCCAAGGACCTGGGAC

Sequence=9245;DNA;Homo sapiens

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ATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCAAGTCTGCATGGCAAAAAAGG
TGTCCACAAGTGTGAATGGCTCATTTTTAATGACAGCCAACAGCCACTTGTAAAAGATGT
AATTGAAATTGTTCAGAGATTAGGTTCCGTCTGCTTTGTCCTCCTTCTCAAAAGTTTTCA
TGGATCCAAGCTATTCTTAAGCATTGTTTAATACTAGAAATAGCCTTTATGGACTAATAA
TAAGAAAGAAAAAGGCAAATTTTAAAAGATATTCCAAATTCAAAGAAAATAAGTTTGGCA
GCCTGACTTTTGATTATCTGTAAAAATCAAGGCCAATAGTTTGAACGGAAGAGTAAATAT
GAAGGTTTTCTAAACAGTTTTTTCTGGAAGAGAGGGTTGGAGGTGAGAAGTTCTCCTTTT
TTCAGCAGCAGTGCCTACAAAAAACATAAATGGTGTTTCTGTGAACCTCAAAAAGTAAA

Sequence=9246;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAAACTCTGATTCCCAGAG
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AAAGGGGAAACTTGTTATTTTAAGTCACTAATAAAAACCTAGCTCAATCTAATATACTAG
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GGTTAAGGGAAAGGAAAAGAGAAAGAGGTGCTGAGAAAAAAAACAAGGGGAGTTTGAACT
GAAAGTTAAAGAGCTCATTAAAATTTTGACAGATCATCCATCTTTTCATCTGAACTCCGT
ATCTATAAATCCTGATT

Sequence=9247;DNA;Homo sapiens

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AACATTACATATTAATTCAACAGGACATCTCCTATATGCCAGGTAGTGTTCTAAGTGCTG
AGTGAGTTATAACTGTAACAAAACATGCCTGCCACTTAAGAAACTTACAGGGTAATGAGT
TAAAATGAACACATAAATAAGGTAACCTGGGATAATGGGAAATGCTAGGAGGAAAATAAA
TGGGAGGCTGGGCGG

Sequence=9248;DNA;Homo sapiens

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CAGAATTCGCCCTTTGGCCGCCCGGGCAGGTACTGAAACATCAAAACACCAGAATGAACA
TCAGGAGGGAAACATGAAAGTAGCCACTCCAAGTAAGGCTCCAGAACATACTCAAATGAA
GGAACCAGGGCTTTACTGCGTGACCTAGATCAACAACAGAGCTGTTCTCCTTCTTTCAGC
TAATCAGGAGCATTTAGTTGGGATTGGGAAAGAGGCAAAATATACATAGAGGTAGAAAAT
GAAGATTTATATGGATAACTTCACAGCTGTTTTCCTGTGAACCACATTTCTAGCAATAAA
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Sequence=9249;DNA;Homo sapiens

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CAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGTGTTGTTTGAATGGTATTT
TGAAAGCAATTGCATAGTTACTATTGATTCCTCAAAATGCATAATGGGGATGCTTCTGAC
CGACTTGCCTTTTAGCAAGTTGAAGGTAGGTATGCACGACAGGGCTCTGACTTCACCAGA
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TABLE 2
1461/3461

ATGACGGCTTTCTGGAAAAATGTTGGAATTGAAAGAAAATGTGGAAAGAGAGTTGAGTGG
AAGAAAGACTAATAGAGTAGGAGTATTAGTTNTATGAGAATGTGAGTAAATCTAATATTG
GATAAATGAATCTAAGGCTACTAATACTACATTTTTGCAACTTACATTTTTGAGTATTTG
GGTAGTAAAATACTCCGATAAAAACTTTTAGAGTGGTCACCTCTCAGTCACATATTTTGT
GGTTTATACTACATATACTTGGTTT
Sequence=9250;DNA;Homo sapiens
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GGTGTTCCATGAGCTGAGCCAGCAGACCCATGGCATCACCCGGCTGGGCCCCTACTCTCT
GGACAAAGACAGCCTCTACCTTAACGGATGGACTCCGTGTTGGTCACTGTCAAGGCATTG
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Sequence=9251;DNA;Homo sapiens
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Sequence=9252;DNA;Homo sapiens
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TAGATACCATAAACTGAAATTGTCTTTGATCTTTGATTAATTAATCTCACAATCGCTTGC
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CTGCTATGCAGATAAGGAATACATATTCTTGTGGATTCAACCCAGATCTGACTTGAGGCT
AAACTCCTAACCATTCTATCACTACCCTTACCATTTACTCCAT
Sequence=9253;DNA;Homo sapiens
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TATTCAAGTCATAGATACCGGCCTTTATCCCCAAAGAGTCAATTCTATTGTTCTTTCTTT
CATATAGATGAGAGTCAGAGAAACAAAGTAAGGTTTGGGAGAAATGGACATGGTATAGTT
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AAAGTCTACACATTTATAGTAATAAATAATTATCCAGCTAATTCAGATAAAAATTTGTTT
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AAATATCCAGATAATTTGGATCCCCTTCCTCCAGTTTACCCAAAGGAACAAGTTGTTTCA
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ACATAT
Sequence=9254;DNA;Homo sapiens
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TCTTCCCAGTGCTCTGATTGTCAAAATTTGAATAAAGCTCAGTGAAAGGAGGACAGTAAT
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GAGAGGTCACTGTCTTTTCACTATGGATTCATCATAAACAGTATCAT
Sequence=9255;DNA;Homo sapiens
GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC
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GAGAGAAGGAAAAGAAAAACCTATGTAGATCTAGAGGAATTACCTAAGAATTCCTAATTA

TABLE 2

1462/3461

CATAGGATTAGCTCTGGGCTAACATCAAATTTTAAGTAATTACTAAAATAATTTCTTTTC
TTTCTTTTTTTTTTGAGACAGAGTCTCATTTTGTCACCAAGGCTAGAGTGTAGTGGCTTG
ATCTCAGCTCAACTGCAACCTCCACCTCCCGGGTTCAGGTGATTCTCCTGTCTCCAAGTA
GCTGGGATTACAGGCATGCACCACCACCTCCAGCTTCTTTTTTTATTTTTAGTAGAGATG
GGGTTTCACTATGTCGGCCAGGCTGGTCTCCAACTCCTTTTCTTAAGGTGATCACCCGCC
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TTCTAATCTG

Sequence=9256;DNA;Homo sapiens
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TGCAGAATTCGCCCTTTAGCGGCCGCCCGGGCAGGTACAGTTCTGCTCAGAATGCCCTAT
CTNCTNACTGAAACTAAGATAGGTTACATGNCCTATTTTGGGAGAACTAATTTTGCAATT
CCTGCCAATTTTTATGCATTTTGCCCTTGTTTCCATAATTCAGCACCTCCATCATCTCTT
CATCACCTCCATCAAGATACTTTCACTTCCTTTTAAAAGCAAAGATCTCTATTTAATGTA
ATGCTTCTCAGTTTATTATTTACATTTTTATTTTTTCACCATGCTATCATTTTTACTGGG
ATTGTCACTGCTTTGGTTAATGCTCTGGTTACAAAGTGGCATTGCTGTGGGGCAGTCAGC
TGTAACCCTACTTCTTCCCATAAGCTCTCTGAT

Sequence=9257;DNA;Homo sapiens
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TACAAAGTGCACTTAGACCATGATATTCTTTCATGATGGCAGACAAATGAGGAGTTTCTT
TTCATTATCTAATGAAAAAAGAGTTGGTCTATATTTTCTCAGTGTATTCCTATAGGGAAG
AGAGTCTTATTGTTGATAACCTTTCAGACAAGTAGATGCTTCTGCATCCTATGAGGTATT
CCCAAAGCCCCTCTTTAATCTCCACCATTGTGCATAATTTTGTGATAATGAAGCAGTTAT
TTTCTTCTCTTGATAGACATTTTATGAAGGCAGAGACTATGCCACTCTTGCTTACAGTTG
TAGCTCCAGCATCTAACATGGTGTCTTAACACATAGAAGATGCTCAGTAATTACTTGTTA
AATGAATGGATGGGTGGGTGGATATGCCCTAATATGATGCAGCTTGATTATGCTGAAGTC
TGGCTGGATTAAGACATCATTCAAGAAGTAAATACAGTATCTTTAACT

Sequence=9258;DNA;Homo sapiens
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TGTAAAAGTGGGATTGGTATGGGATAAAACGTTCTTGTGCTGCTTGCAAAAGTCTTTGGA
ATATTCTTTGGGATATTTTGGTGCTTAGGAAGTGCTTTTCAGGTTATATTAATATATGCT
TAGTCTTCATGCTTTCAAGTCCTGTGGGACGTTAATGTTAGTCTTTTAAGTTGAGTCCTT
TTTGGTTATATTAAGAGGTAGTTCTGATGTTTCAAAGGCCATCCAGAAATAGGAATGCCT
GAACAGGAATTTCCAATTAAGTCGGTCAGAATCCTGAAC

Sequence=9259;DNA;Homo sapiens
GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG
AATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGACACAAACTAACCTCTAATGTC
AATATACTGTGAAAAACACTGTGATACAGATATGTGGAGGGTAGTATGAGGACACAAAAA
AGAGTGACAGCTAACCCAACCAAGGTGGTCTGGAGAGGCTTCCTGGGAGACTGATTTAGA
CTTAAGTGTTATGGACTAAGTAAGAGCTACCTGAGTGAAGAAGGAGGGAAAGGAGACTCC
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TTATGAGACCGA

Sequence=9260;DNA;Homo sapiens
CATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTACGAGCGGCCG
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GTGAGAAATATCAACTGTAGTAAGCACTGCAGAAAAAGGTGGAAAATTTGTAGGC

Sequence=9261;DNA;Homo sapiens
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AGATATGCTGAGATAATTACAGATGAAATGTTTTTGGGGTTTTTTTTCTACATNAATCTG
TTGTAATTAACTGGTGAGGAGAAAGTGGGTGTATAAACACATTGCTGCAATTAAGTGATG
GAGACATGAGTGTTCATTGCACTACAATTACATTTTATTGAAAATTTCCTCACTCAAATT
TATGGAATAGGTATCTGTTAGAAACTATTGATCATTCTCTCTAAATTTGAAAAAAGAAGC

TABLE 2

1463/3461

TGTATTTGACTCTTATGTCCCAATAAAACTTAAAAAATGCTGCCCGAGAATTGTTTGGTG
TGAAAAAAAAGGAAACTACAAAGTCTTTTATTAGTACCTCGGCCGCGACCACGCTAAGGG
CGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCG
TAATCAT

Sequence=9262;DNA;Homo sapiens

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GATTAGAAAAATATCATTCCTATTCTTCTTGGCTATAAATTACCCATACAAAGTTAAATT
TAATTATACATTCTTAATAGTCTTGGATAGACAGGGCTTCACAGATAAATTGTAATTTAA
GCAAGAATTATTTTTTCCTGTTTAACCCTAAACACAATAATGTGGTCTTTACTAGCTCAT
CTCAATTGAATATCATGCCTTAGTATTTGGGCTTTATATAATTTAGTGTGTATATTAATT
TCTGCTCCTGAGCTCTTATAAATGAAACTGCTGGGAGCTGTGCACAAGGCTTAAACTAAA
GAAACCTCTTAAAGACAGTGTGGATATCACTGAAAGTATTTTGGGGGAAAACTAAATTTT
AATGTAAAAGAGAACAACTTTTAGAAAGAAGAGAACCATAAAAATAAAATGCAGCACTCC
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AAAATACATCAGCACCTTTTTGCTTCTCCCTATAATGAAAAA

Sequence=9263;DNA;Homo sapiens

TCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGC
GTGGTCGCGGCCGAGGTACTTGTTTTTGGCCACAGGAATCTTAAGTGACTTAATTAACAG
GTGAGTGGCATTGCTCCTGAACAGAGCTACCTAGTTATAATCTGTGTTACCTTTGCTTTA
AAATGTTCTCTTTACTCCATTTCCTTAGTTGATATGCTTGAGGCATCTTGTTGAATCCAT
CATTTATTCACCCACTCATTCATTTCACATGTATTTGCAGTTGCAAAGCAGGCAGTAGGA
ATAAAATTAGGATCAAAATAAGGTAGTAGTAACGAAATTTGCTGAGTATGTTCTGAGAGA
ATAGCTGAATATACATTTCTAAATGGACGACAAATCCATTTGGAAGTCTTCTCCTCCTGT
TATTTTGTAAATGTCCCTGCTCCTCACAATTGGGTAAGGTGTGATATGGTGAGA

Sequence=9264;DNA;Homo sapiens

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TCGCCCTTAGCGTGGTCGCGGCCGAGGTACGTAAATGGAAATTATCCCGCAAATTACGGC
ATCTCCAAATGTAGCGTGGAAACTAATATTGACATGTCAACACAGGATTAATACATAGTA
ATCAAAGAGTGCTTAAAAATTCATTAAAAATGAAGTCCCACCTCTAAAAGTGAAATGTGC
AAATTAAAGTAGCAGTTAGATAATGTTTTGTCATTTAGGTAAAAATTACAAAGAATCGGC
CGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTCTGGGAGGCCGAGGCCGGCAGATCA
CCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCATGGTGAAACCCCGTCTCTACTAAATAT
ACCAAAAATTAGTTGGGCGTGGTGGCAGGCTCCTGAGTAACTGAGATACAGGCACGGGCC
ACCGTGCCCAGCTTGTATAC

Sequence=9265;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT
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TAAAATAGGTTTCAGTCACTCAATGAAGTGTTTGCTGGGAGATCTCGCCTGGTCCTGTGG
TCCTTTAGTGAAATATGGGGAAACCAGCAGGGGACGTAGGTCAGATAGTTTATAATGGTG
AGTTATAGGTTGTATATTATAAGGAGCATTTCTCAGCACTGAAGAAATTTCACTAGATTC
CAGCTCACCTTTCCAAACTATTAAAAGCAAAACGGGACTGTTTTTCAAAAATTGGAAAGT
AAACCTGGCTTCTTGTTAGAAATTTGGAAAATATTGAGAAGTTTTAGACCCAGTCCCTTT
AACCTTAAGGAGCTCACATGCAATAAGATGGAAGGGCAGGGGAGATCAGGACAGAAAACT
ACCGATATGGCCGTGAGAGCATGGAAGCTTAGATCAGTGAATTCTTCTTGAATTTACCTT
TTTAT

Sequence=9266;DNA;Homo sapiens

CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG
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TTGTAGTAATTTTAATGTATTTTTCACTCTGGACAAAAAGATGTGTCTTTATTCCTGATA
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TABLE 2
1464/3461

ATTCCCGGGTAGTATCTGATATTTTCCATAGCTCTTTGGAGAAGATTCTTGTTTAAGATG
CATGGGTACCTGCCCGGGC
Sequence=9267;DNA;Homo sapiens
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AGCATTTTACTTAGTTACTACTATGT
Sequence=9268;DNA;Homo sapiens
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CCTAAATGAATTACGAGATGAATTATCAAGGAAACAGAAAGAAGAATTATGGCAAAGGCT
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Sequence=9269;DNA;Homo sapiens
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TTCCACACAACATACGAGCCG
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TABLE 2

1465/3461

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Sequence=9273;DNA;Homo sapiens
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ATAGCCTG
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CTTGCACAAAGGCAAAGTGGCAGGGAGCAAGGGAGGGAGTGT
Sequence=9278;DNA;Homo sapiens
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TABLE 2

1466/3461

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TGAGATCTAAAGCCCCATTCCTAACTCTTGGTTTTAGAATTGAGGAAAGTGGAATAAATG
CATTTGGAAAGGATCTGTTNTCTTCCCAGGTTTCCTGCCTGGGGGTGAAAATAAAGGTTCA
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TTTCAAGATGGTTCCCCCCCACCCTCCACAATGCAA

Sequence=9279;DNA;Homo sapiens

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TGAGGTCCCAGTGGAGTGTCAGACCTAAACTTCCAGTTTCCCAATTACTTAAATAAGGTT
CTTCTCATCAGACCCTCTTTCCTCATCTCTCTACTAAAAAACTACAGTGAATAACTTCCA
CTGTCATCAAATAGAAACTTTCTGTGCTGGTTTCCCCTACCCCACCTTTCTGTGCTTGAT
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Sequence=9280;DNA;Homo sapiens

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CTTTCAATTTTCTAAATATTTGAAATTTTCTTAATAAAAAGATAGGGAAACAAAGGTGGC
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GACTCAGGGATCCTGCAGCCAAAGG

Sequence=9281;DNA;Homo sapiens

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Sequence=9282;DNA;Homo sapiens

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GGGTCATTTACATTCCTTTATAACACTGGAGCTCTGGTGTATCGAATTGTGTTATGAGAT
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Sequence=9283;DNA;Homo sapiens

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CAGCAGATCAATGGCAAGCCAGAGACAGGTGGGATTTTTGTGTTCACTCTTCTCTTTTTC
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Sequence=9284;DNA;Homo sapiens

TABLE 2

1467/3461

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Sequence=9285;DNA;Homo sapiens

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Sequence=9286;DNA;Homo sapiens

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GGGCAACATAGCAACACCCCATATCTTATTTAAAAAAAAGCACTCTATGTTTGTTTTGGG
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TTGTTTATTGTGATTATCTTTCATATAACAATGTGCTTAAATAGCTGGTGGTTCTTGATA
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Sequence=9287;DNA;Homo sapiens

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Sequence=9289;DNA;Homo sapiens

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TABLE 2
1468/3461

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Sequence=9290;DNA;Homo sapiens
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Sequence=9292;DNA;Homo sapiens
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Sequence=9295;DNA;Homo sapiens
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TABLE 2

1469/3461

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TGGGAGACTCTCTGCTGACCACAGCACTGTCTCTCCCCAGGGCCCAGTCCCACAGTGTCA
CTGAGTCCAGAGTCGGGACTCCAACAAGCCCTCCGCATTCCAGCATGACTGTGGTAAAAA
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Sequence=9296;DNA;Homo sapiens

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CAAAATATTAACGGGTGATAACTTGCTTTTCTATTTTAAAATAGAAAAATTAATTCTCCC
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GTTATTATTTTTTCCAAAATTAAGGCTCATGCTCAGAAGCTATTTTTCTTAATATGTTTG
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Sequence=9297;DNA;Homo sapiens

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Sequence=9298;DNA;Homo sapiens

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Sequence=9299;DNA;Homo sapiens

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TABLE 2

1470/3461

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GTTTAAAACTAGACAGATG

Sequence=9301;DNA;Homo sapiens

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Sequence=9305;DNA;Homo sapiens

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TABLE 2
1471/3461

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TABLE 2

1472/3461

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TABLE 2
1473/3461

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TABLE 2

1474/3461

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Sequence=9323;DNA;Homo sapiens
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GAAGACTAATCATGCACCTGGTTTCCTGCTCTGAAAAATAAGAAGTGATTTTGGCAGCCT
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Sequence=9328;DNA;Homo sapiens
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TGTCGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACAC

TABLE 2

1475/3461

TTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAA
CTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAAC
ATTACTGGCGTGCTTTTTGCTTTGCTTTTGTG

Sequence=9329;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG
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TAAAATGTTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTA
CATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATG
ATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAG
CGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGC
GTGCTTTTTGCTTTGCTTTTGTGTGCTTT

Sequence=9330;DNA;Homo sapiens

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GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATATACATTA
TGTAATTAAAAAGCGTGCATGTGTATGTATTAAAAATAATGGTATATAAACAAATACAAT
ATATACAATAAAACACCTAAACGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAG
TATTAATGATGTGTATGTAGACACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACA
CAAAAGCACACAAAAGCAAAGCAAAAAGCACGCCAGTAATGTTGTGGATGCAGTATCAAG
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GACAAAAATTGGTCACGTTGTCATTCACTATCATATGTAAGTGTAACAATTGCACTTTTA
TGTTTTACATTATGTCCTGTCCAATGCCATGTAGACGACACTGCAGTATACAATTTACAA
TGCTTTTTAAATCTATATCTTAAACATTNTAAAGTATTAGCATCACCTTTTAAATGTACC
TCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCC
GAGCTC

Sequence=9331;DNA;Homo sapiens

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CTGAAGCATGAGAGAGGGCCAGACAGATATTGTGGAGTCCGTGCAGCTTTCTACTAATTT
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AAAAAAAAAAGAC

Sequence=9332;DNA;Homo sapiens

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Sequence=9333;DNA;Homo sapiens

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CTT

Sequence=9334;DNA;Homo sapiens

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TABLE 2
1476/3461

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Sequence=9335;DNA;Homo sapiens
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Sequence=9336;DNA;Homo sapiens
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AGTCCAAGCCACCGTAATTGCTGGCTATTGTAACAGCTGACATCTTGGGCTGGAGGTGTG
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Sequence=9337;DNA;Homo sapiens
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Sequence=9338;DNA;Homo sapiens
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GTGTTCAATTACATTCTTCAAATTCCCCTCTTTCTTGTCTCTCCAAATATTTTCAAGTCT
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Sequence=9339;DNA;Homo sapiens
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ACCCGTACCGAGACGCCGCGAGGACGACACGCTCCCAACACGAGGCCCACGCCGCGGACC
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TABLE 2

1477/3461

Sequence=9340;DNA;Homo sapiens
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TAATGTTAAAGTATAACTTTTGGGTATACATTTCATATGTTAGCTCCATTCCAGGCTTCA
TTTTGTGTCTCAATTCCCAATCCTTAATTTTCGTTTTACTGAGTCTTTTTTTTTTTTAGT
TAAAA
Sequence=9341;DNA;Homo sapiens
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GAGTAGCATCATTCCCTAAGATGAAGATGAGATCTTGTATAAAAAGGAAAAAGGTGAGAC
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CT
Sequence=9342;DNA;Homo sapiens
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Sequence=9343;DNA;Homo sapiens
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GTGTTTTTTGTAGAGTTGGGTTCTCACCATGTTAACCTAGGCTGGTCTA
Sequence=9344;DNA;Homo sapiens
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GGCATTTCTATGGGACATCTTTGGCCAACAACTCAGCTGAATGCACTACAGTCTCTGTAC
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Sequence=9345;DNA;Homo sapiens

TABLE 2

1478/3461

CGACTCACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA
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CTCATCACCTACACCCTTGGTTTACTTCTCAGATAAACTCAGGAAGTTTAAATGGCATTC
TGAGAATCTGTAGCTGCAACATAGTGAGCCCAGGAGTCCCGGTCCAGCAGCTAGTATTAA
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GCACAGTAACAACCATTTGTTTCTCAACAAGAATCTGATAATGTTGCTTGAACCTCCTGA
ACCAGTGCTGCATGCTCTGCTTCTTCATATGTTTGTCCTTAGATTTGACCAAAAACAATA
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Sequence=9346;DNA;Homo sapiens

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AAAACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCA
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TGTGGATAACAGCAGCCTCTGCGTTTAGGTGGTTTATTGGATATATTGGATTTGGTTATA
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Sequence=9347;DNA;Homo sapiens

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TGCTTTTCTTCCAGATGGAGCTAAATTGCTATATGATACAGGGTTTATTTTATATTTCTC
ATATTAAAGATGAAAAAGTGAAAATTGAGTAGTTGACTCAAAATTATATGTATATATATA
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TGGCAACTCCAAATATTTTGTGTTTCACA

Sequence=9348;DNA;Homo sapiens

TAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG
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ATCTTATGTAAAATAATTGTGTGTCTGAGAGAGACTAAAACTCATGCCCTACTTCTCATG
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Sequence=9349;DNA;Homo sapiens

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ACTTCCAAAAACCTTTTTGGCTCTCTCAAGAATTTGCTCTCAATATAGGAGTGGTAAATA
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ACCAACAGTGGGAAATAAGATGAGGGTAATCCTTGTCCTCACAGAACCTCCATTCTTAGA
GGAAAGAAGGAAATTAAACATGAAATTACCACTGAGATGAATTATGAAAGGGGAAGCAGA
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Sequence=9350;DNA;Homo sapiens

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TABLE 2

1479/3461

CAGAGGAACAAAAGGAATATTGAGGATGCGCTC
Sequence=9351;DNA;Homo sapiens
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Sequence=9352;DNA;Homo sapiens
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Sequence=9353;DNA;Homo sapiens
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Sequence=9355;DNA;Homo sapiens
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TTCCCCCCCC
Sequence=9356;DNA;Homo sapiens
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TABLE 2

1480/3461

TACTTTAAAATGTTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTC
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TACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTA
CTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATACGTCCG
CTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGGATA
ACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGNATTTGTTTATATACCATTA
TTTTTAATACATACACATGCA

Sequence=9357;DNA;Homo sapiens

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TTAGACAAATGACTTATCCTCTCGATGTTTAAGTTCTCATCCTGATAATGGCAGCACCTA
CCTCACAGATTTGTGAAGAATAGAAAGTTACTACATGGCTGCTCATCACAACAGTGATGA
ATACATTGCAGGGACACTTTAACTGGTGTACCTCGGCCGCGACCACGCTAAGGGCGAATT
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TGGTCATAG

Sequence=9358;DNA;Homo sapiens

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Sequence=9359;DNA;Homo sapiens

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Sequence=9360;DNA;Homo sapiens

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Sequence=9361;DNA;Homo sapiens

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TGCCTAATTTGACTTGAAGACTGTTGGCTTTGATGACTNTTAAAAATATTAAATAAAACT
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TABLE 2
1481/3461

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Sequence=9365;DNA;Homo sapiens
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TABLE 2
1482/3461

TTA
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CAAAGTGCTGGGATTACAGGCATGAGCAGCCACATAGCTTTCTTAGCATGCCCTTTGTAT
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TACTACTGCCAAGATTTCTGCGTATTGTTTAAAATGTCTCTTGAAAAAAATATCTAC
Sequence=9369;DNA;Homo sapiens
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Sequence=9370;DNA;Homo sapiens
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CATCCGAGAGCCCGGACTGGAGGAGTTGAGAAGAGGAGGAAGAATAATGGGAGGAGCAGG
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Sequence=9373;DNA;Homo sapiens
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TABLE 2

1483/3461

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Sequence=9379;DNA;Homo sapiens
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TABLE 2
1484/3461

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Sequence=9380;DNA;Homo sapiens
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Sequence=9384;DNA;Homo sapiens
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Sequence=9385;DNA;Homo sapiens

TABLE 2

1485/3461

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CTTGCTACCTTGTTAACTTGCAGTGCCTTACAGTTTACCATTGGCTGTCCTGAAATACCC
TCTTAGAACTAAGATCATACAATTGGAAATCATGGGTAGAAATCATGAAATCATGGGTAG
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Sequence=9386;DNA;Homo sapiens

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NGGATCATACTGTAAAACATCAAAAGTGCACATTGTTCACACTTACATTATGATGAGTGA
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Sequence=9387;DNA;Homo sapiens

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Sequence=9389;DNA;Homo sapiens

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Sequence=9391;DNA;Homo sapiens

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TABLE 2

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GCTCG

Sequence=9392;DNA;Homo sapiens
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TABLE 2
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TABLE 2
1488/3461

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TABLE 2
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TABLE 2
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TABLE 2
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GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCAGGAGCCA
GGAAGAGCAGAGGGGAGCATCAGTGTCCACATGTTGGGGGATACCTCTGTGATCTNGTCC
ACCCCTAGTGGACANAGCCACATNATTCAGGCCAATGCCCAGTAAGGGACTGGTAACAAT
ATTTCTGTAAGTCCTCCAGCTGCCCCAGGGAGTCAGCTGTGCCATCAGGTCCCATGGCCT
TGCTCAGGAGACCAGAGTGAACATGACAAAAGGAGAGCCACTTCTCCTTCAACCTCTGTT
CACTGCTAAGTTACCTTGCTTCTGGAGGAAAACAGATCCTTCCTCAAGCTTGTCAGCCAC
CTCCCCTGAGGCCTTCCGTGCCTCTTTTAGATTCTCGTACGCGGGGATGACAAGCAAAGG
AACATACTTGCCTGGAGATAGCCTTTGCGATATTTAAATGT
Sequence=9422;DNA;Homo sapiens
CTATAGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTGCAGTCAGGAGCCAC
TGTGCCTGGCCTCTGGGCAAACCATTTCTCTCCTTGGCTACTAGGATGGGTAATTTTCTT
GCCCTTCATGATTGATCCTTCTCTCTACCCTTTAACACATCCTTTCCCATTTCCACCTCT
TAATACTCCATTACCAGTATTTTCTAAGGTTCCACATTTAAACTCCATTCTCTGTCTCTG
TATTTCTCTCTGCCTCTGGCTCTGTCTCTTATCTTCATACTTTTCACCCCACCCTGCTGG
CAATCTCATTCTACCCCAGGAATTTAACTCTATCCTGTCTTTGTTATGTTTAAAGAAGAG
CCACAAGGAGAGGGCCAGAAACTTTTATCATTTTTTATAAGGATTTTCCCTAAGGGACAT
CTGCCTTTTTTTTTTTTTAA
Sequence=9423;DNA;Homo sapiens
TACGACTCATATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG
ATGGATATCTGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACTCACTTCCTCTTGG
TGCCTTAAGAGCTTTCCTCAAATTGTATTTCTGAGCAGGGACATTTACAAGCCTGCATGG
AACTGAAGGATCTCCTGTCTGAAGATTCTCACAAGTAATTGATAGAATGAGATTTATTTG
ACAAATAACAAAACCATCTGCCAAATCCATGATTAAATGGCAGGGACTCTGGGTCTCTTG
TGCTTAGTGAGGGAAGGAAGGAGGTGGTATGTTTTCAGTGAAACACTCACTGAATGGAAC
TCCAGGCTGGAGGGAGAGTGAAGAGGGAAGAGAATACAGTCCTTGCTATTTTCCTCAGCT
GATTCATAATACATTAACACCCTCATTTACATGGCCTATTAGAAGTTATTTATATTCCAA
TTACAGGCTATTTGAATATTGCATTTGTAGTCGAATTACAGGGTTTAAGGAAAGCTCGTT
TGTTTTCAAGAAAGGATTCTGGTTTAAAGACAAAGAAATGGGCAGCTTGCAGATACGGGC
AGCTTGCAGAAGCTCTGGGCACACCAC
Sequence=9424;DNA;Homo sapiens
ATTGGGCCCCTCTAGATGCATGCCTCGACGGCCGCCAGTGTGATGGATATCTGCAGAATT
CGCCCTTCGAGCGGCCGCCCGGGCAGGTACCTGGCACAAGGTAAGTGCTCAGTCAATGTT
TGTGTTATCATTTTATTGCTTGAGCTATGGTCTTTTCCTGATTCTTTCTTGCGACCACAG
CACCCCACAGGTTTTTGAGTTATCTTGGAACTAAGTGGACCCAACAGGGAATCTATTATC
ATGGATAAATGAAAAACTGAATGAATAAAATTTACTGGTTTCCAAAGGAAAGCAGAGAAT
AGATTCAAATTCCAATTATTTAATAAACACCAAACACAACAATATATACTGAACTGAAGA
AGTTGGATGGGAT
Sequence=9425;DNA;Homo sapiens

TABLE 2

1492/3461

ATTGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCG
CCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATT
TAAAAGGTGATGCTAATACTTTAAAATGTTTAAGATATAGATTTAAAAAGCATTGTAAAT
TGTATACTGCAGTGTCGTCTACATGGCATTGGACAGGACATAACGTAAAACATAAAAGTG
CAATTGTTACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTA
AAATACCAAAAACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATAC
TGCATCCACAACATTACTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCCG
CCTATTAATACGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGT
ATTACTATTGTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGGATT
TGTTTATATACCATTATTTTTAATACATACACATGCACG

Sequence=9426;DNA;Homo sapiens

ACGACTCACTATTGGGCGAATCGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTTTTCCACAGA
GTGGGAAGATAAGAACACATGTAGAGATGATAAAATGTCATTGGCTCCAAGAGACAAGCT
CCGAAATCCATGGTGGTTGAAGAACATCAAAGAGGAGCAATTATTTCAGTCATTAGGGCA
GTTCCACCTGTTCTAATTGAACATTTTTAGGATGTAGAAGATGCATCATACATTGGTATC
TATTCAGAAGGTGGGGACATCTGCTGTCTGTCATGTATCTGGGAGATGTTTATCTCAACA
GGAGGCAATAATAATATGGTAAACCAAACCTAATATTATCATGATGCATTAAAACTGGGT
TAATTGAAGCAATAAAATCAAAGTAACAGTAAATGCTTATACAACATGTTAAGTAATATT
TACTTCAATCTTAGAAATGAAATGATAATTTTACATTCTAGCAGATGTATTTCTTGATAC
CTGTTCTGAGAGGACAGAAACAAGGCTCAAAATTCATGCAAGAGGCTAATAACAACTTAG
TTGATAGTAAAATATGGAGCATTGGATGTAGAGTGCATTAACCTTCTTGGTTAATCTGAG
GTGACCTATAAGTGGGCATATTGTTTTTTGGGGA

Sequence=9427;DNA;Homo sapiens

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TGGGTGACAGAGCAAGACTCCGTCTCAAAAAACAAAGTTAAGGTTGGGGAGTTAAGGTTG
GGTAGAATGCATTAACCAGGCATTAGAATTGCAATGTTGGGTTCAAGATTACCACTTGGG
CACTGAAGTGAAGATTAAGGGTTAGAAGTTAGGATTTAGTACCTCGGCCGCGACCACGCT
AAGGGCGAATTCCAGCACACTGGCGGGCGNTACTAGTGGATCCGAGCTCGGTACCAAGCT
TGGCGTAATCATGGTCATA

Sequence=9428;DNA;Homo sapiens

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ATGGAACCATTTAATAGAGATTTTTTTCTATAATTATAAACGATAATTTCTAAAGCTGTA
GATTAACCCAATAACATAGACACTTCTTAATAACAGCTTTTGGAAATTGGAACAAGAAGT
CTGCAAAGGCGGCCGGGCACAGTGGCTCACGCCTGCAATCTTAACACTTTGCGAGGTCGA
GATGGGCATATCACCTCAAGTCAGCAGTTCCAGACCAGCCTGACCAACATGCTGAAACCC
CATCTCTACTAAAAATACAAAAAATTAGCCAGATGTGGTGGCACGTGCCTGTAATCCCAN
CTACCCAGGAGGCTGAGGCAGGAAAATCGCTGGAAGCCGGGAGGC

Sequence=9429;DNA;Homo sapiens

ACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA
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TGCTAATACTTTAAAATGTTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGC
AGTGTCGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTAC
ACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAA
AACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACA
ACATTACTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATA
CGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTG
TGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGTATTTGTTTATATA
CCATTATTTTTAATACATACACATGCACGCTTTTTAATTACATAATGTATATGTACCTCG
GCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAG
CTCGGTACCAAGCTTGGCGTAATCATGGT

Sequence=9430;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA

TABLE 2

1493/3461

TGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACAGACCTACGTGAC
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ATGGGATTTAAACATATTAACCACCAGGTGGTGCCAACGCTGGCTGTACCAAAGAATAAA
GCATTACAAGCAATTGAACTGCAACTAACGTTAGAAACAATATATAACTCACAATATAGT
AATGAAAAGTGGACATTACAAGACGTTAGCCTTGAAGTGTATTTAACTGCACCAACAGGA
TGTATAAAAAAACATGGATATACAGTGGAAGTGCAGTTTGATGGAGACATATGCAATACA
ATGCATTATACAAACTGGACACATATATATATTTGTGAAGAAGCATCAGTAACTGTGGTA
GAGGGTCAAGTTGACTATTATGGTTTATATTATGTTCATGAAGGAATACGAACATATTTT
GTGCAGTTTAAAGGTGATGCAAAAAAATATAGT

Sequence=9431;DNA;Homo sapiens

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CAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATAC
CTTAAAATGTTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTC
TACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATA
TGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTAC
AGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTG
GCGTGCTTTTTGCTTTGCTTTTGT

Sequence=9432;DNA;Homo sapiens

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TGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGA
TGCTAATACTTTAAAATGTTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGC
AGTGTCGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTAC
ACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAA
AACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACA
ACATTACTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATA
CGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTG
TGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGTATTTGTTTATATA
CCATTATTTTTAATACATACACATGCACGCTTTTTAATTACATAATGTATATGTACCTCG
GCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAG
CTCGGTACCAAGCTTGGCGTAATCAT

Sequence=9433;DNA;Homo sapiens

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GCCCTTGAGCGGCCGCCCGGGCAGGTACTCGTGGCCCATGTTGGTTCAATTTTTATAGCT
TCAGTTATCCAAAGGTGACACAGAATACCCATAATGATGACTGGGCATGCGTTTTACCTT
TGGGCAGACACCCCATCTTTTTTATTCTGAAATTTAAAATAATTCAGATTCTTTTGGGGAG
GGGATTAGTTTAAACATTAATAAACAGAATATAAACAGGCAGATGGATGGGTAGATAAGC
GGTATTCGGGAATTTGAGGGCTTGGGACAGAAATAGATTCCTTTTCCTTTTTAGGTTTTC
TTTCCTAACTTGCTGCTTCC

Sequence=9434;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
GATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACATATACATTAT
GTAATTAAAAAGCGTGCATGTGTATGTATTAAAAATAATGGTATATAAACAAATACAATA
TATACAATAAAACACCTAAACGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGT
ATTAATGATGTGTATGTAGACACAGACAAAAGCAGCGGACGTATTAATAGGCAGACACAC
AAAAGCACACAAAAGCAAAGCAAAAAGCACGCCAGTAATGTTGTGGATGCAGTACCAAGA
TTTGTCATATAGACATAAATCCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAG
ACAAAAATTGGTCACGTTACGCATATGTAAGTGTAACAATTGCACTNTTATGTTTTACAT
TATGTCCTGTCCAATGCCATGTAGACGACACTGCAGTATACAATTTACAATGCTTTTTAA
ATCTATATCTTAAACA

Sequence=9435;DNA;Homo sapiens

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GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGTGTATTGACTAATTGCC
CTCCAGTAAAGTTGCTGCAAATTATTCTTCTACCAGCAGTGTCTTAGAGTTACTGTTTCC
TTAGAGACATGCAATGTTCTTTATTGTCTTTGTCAGTAAGTCAAGCTAAACAAATATTTA
AGCTTTATTGTTTATTTCTTTGATAACTGCTTCATGTGCTCTTGTCATTTGTGCATCTTC

TABLE 2

1494/3461

TGTGAATTGCCTGTTTTTGTCTTTTGCCCATTTTATTTATTGAATTGCCTTTTTTAAAAAC
TGATTTGTTCATGCCTGTAATCCCAACACTTTGGGACTCCAAGGCAGATGGATCACGAGG
TCAAGAGATCGAGACCATCCTGGTCAGTGTGGTGAAATCCCGTCTCTACTAAAAATACAA
AACTTANCTAGGTGTGGTGATGCCCACCTGTAGTCCCAGCTGCTCAAGAGGCTGAGGCAG
GAGAATCGCTTGAACCAGGGAGGCAGATGTTGCAGTGAGCCGAGATCACGCCACTGCACT
CCAGCCTGGTGACAG

Sequence=9436;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG
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AAAGTTGATATTGTTGGTTATTTTTCTTTTATTAAAATCCACAGCCCTGTGGGCTGCTGT
CCCATCCTTATCGGGCTCATTCAAGACCAGCATTGACATTTCTAATTTGCAAATTTAAAG
ATTGTCAGGAAATGGTTTAAACACCCAGTATGATTGGGGAGCTTTTTGACTGTGGGTGAC
AAGAGTGGGCTCACCTCTGGGAAGACAGTAGGGGCAGGGGAGGAGAGCTGGGCTAGATTT
AGGGAGAGTTAGGAATAGCTAACATTTATTAAGCACTTAA

Sequence=9437;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT
AGCGTGGTCGCGGCCGAGGTACTGTGTTTAGAAGGGATTACCAAAGGCTGGAGCGATTTA
AGCTATGCACTAGCCTTGCCCTCTTAGGTTGCATTCTCTATAGCCACTGGTTCTCAAACA
TTAGGGTGCACTGTAACCATTACAGAGCTTGTGAAAAGTGCAGAAACCTGAGCCTCACCT
TATGAGATTCTGATTCATCCAGGGGGAGGACAGGAATCTGTATTTTTCATAACAACCTCA
AGTAATCTTTATTCTGAGGGTCTCGGGATTGCTAAGTTGATAACACACAAATCTTTAATC
AGGCAGTTAAATTCTTTTTTACTCGGCCAGGCGCAGAGGCTCATGCCAGTAATCCCAACA
CTCTGGGAGGCTGAAGTGGGTGGATCACCTGACGTCAGGAGTTCTAGACCAACCTGACCA
ACATG

Sequence=9438;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA
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TCTGTGATTATATGGGTAGTTTTGAAAGAATATACTTATGAGCCAGAGCAAGAAATTGGA
ACCAATATGTGTAGAGGTTATTGCTTTTCTCTGCTTAGTGTGTCTTGGAAAAAAGTTCTT
TACAGGTAAATAATTTTAAATACCAATACCCTTAGTATGGATCAGCAAATTAGGGGCTCT
GAGAAGTCCTTTCATTACAAGAGTTGTTTAGCTTTGATTTATTGTTTTCTAAACTTATTT
GAGCTGGGATGCTTTTTCAGAGCAGACACATTCTAGTATATTCTTGTTTTATCTGCACTA
TAGATATGTATTGTTACATACCTTCAGCTTGGCAAGGCAGACTAATAAGGAGGTTCCAAG
ACTTCCCTTGGTTTAATGAGAACATTCAAAAGGTGCAGGCATAAGGTAAGGTATGTTTGA
GGAC

Sequence=9439;DNA;Homo sapiens

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GCCCTTTCGAGCGGCCGCCCGGGCAGGTACAATGAAAGGCCAACTCCCTCTTTGGACACA
GGGGGCTTGGTTGTATTCTACCAAACTCCCACTAGGGGGAGTGTTTTAGCAGTGTGGGCT
GTGCCCTTCACATTCTAAACAACTGATTTTCATTAGTGATTCTCATGAACAAAAAACTTC
ACCTCTTCACCTATCATGAATACTCAACTTATAAGGCCAGGTGCTGTATAAATCCCCGCC
CTCAACACCCAGACTCCCAAATGCAGGTAGCTGAGCTGATGACTTTTTATAAGCAATGCT
ACCTTAAAAATATGCAG

Sequence=9440;DNA;Homo sapiens

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GATGGATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGGCAAC
AGAGCCAGACTCCATCTCAAAAAAAAAAAGAAAGAAAGAAAGAAATGAAAGTGGTCTTGT
GTGGAGTCTCTGCCCTCTAACCTTGTAGTTGGCCCAACTTAGCACAATTTCTTATGTGAT
ATTTCAGTTAATAGTGCCTCTTAGGCACTATTATCATCAATCCCATTTTGGAGATTGGGA
AAATGAGATAAGGAACCTGACTGAGGTCACACAGTTATCAAATGACAAAAGCGAAATTTA
AAAGCAGATACCAGCAGGGCTTGATGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCC
AAGGCGGGAGGATCATGAGGTCAGGAGATTGAAACCATCCTGGCTAACACGGTGAAACCC
CATCTCTACT

Sequence=9441;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA

TABLE 2

1495/3461

ATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTGAGTTCGTCATACATCTAGATGAGG
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AATCCAAGGGAAACCTACAGTTCTTTCTCTGCCGTAGGTTCTCTTCTCCTCTCTTCCACT
TCCTCCAGCTCCTGTTTGTCTCTTCCTCCCTGTGTGTCTTACTACCTTGTTTTGGGGGTT
TGTTTTCTCTCCTGATTTTTACCTCTTTCAGTCCTCAAAATGGTCTGAATAAACTGGAGA
TTAATTTATTTTTGAAAGAAGTGTTTGTATCTACTAAGTGAGGTTATGGAAGAGATCCAA
AAATGTTCTGGGTGGCAGGAGAAGACATTTAAAATACACAGTTAATAAGCCACATTTAGA
TAATCTATAATTGACTGTAGTTTATTCAGAAATGTCTTTTGTTAAATAAAGCTTCTAAGT
GAAGTCTCAAAGCCACAGAATTAAGAAAGGCTGTTTGTTTAGTCAATGTGATTACTGCTC
ATATTTTTAAAAGGAAAAAAAAGCCTNNNAAAAAGAAAAAAAAAAAA

Sequence=9442;DNA;Homo sapiens

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CGGGCAGGTACTTAGGCATGGTCAGTAAGATCTGGCCAATGACATGTAAGCAGAAATGAT
ACATACTAATGATATCCTGAATAAGAATGGGGTGTGACCACTACTATTGTTTTTCCTGTT
CCTGCTGGCTGGAATATAGTAAAGTAGGAAGCTGAAGCAGTAATATTAAACCATGAAATA
GAAAATACATGTTAAATATGGCAGAGCACTAAGATGGAAGAAATTTGGGTCACTTGCATG
ATGATGTGTGTGCCTATTACTAAATCTGCTTTGTTATCTGAGAGAATACAGTCTCCTCAT
TAAACTAAATAACATTCACTATGACAGCATTGTTAATCTATGAGGTGCCACAGAATCCCT
TATAGATTACCTGCTAAACCTGTACCTC

Sequence=9443;DNA;Homo sapiens

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AATAAAACTAGTTAATATTCCGTCAGGCCAATCGCTAACATAATATACTCCAATAAAAAT
TTATTGACATATATCCACTACCAAAAAAAAAAAAAAAAAACTTGGTTTTCTTTTAAAAAAA
AATTTTTAGGGGAAAAAGGGCGTTTTTTTAACCAAAATTTTAGTAAGGGGTGCTAATGTT
TACCCTTTTAAAAAAATTTTTTGGGCCCAAAAAAAAATTTTTGGGGCAAAATGGTGTTTT
AAAAACCAAAATATTAGTTGGGGGGGCCAAGGTTTAACAATATTCCCCTGCCAAGTAATT
TTTTGGAAAACCGGGTTTTTGGGGACCCTTCCCCCAAAAAAAACCCTTCCTTTTCCCAAT
TAAAAAAAAAAA

Sequence=9444;DNA;Homo sapiens

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AAGCTCTGGACTGATCACAAGGGAAACCGAGCAGAACTGTGAAGCAGACGGACAGGAACA
AAAGGCTATTCTGGTGTGAGGAGAAATCAGTCACTTCAGCTCCACAGGCAGATGTTGCTA
CTGGACTGACAAGTGGAACCTACTCCTGCTGGAGAAAGGTAAAGTTTGCCATTGGGGCAG
ACGCAGAGTTCATACACTGTCTGTCGAGAACTTG

Sequence=9445;DNA;Homo sapiens

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AAGAAAGCCCTTGCTGCTTTTATTGTCACTAAAATCATATATTGTTTTCCAAAGAATACT
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GAACTTTGAACACCTGGGCTTACATAAATTGCTCAGAATCAGTGTGGAAATCTTCGGAAC
AGTGGATGTAGAAGATTTGGGGTAAAACAGGCACTAGATGGTGAGGGGTTTTATGCTCTA
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Sequence=9446;DNA;Homo sapiens

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AGTGCCAATTAGGAATGCCTCGAACATCTATAAGCCTTGTAGGCTTATACTTGCCTTATA
TAGGCTTTGTAGACTATCACAGTAGTAGATCATCTATTGTTCATTAAATCTGCTGCTTTT
AGAATTCCCAGCATCAGAATTCTGTGCTTTAAAAGCTGATACCACATTTTTGGAACATTC

TABLE 2

1496/3461

TAAGACTGTGGGTCAGTGACCTCCTATTTGTTTTGATCCCCGCCCCGCCTTTTATGGAAT
CTGATTTGGATTTCATAATTCCTATACTCCCATATAACATCTATGTCGTGAAAGATTTAT
AAGACCATAGTACCTCGGCCGCGAACACGCTAAGGGGCGAATTCCAGCACACTGGCGGCC
GTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCT
Sequence=9447;DNA;Homo sapiens
CATGCTCGACGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCG
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GCAGACGCCAAGGCATATGGTCAGGAAGGGAGTTAACAGGCCACCAACAAAGAGGAAGAA
ATGCGGCAGCTGAAATCAACTGAGGGTAGATGAAAAGAGGATAAAATGGCACCGACAGAT
CCAAAGGCCTTAAGAAACTCAAAAAACCTCAGTAATAAGGAAATGTGTTTGGAAATACTG
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AACTGTGAATTACCTTAGGCTTTCACCAGATGAGTATGAGTAAAATGTGTGAAGTGAAAT
TCAGGTTAACCCTTCAAGTCACAT
Sequence=9448;DNA;Homo sapiens
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GCTTGGCGTAATCATGGTCATAGCTGTTTGCTGAAATTTAAATATNTTTAATTTTCAACT
CAAGAAAGGCATTTGGCAGAAACCATGTTTGGAAAAAAAA
Sequence=9449;DNA;Homo sapiens
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ATTCAATTATACATCCCTGCAAAATAATTTGAGGGCAGCTTTGAATGCTGTAAGTGAGTT
GTGATGCCATCTATATTAATCCTAAAACTTATCTTCAAATTGATTCCCAAAGTCCAACAC
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ACTTTGGGAGGCCAAGGCAGGCGGATTACAAGATCAGGAGATTGAGAACATCCTGACCAA
CATGGTGAAACCCCGCCTCTACTTAAAATACAAAAATTAGCCAGGCGTGGTGGTACACAC
CTGTATTCCCAGCCACT
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CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT
AGCGTGGTCGCGGCCGAGGTACAGTCTCTATTTCTAAGTCTTGATTTCCTCATTTATAAA
ACAAAGCATCTAAATGATATCAAATACCCTTGTTTTGAAAATCAAAGAATAAGCACGGCA
CCCAAGACAACTTTTTTGTATCACAGGCACACATGAATGCTTTTTTTCCTTTTTCCTTTTTCTT
ATCATAAAAACCTATATTTTATGACTTTTACATTTATTCCTAGATGCTCTCATATGCATT
ATCTCATTTTTTACAATAACATTATAAATATAAACACTGTTATGCTATTGTACAGATGAGA
GACTTGAAGCACAGAAGGCTAAAACTACCTTTAACTTCTAAAGAAATTTTGTGAGAAGCA
TTTGAGACTCTTGACAGTTAAGATCCCTATCATTTTAGAAAGTGCAACTGGGGATCACAT
GTATTTTAAATAATTCTAGTTGAGAATAGTCAAAAGTCGCATTTATGAAGCGAAAGATGA
CATTTTTAAGCTTCCCAATGATTTAATCAAGCCTATTTA
Sequence=9451;DNA;Homo sapiens
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GGCTTGATTTATTTCAAGAGCATATGTTTGAAGTATTGGAACGAGCAAGAAGGATGAATC
GGACAGATTCAGAAATATATGAAGATGCAGTAGAACTTCAGCAGTTTTTTATTAAAATTC
GTGATGAACTCTGCAAAAATGGAGAGATTCTTCTTTCACCGGCACTCAGCTATACCACAA
AACATTTGCATAATGATGTGGAGAAAGAGAGAAAGGAAAAATTGCCAAAAGAAATAGAGG
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ACAAT

TABLE 2
1497/3461

Sequence=9452;DNA;Homo sapiens
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GTATTCATCATTATTAACATGTCCTGGGGAAGGAAGGGAAACTTTCTAGGACAGAAGTCA
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CGGTAAGTATAAATATTTGAGAAAACACATGGTCTGGATATTTAAAACCCTCATAAACAT
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Sequence=9453;DNA;Homo sapiens
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Sequence=9454;DNA;Homo sapiens
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TGGGTTTAGCTCTTTCTTCTTTGGTCCTCACCCTCTTTGTTGTCCTCTTTTGAAGACTAG
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TABLE 2
1498/3461

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Sequence=9458;DNA;Homo sapiens
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GGCGTAATCATGGGCATAGCTGTTT
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Sequence=9461;DNA;Homo sapiens
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TABLE 2

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AGGAATATAACACTGACTATTCTGATTCAGTAGAACATAAAAAATGTCTAACAAAACAGA
ACCAGACACATTATATTATTTCTACAAGTAAACAGAATATCTATTAGATATGTTCACAAG
GGTTTTATCAATTTTGAAATCCAAGTGTATAATCCCCAAATGCTGTAAGGACTTAAATTT
TATAGCCAAAACAATTA

Sequence=9464;DNA;Homo sapiens

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TATTAAGAAAAGTGTTTCCCTTCCACTCCAGACACCCTCCCCAAAGCAACCTATTAACAA
TGACTATTTGTCCAGTTTCTTTGCATAAGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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TTTTT

Sequence=9465;DNA;Homo sapiens

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AGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTG
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Sequence=9466;DNA;Homo sapiens

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ACCATGCCCAGCTAATTTTTTGTATTATTAGTAGAGATGGGGTTTTACCATGTTGCCCAG
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AGGTATGAGCCGCCGCCTCTACTTTATACTTTCTTGTTGAAGTGGACTGTATTGCTGATT
CCCACCCACACTCTCTTTTTGGATATCCGGCCCCTCCTCGAGTCTCTGGGAAGGGCAGCA
CTATAAATCGAGGGACAACTAGGGAACTCCCACCCCCACTGCTAGGCAGATCAGATTCTC
TATCCTGCTAACTGGAAATGATACAGAGTGTTCGATAGATTTTT

Sequence=9467;DNA;Homo sapiens

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GTACACATTGGAGACACACATAATAGTTTAGACAGCAATTTTTCAATTGTTTCTCTATTT
TTTCCACATTTATATCTTACTAATAGTAACACAACCATTCCCCATGAACATGCTAAACTT
TGAATGTGTAAATATAAACAATATTGTTGTAATAGTGTTTTTATACTGTCAGCTATACTG
GGTGTAAGTCCAAATGCAGCAATACACCAATCGCAACACGTTGATTTATTACTTTTAAAT
GGTCTTACTAATTCTGTAAAACTCACCCCGTA

Sequence=9468;DNA;Homo sapiens

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Sequence=9469;DNA;Homo sapiens

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TABLE 2
1500/3461

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Sequence=9470;DNA;Homo sapiens
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TTTGGGGTTCCC
Sequence=9473;DNA;Homo sapiens
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Sequence=9475;DNA;Homo sapiens

TABLE 2

1501/3461

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AACATTACTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAAT
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Sequence=9476;DNA;Homo sapiens

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GG

Sequence=9477;DNA;Homo sapiens

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Sequence=9479;DNA;Homo sapiens

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Sequence=9480;DNA;Homo sapiens

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TABLE 2

1502/3461

GGCGGCC
Sequence=9481;DNA;Homo sapiens
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AGCCACTTCTAGTCTGAGACAATTAAGAGTAGTAGTGCCTTCTCTGCACTCTCACCCCTC
ATTCTGACAGCTGAAGTGAAGGACTCCCAACTTCTGGAACTGCCCAATGAAAGTAGCCTT
GTGTGAGTGTTAGCTGGCCTGCTTTGGTCTGGGATGCAAGTAGAAATAAACTCCTGTCAT
ATTAAGCCACTAAGACTTTAGGGATATGTTGCTGTAGCATAGCCTAATGTAGCCTGATTA
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Sequence=9482;DNA;Homo sapiens
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AGCCACATCTTTCTATCGGCAAGGCATTGGGTGGATGCAAAGTTAAAGAGCTAAACATGA
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GGTGGATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGATGAAACCCCATC
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TABLE 2

1503/3461

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TABLE 2

1504/3461

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TABLE 2

1505/3461

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Sequence=9499;DNA;Homo sapiens

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Sequence=9502;DNA;Homo sapiens

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TABLE 2

1506/3461

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TABLE 2

1507/3461

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Sequence=9513;DNA;Homo sapiens

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TABLE 2
1508/3461

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Sequence=9514;DNA;Homo sapiens
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TABLE 2

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TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=9541;DNA;Homo sapiens

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Sequence=9542;DNA;Homo sapiens

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Sequence=9543;DNA;Homo sapiens

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Sequence=9544;DNA;Homo sapiens

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TABLE 2
1514/3461

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TABLE 2
1515/3461

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Sequence=9550;DNA;Homo sapiens
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TABLE 2
1516/3461

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TABLE 2
1517/3461

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TABLE 2

1518/3461

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Sequence=9570;DNA;Homo sapiens
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AAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCT
CAAGTTAAAATACCAAAAACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATC
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Sequence=9571;DNA;Homo sapiens
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
GATGGATATCTGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGTGCCCCT
ACCTAACTTTGTTGATAGGGCCCTACCTAACCAGTAAAGTAATTGGTGTGCATCCCCCAT
TTGCCCTGAATCTCCCAGGGAAAGGGCTAATAAACAGTGACTTTATAAGCAAGCAAGAGA

TABLE 2
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AGAGGGGCCAAAGGCTGAACAGCTTTTCACCCGGATACCTACTTTGGAAAGAAACCCGAG
TTTGCCATGAAGAATGATAATAGATAGTAGGGAAGCCTCCCAGGCTTGTATGCTGCTGGT
AGCAGGCAGTGTATTAACAACCAAGCCAGAAAATTTTCACAGAGATATCTCCTAAGGCAC
TGAAAATAAACTGCTGTTTATTTTTTCAGGGACAGTCAAAGCAGTCAAATACTTTTTACA
AACATTTTCTTGGACTCTTTGCTTCCCCTCTCTTACATTCTTTTCTATAAAAATATTTGT
ATTTCTCTGTTGATGAGTTTTAAGAGGATATGTTAATATACTAGCAATTTTATTTTTCTA
TTTAGAATATCCTCCATTTTTTATTTTTATTTTT
Sequence=9572;DNA;Homo sapiens
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ACTGCCTAGCCAAAAGAATTCATATAAAAGAAAATTAGCATTACAGCCCATAGGACTTTT
GGAGACAAAGACACACAGCCCGTTTTGTAACCAGTGTTAACTGAAAGTCCGATTGTGCTG
GACTGAAGAGAACACTCACCAAGCATGATGTCGGTGCTAACTGGAATTTCTTTTATAATT
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Sequence=9573;DNA;Homo sapiens
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AAAAACGAAGCATGTCTATAGAAAGAAACTGAAAAATGTTAGCATTAAGAACCCAGATGG
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AGTGAGGAAGCTTAACTGCTTGGTTCTTTCATCTCTGAAATTTAGGCAGTGACATTATTT
ATTTAGAGTGAGATAAATTGTGATGGCTCAAAGAGAC
Sequence=9574;DNA;Homo sapiens
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TGAAAACAGCTCACAAGTGTGTATAATAGGTATTCATAGCCATAATGTTTTAATCAAACA
AAAATAAGTTTATTTTCTTTGACTCAAATTATAATTATGTATTATGCGATTAAGTATGTC
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AAAAGCTTTGCAACTCACTGTGTAGGACAGTGAAGAACTTTACCTGTGGAGTAGTTAGTA
CCTCGGCCGCGACCACGCTAAGGGCGAATTCC
Sequence=9575;DNA;Homo sapiens
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TTTTTTGAGACAGGGTCTCACTCTGCCACCCAGGTTGGAGTGCAATGGAGCAATCATAGC
TCACTGTAACCTCGAACTCCTGGGCTCAAGTGATCCTTCCACCTCAGCCTCCCAAGATGC
AACACGGGTTTTTTTCCACGTTTTTTTCTTACTCAGAAAATGAGGAAACAGAAAGTAGAGC
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TAATTTACAGATTGAAGAAGCTATT
Sequence=9576;DNA;Homo sapiens
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TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTTTACTAATAGTTC
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AGGTCACATAGCTTGGAAGCGGTCAGAATCAGCAGACATTTGGCCTGGCGCAGAGGCTCA
CACCAGTCTGGCCAATATGGTGAAACCCCATCTCTACTAAAAATACAAAAAATATTTAGC
CGGGCATGGTAGTGCATGCCTGTAGTCCCAGATACTCAGGAGGCTGAGGCTGGAGAATCA
CTTGAGCCCAGGAAGCGGAGGTTGCAGTAAGCCAAGATCGTGCCACTGCACTCCAGCCTG
GGTGACAGAGCAAGACTCTGTCCCAANNNAAAAAAAAAAAAAAAGGTCCTTGGGCCGAA
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CCAAATTTGGGGAAAAAAGGG
Sequence=9577;DNA;Homo sapiens
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TABLE 2

1520/3461

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CTTGCTATGTTGCCTAGGCTGGTCTCGAACTCCTGGAGTCAAGTGAATATCTGACCTAGG
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ACAACCCAGAAATGCCAGGGAGTTCTTGCTGATGGGGCCAACTCTTGACCAATAGGAAAC
TGGAGCCTATAGATAAATTCCACCCCCTTAGAAATAAGACACTGCAAAATTTGCAAGGGA
GATCCTGAGAAAAAGAAGTTTCCCCCACTTCCCTTTTAGGGATGATTTATTTTCTTAAAA
TAACTTTTATTTTCTTAAAAGTGCAGTAACTTCGTAAGAACTGCAAATTTTGTTCGGGGG
AGAAGCTTGGACC

Sequence=9578;DNA;Homo sapiens

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ATACCCCTTTAAGGATAGAATTTAGGGCCTTGAAATTCTACTCAGTTGCTATGAACTGTG
GGGAATTTGAGACAAATAGCTTTTGTAATTGGAATGCACACTGTGTTGTAATAATGTGGA
AAGAGAAACAAAAACTTTCCTTAATGTAATGAGTTTCCATTATCTGCCTAATCTAAGGTT
TGTAAGTCTACATTGTCAGGATTTATATTGAGGAGATAGGGGGTGTCATTTTCTGTACAA
GATAGTTTTAAGTATGTTCTAAATATTTGTCTGCTGTAGTCTATTTGCTGTATATGCTGA
AATTTTTGTATGCCATTTACTATTTTTATAGTTTAGGAAAATATTTTCTAAGACCAGTTT
TAGATGACTCTTATTCCTGTAGGAATATTCAATTTGC

Sequence=9579;DNA;Homo sapiens

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GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATCACCCTGCTGA
GGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCC
GCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCATTGT
TCTCCTCCAATTTGGACCCCAGCCTGGTGGAGCATGTCTTTCTAGATAAGACCCTGAATG
CCTCATTGCATTGGCTGGGCTCCACCTACCAGTTGGTGGACA

Sequence=9580;DNA;Homo sapiens

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CCTTAGCGTGGTCGCGGCCGAGGTACACTTACTTTTAAAAAAATAATAAAAAAAATAATA
AAAATCCTTTTCCCAAGCACCCCCGTCTAAAGTTACAGCTGTATTTGGTTACTCGTTGGA
GAGGAAGGCCGGTTGCCTTTCTTCTTGGCTTCCAAGCCTTGTTTCTGAATCCTTTCCACA
CACACAACTCTTATTTCAAAGAGAAACCCCACTGGGAGACTGGAAGACAGGACTGTGAGA
GAAGGAAGTTATGTTAATTCCCCAACCCCAAAGACACCAGTGGGCACTTCAAATACTTAG
GGAGAAAAAAAAAAGCTTCCTTCTAAATGGATTAAAAGTTTGGTGATCACATTGGCAAGT
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CAGCCTGGGCTCCAAGGTAATTGAAGACATGACGGCTG

Sequence=9581;DNA;Homo sapiens

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AGGGTTCAGAATAGAAAATGATTTCTTCCAGCTTGGGGACATTTGGGAAATTGGGATATC
CTTTGGGGAAATGTAGTAATCAGTATATTCTGGGAAAACATAGTAGAGAATGAATAAATA
AATTCCATTGAATTTGGAATATGTTGTCCATTCTCCCTGTAACTAATGCTATCAAGATAA
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TGATTCAAAAGAAAACGAATAGTGTTTTAAACCTTTTATTTACAGAGACTATAATTTGTC
ACCTTCCTACCAACATATCTTAAATACACCAAGACCTTTTACAGAAGCTTAAACAAGGGT
GTACCTGCCCGGGCG

Sequence=9582;DNA;Homo sapiens

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AAGGGATAAAGTAGACTTCTAAGATTATTTTAAGTAATATATTCTATGTGCTTTTATGGC
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CAGGATGAAACAATCAGGTTGCTCCACCTCAATAAAATGGCCTTTCACACACATCATCCT

TABLE 2
1521/3461

TGCANGACACTCTGCCCAAATTATTTAACCTTGAACACAAGAACCTACCCTGAGGTTGCT
GAGATTAAATGGAATAATATGGATAGTTTAGAAGTACCTC
Sequence=9583;DNA;Homo sapiens
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GGGAGTTTGCCTACGGAAAGCGGCATAAGGACATGTTGGCGTTGCCGCTGGACGAGGGCA
ACCCAACACCTAGCCTAAAGCCCGTGACACTGCAGCAGGTGCTGCCCACGCTTGCACCGT
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TGGTACCCAAGCGCCAACGACTGGAATATGTCTTGGAAAAAATGACCGTGGAGCCTGGGC
TGGAGCCCGAAGTCCGCGTGCGGCCAATCAAACAGGTGGCACCCGGACTGGGCCTGCAAA
ACCGGGACGTTCAAATACCCACCACCAGTAGCAC
Sequence=9584;DNA;Homo sapiens
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Sequence=9585;DNA;Homo sapiens
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AGACCAAGCTTAGAAACACAGCATTTAACTTTCAAATGAAAGCAATGGAGGTTTTATGCC
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GTTACTTTGTGTTCACAAGACATGCCACTGTAACCATTATACATTATTGTAAATTAAACC
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AAACCAGCATTTGCTCTTAACAGGAGAA
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TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTTTTGTGT
Sequence=9587;DNA;Homo sapiens
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TTTTCTATATCAGAAATGAGCAGGCATTTTAAAAAATGGTTTTCATTGATGGAGAGGTAA
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TATAGGTGGGGTTTTTATATTTTCAATGTGATTA
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CCAGTTGGCCCAGACACCTCACATCAGGCTGCATGGCACACATCCATGTCTTGTTGCAAG
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Sequence=9589;DNA;Homo sapiens

TABLE 2

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TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCTCTTTCTATGCAGGATCTG
AATGTGACCATATGAGTAAAACAGCCATGATCATCTTCCCAGTGGAAAGGCCACCAGTAG
TTAACAGTTTTGAATCAACAATACACCTGCAAATGAGGACTGAGCTTTGCATGCTTCCTA
TTTCAGGAGATTTTCCATCCTTTTAAAAATTCCACACACAAATCACCAGGGCTCCTCAGG
AAAGGTTGCTGAGAACTTGAAATTTCAGACCTTCATTCAGAATTCTCTTAGTTCGTCATT
ATCTTCGTGCTCTGCTGAACAAGAACTTCCATGAGGGAATCATCAACCACAGAATCCCGC
GTACCTGCCCGGG

Sequence=9590;DNA;Homo sapiens

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ACACTCTTCTGTTTTCCTTTCTCCTTGCTTCCGGATCTGAGGATGAGCAAGAATATCAAC
ACCAATTGTTGACTTAACCTCTCTAACTGTTATAATAAGTTCCTTGAATTTCCCACTGTT
TCTTTCTTTTTTTTCTATGTAGGCTTATATGAATTATGGCATACTTGATTTATATAACTGA
TATGTTGCTAAAAAGTTACAAGAATATACTTCCTTTGATAAATTAATATCAGTGCCATTT
ATTGGAATTCTGTGGTGAAACATTCTTTAAAAACAGGCAATATTAGGGAAAAAAGCTCTA
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CAATTAAACTAATTTCTTCTTTCC

Sequence=9591;DNA;Homo sapiens

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AACCCCTCACCATCTAGTGCCTGTTTTACCCCAAATCTTCTACATCCACTGTTCCGAAGA
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CATTTGGTTAATTAACATCATGCTGCAAACACTCAAAATCACTTCAGCTGCCACTATAAC
AAAACAAAACTCCCAAAAACAAAAACTGTAGGGAAATATAAACAAATGGCAGTATTCTTT
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AGTACC

Sequence=9592;DNA;Homo sapiens

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Sequence=9593;DNA;Homo sapiens

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TGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTC
TACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTATTGGCGTGC
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TCTGTGTCTACATACACATCATTAA

Sequence=9594;DNA;Homo sapiens

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Sequence=9595;DNA;Homo sapiens

TABLE 2

1523/3461

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TGGTCGCTGGATAGTCGTCTGTGTTTCTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGT
CGCGGCGGTGTGGTTGGCCAAGTGCTGCCTAATAGTTTCAGGAGAGGATACTTCGTTGCT
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Sequence=9596;DNA;Homo sapiens

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GCGTTCCTGCCCAGAGACCACAGAGAGGTGTCTAACATGCCTTCTATACTCACAAATTGG
TTCTGATCCAGTGGAGTCCCATCAGTAGGCTCATGCACTTCCCCAAGAAGCTCCACAAAA
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TTCTGGGAGGCCGAGGTGGGTGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCA
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GCCTGTAATCCCAGCTGCT

Sequence=9597;DNA;Homo sapiens

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TTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGTGTCGTCTACATGGCA
TTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGA
ATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGTCTAC
TGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCGTGCTTT
TTGCTTTGCTT

Sequence=9598;DNA;Homo sapiens

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TAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGT
GTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGGCG
TGCTTTTTGCTTTGCTTTTGTGT

Sequence=9599;DNA;Homo sapiens

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AAACACTTGTGACTTTTGCTTTAATTCCATGAATGTTCCTGCCTCCTTGATATTTGTATT
TATTCTTTTTTTTCTCTAGAATAGAGGTATAATTGTGTGATATTTCAGAAATACGGATAAA
TGATTCAAAAAGTCACAGTTTAAGAGAATCATGTTTCTTTGATCATGAATAACTGATTAA
TAAGTCTTGCCTATA

Sequence=9600;DNA;Homo sapiens

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CAGAAACTCAGGATGAAAACCGAAGAAGAGGCCCGGACTCATACAGAGATTGAAATGTTC
CTTAGAAAGGAGCAGCAGAAACTTGAGGAGAGGCTGGAGTTCTGGATGGAGAAATACGAT
AAGGACACAGAAATGAAACAGAATGAACTAAATGCTCTCAAAGCCACAAAGGCCAGTGAC
TTAGCACACCTTCAAGACCT

Sequence=9601;DNA;Homo sapiens

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GGCATTGGACTGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATATGATA
GTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACAGTGT
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TABLE 2

1524/3461

GTCTGTGTCTACATACACATCATTAA
Sequence=9602;DNA;Homo sapiens
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GCAACAACTTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGA
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Sequence=9603;DNA;Homo sapiens
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TAATACTTTAAAATGTTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGCAGT
GTCGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACT
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TATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACA
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CCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTGTGG
ATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGTATTTGTTTATATACCA
TTATTTTTAATACATACACATGCACGCTTTTTAATTACATAATGTATATGTACCTGCCCG
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Sequence=9604;DNA;Homo sapiens
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TABLE 2

1525/3461

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Sequence=9609;DNA;Homo sapiens

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TABLE 2
1526/3461

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TABLE 2

1527/3461

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TABLE 2
1528/3461

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Sequence=9630;DNA;Homo sapiens

TABLE 2
1529/3461

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CTCACCGGTAAATAATAAAATTGGACTCAATGTAATCCCTTAGTTATTCTTAGTTTTAGA
TAGTGCTCAGTATTCCATTTTCAGCTCAGTCATGTAGAAAGGTGAAAAGAGGTTAACTCC
TGCAACCACAACAAGAAATTGGAGACCAGGCATGGTGGCTCACGCCTGTAATCCCAGCAC

TABLE 2

1530/3461

TTTGGGAGGCCGAAGCGGGCAGATCACGAAGTCAGCAGATCGAGACCATCCTGGCTAACA
CGGTGAAATC
Sequence=9636;DNA;Homo sapiens
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
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GCAGTGTCGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTT
ACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCA
AAAACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCA
CAACATTATTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAA
TACGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTAT
TGTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGNATTTGNTTATA
TACCATTATTTTTAATACATACACATGCACGCTTTTTAATTACATAATGTATATGTACCT
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Sequence=9637;DNA;Homo sapiens
GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCTTCAGTAATACTC
CACTTGCATGCAGCAGCTTACGTGGAGAGAATGGCTGATGTATTGGGCATTGTGAGAAAA
AAAAAACTGACGTTTATACTTTCCTCAAATTTTGGCAGATTTCCCCAAATATAAACAATG
GAGACAATTTATTCACACAATCATTTCCTAGAACTTCATAAAATAATGAAGTAACACCGT
AATGGTGAAGGTTGTGGTGAGGAAAAGAAGGTTGGGGAAGAAAGGAATGCTTCTTTTTAT
TTTCTACCCACTCGACCTCACCAAATTACTAGGGCTCAATTGAGCCCTTAGCAAACAAAA
CAATCAAAAATGTATTTTATGCAAATGAAGCTCTTTTTAGACCAAGTACCTGCCCGGGCG
GCCGCTCGAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGT
ACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAA
Sequence=9638;DNA;Homo sapiens
GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA
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TAAACTAAATAGAGGAAAAAAACAAAGGAAAAAAAGGGACTCACCTGCGGGCGCGTGGAA
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AATCTACCCCCAGAAC
Sequence=9639;DNA;Homo sapiens
AGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGG
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TAGGAACAGTGTCCACTGTGATTTCTTGAAGTGGAAGAACAGCTAGTGCCTAAAGAATCT
ACAAGGAAATATATGAACATAATTACACCCTAATTATTATATATGATATCTCACATTGTG
TATTAGCTGTTAATGTCCTCTGTGCCTGAATGAAGAATTAGATCTGTGACCTTTCCTCCA
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AATGAAGAATAAAGTTTTTAATNTATTCATGATGGACTTATGAG
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Sequence=9641;DNA;Homo sapiens
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ATCTTATGTAAAATAATTGTGTGTCTGAGAGAGACTAAAACTCATGCCCTACTTCTCATG

TABLE 2
1531/3461

ATTTCTCTTTCTCTTTTGTTTCCCTTTCACAGACAGAAGAATTATAGCCTCAGTATTTAT
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GATAGCATTCTGTTTCAAATCTCCTTT

Sequence=9642;DNA;Homo sapiens
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GAGAATCCATTGTTCAACAGTTTGTGATTTTGGGGAAGCATACATGTGAATAGAATATGC
TGTAGGATGGAGCAGGGAGCAAGTCACTTAGGTGGCAAGTGTCTTCCATCACTTTTTGGA
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AGCTCTTCAGATGTATCTTTCATACATGTCAAATATGAACAGTTATGGGAACTGTTATAT
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CAGTAAACACTGTGTGATACAATCAGCCTGCCGCAGATGCTCCTTATTCTATTACTGCGG
CATAATCATTTGGGTAAATCTGTGAAACTAATGCAAAATCTCACAAGGCTATTCAGAAAT
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AAAAGGATTTTTTTTTTTTTTGGCCGGAACCCCCTTTGGGGGGAATTTCCCCCCCCGGGGGG
GGCCTTTTTGGGGG

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GAATGAGAAAGGGGTGAGTTTGGAGTAGTAGCCAGGACCAGACAGAGGCTTTGGATTTTC
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TAAAAAGATACACTAG

Sequence=9645;DNA;Homo sapiens
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TATTCTTATCCCTTACAACTGTCTAAAAGGATTCTTTTTTTTAGACTTTCTCTGCTAGTTA
CCCCAAAATATTCTGTGGTAGTGAGTTCCAAAAACTAATTACATGTCACATAAAAACACC
GACCTTGTATCTATTTCAAGTTGGCCATACCTCACTCTTTCTTCTAGCATAGATAGTTTA
CGGATGTTCCTAGGATTTCCGATTCACTAGTTCCTGCTATTGTGGGTTGCTAAGTTTTAT
TTTGATTTTTGTTTTCTTTTCTAAACATGGCTGCTACTGCTGTTCATATTTGCATTTTGT
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GCTTGAGAAGTCATCCATCTCTG

Sequence=9646;DNA;Homo sapiens
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AATTAAAGGGCTAAAATACTATACATGCCACCTTTGCATTCCTTTGAGTTTTGTTTGTTT
TGTTCTGTTTGTGTCACTACAAAACTTATGTTGCCCTTATATAGCACATTTTTCCTTATT
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Sequence=9647;DNA;Homo sapiens
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AAGAGCCAGCAACAGGTCATGTGGCCTCAAGGGGCTCGTGGCCCTACGAGGCCACAGAAG
CCAGTGAACAGAGACAAAGATTGCTTCATGGACACCTGTAAACATCCACAGGGAAGCTTG
GAACCACCTGGGGAAATGAACCCTGAGCACCACAAAGTGGAGGTGACACCTGTGGAAAAT

TABLE 2
1532/3461

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CAGTAACACGGACAACACTAGCGTTCAATGACAGGTATTTTTGAGAGGATTGGTGCTGGA
TATGTATCTCTAACACTTTGAGGATGTTCTTTTGTGGGTAACATGATCCTTCTGTCTGCC
TATGGAGGCTGTGTCAGAGGTGGACATTTTCCAAGATTTGGGCTTATTTTACCTAGAATT
TCTTTAAGCATCTTAATTTCGTTTGTAAAATGGGAACTATACTCCATAACTCACAGGGCT
GTCATGTGATCAAGTGAAATCATGGATTAAAAAGTGATGATTATTGTTCATATGGACCTA
CCACTGAACTTT

Sequence=9648;DNA;Homo sapiens
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GGGCAGGTACGCGGGATGATACATTATTAGCAAAGGTCTGAATATAATGCTTTAATGATT
ATTACCTTTATACTTTTGCCTTTAGAACATTCAGTTGAATGTTCTGCATATTTCTAAGTA
TGTAGAAAATATTTTACAAATTAAAGATTTCATAGCAAGACAACTTTCAACAAAAAAGAA
AGGTTTATTTTTTTTCCTTTCTTTATTAATTTTTGGAATAATGAATTGGTATTACTGTTTT
TCAGCCAAATCCACATTTCAAAAGTAGAAGTTAAATATCACTTTAATCCCAATAGAATTT
TGGGGCGGGCTAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACT

Sequence=9649;DNA;Homo sapiens
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CTCAATGCAGTCCACCTTCAAAGCAAGAGAAATAATTTCATGAGTAACTCCAACTGCCGC
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TTAAGTCTAAAGTTCAAAAGTTTCAATGGCATTTGGTGGAAAAAATATCACTTTACTGTG
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Sequence=9650;DNA;Homo sapiens
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CCAAAGAAAATTCTAACGTAGAAATAAGGGTCTGAATATGAGGACATGTTCTTCACGTTG
GCCTCATCATAATTTTCCTCTAGGTAGGCAGGAATGTTGATGGCCTCTACTAAGTCTCCT
AACTTCCAGGAGGGTGAGTATTAAAACATGGTTTTGTAAGAGGATAACTGAACAAATGAC
CAAGTCATGAGTTTCTTCTGCAGAGATTCTCCATCCCACTCAGAAATGACACTGAAAATA
CTTCTTGGGGCAAGAGGAGAGAAGAAAGCTATCTAAGAAAGAGGAAGATTTACATTTAGA
TATTGGCAGAGACAGGCCGAAACAGTTTCTTCCCATTTTTGGTTGCCCTATGTGTAGAAT
AGAATCTACCAAACTATG

Sequence=9651;DNA;Homo sapiens
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CTTCAAAAATATTTACTGAGTGAGTCAGGTAACAAAACGATTAAAATGCTTAGCCATCAG
CGTATGCCTCTATTTTTTAAGGGCTTTTTATAAGCAAATACGGGTAGAAAAACATTGGCA
GTTTGAGAGTAAAATAAACATATATAACTCACCAACTGACTGATCAGGATAATTATCTGG
GAGTCTCTGGGGGTAAAAAGCCCCCAGTTTGTTCCATTTTACAACTCCCACCATGGCCTC
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Sequence=9652;DNA;Homo sapiens
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AACATTCCAATATTTAGGTATTTATTGGTGTCCGAGTTTCCTGGCAGTGTATGAATACAT
GGGTCGAAATGAACTGGCCTCATATTATTTCAGGGTAGCATGGCTATGATTATTAAACAC
CACAGACACCCATTTGCTTATTTTTGATTTTTGACATTCTAAGACATAGACTTTTTAAAA
AATCTTCTTAAGGGGACAAATCTCCTAATTTAAGACCTAGATAAACCCAAGATTTACCAG
TTTTTTGAAAACCAGGGATGTTACTTTAAATTCACAAGAAACACCATTCTCTTTCAGAAT
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Sequence=9653;DNA;Homo sapiens

TABLE 2

1533/3461

CACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT
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TTTTCCCCACGCTTAACAGTGAACACAGGAAATATATTTTCACTCGTTCAGTCCCTTAAT
ACTGAGCATCTCTTCTGTGCCAAGCATTGTCAACATCTAGAGACACAATGCCAAATTCGA
ACATGGTCCTTGCCCTTAAGGAACTTGGTCTAGGCCAGGCGCGGTGCTTCATGCCTGTAA
TCCCAGCACTTTGGGAGGCCAAGGCGGGCGGATCATGAGTTCAAGAGATTGAGACCATCC
TGGCCAACACGGTGAAACACCATCTCCACTGAAAATACAAAAATTAGATGGGTGGTGGCA
CATGCCTATAATCCCAGCTACTTGGGTGGCTGAGGCATGAGAATTGCTTGAACCTGGGAG
GTGGAGGTTGCAGTGAACTGAGATCATGCCACT

Sequence=9654;DNA;Homo sapiens

CACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT
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ATTATTCTTTCTCTTTTACAGGTGAACATGCTGAAGCTCTAGGAGCTAAAGTAATTTATT
GAAGGTTGGAAAGTTAGAATGGACCAGAGTCCATTTTGTTTTAATTACACCAGGGGTTCT
CTCTGAGGCATCAAAATCTTGATGGATATAGGGCATGGGGGAAGTGATATTAAAACAGCA
GCAGTAGTAGCAACAACAACAACAGCATACATTGTATGATCCTGCCTAATTTCTTCC
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Sequence=9655;DNA;Homo sapiens

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AAGGGGAGGAAGAAGAAACCACACTGAGGTAATAGGAGTTTTCACGGAGTCAGATTTCTT
AAGCAATGAGCACTTTGGAGAGGTAGCAGACTTGTGCTGTAGGATGTAGAAAATGGGAAA
AGAAAGAGAAATGCAGAGGTCAAAGAAAAACATCACCAGTTTAAAAATGTTGGTCTCTGT
GGTGGTTTAAAAATATTTTAAAATTATTTAACATATGAAGAATTATTTAACATTTCTCTC
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Sequence=9656;DNA;Homo sapiens

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CGTGTCCAATACTGTTAAAGGTGACATAGGAGTCAGCTGTTTTCTTTGAAGAAAATAAAA
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CTATA

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Sequence=9658;DNA;Homo sapiens

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TGCTAATACTTTAAAATGTTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATACTGC
AGTGTCGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTAC
ACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAA
AACTATTACAGCGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACA

TABLE 2

1534/3461

ACATTACTGGCGTGCTTTTTGCTTTGCTTTTGTGTGCTTTTGTGTGTCTGCCTATTAATA
CGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACTATTG
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CCGGGC

Sequence=9659;DNA;Homo sapiens

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TGTCAAGAGGCTAAGGCCATATGATCTGTAGGTGAAAAACCTGGGATGAGAATCAAGGCC
TCAAACTTTTTCCACTACATCACAGATTTAGGAGCAGTTAGAGGGAAGGCTTCAATCTGG
AGAACACTAACAGGCTCTAGAGATTATTGGGTCATGGTGGCTGGGACAGAAATAAGGATT
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Sequence=9660;DNA;Homo sapiens

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TTTGTCATATAGACATAAATCCAGTAGACACTGTAATAGTTTTTGGTATTTTAACTTGAG
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GCTTTTTAAATCTATATCTTAAACATTTTAAAGTATTAGCATCACCTTTTAAATGTACCT
CGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATNCG
AGCTCGGTACCAAGCTTGGCGTAATCATG

Sequence=9661;DNA;Homo sapiens

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GACCAGAGGAAAATAGATACTGAAGCCAATATAGTCTTGATACCAAAATAAAATTAAAAT
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CATTCTTACAGCTTCATGGTCTTTTTCTTCTAACAAATTAATCAGCTGAGAGAAGCTGTC
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Sequence=9662;DNA;Homo sapiens

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Sequence=9663;DNA;Homo sapiens

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CCTTCTCTAATCTTCTGCTAGTATCCCTATTAATTTAGCCTAATTAGAAGCTGGAAGGTA
GGAGAGCCTCCATGGGCAAAAAGCTG

Sequence=9664;DNA;Homo sapiens

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TABLE 2

1535/3461

GTGATACTAATACTTTAAAATGTTTAAGATATAGATTTAAAAAGCATTGTAAATTGTATA
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TTACACTTACATATGATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATAC
CAAAAACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATC
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AATACGTCCGCTGCTTTTGTCTGTGTCTACATACACATCATTAATACTATTGGTATTACT
ATTGTGGATAACAGCAGCCTCTGCGTTTAGGTGTTTTATTGTATATATTGNATTTGGTTA
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Sequence=9665;DNA;Homo sapiens

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TATACAATAAAACACCTAAACGCAGAGGCTGCTGTTATCCACAATAGTAATACCAATAGT
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GCTTTTTAAATCTATATCTTAAACATTTTAAAGTATTAGCATCACCTTTTAAATGTACCT
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AGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTG

Sequence=9666;DNA;Homo sapiens

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TTATAGCTGTCATAAAGGTAAGCTAACAACTTCCTTTTTTTCTGTGCGGCTGTGGGCTTCT
AGCTGTGTGTTGAAAACCCTAAAGAACATTCCATGCAATCGGCAGGACACAGCATAGAGA
AGACAACGCAGCAAGCACTCTTACTGCTTTCTAAAATGGGCTACTAAGAGAAACCTCTAC
AAGTTTCAGCAGT

Sequence=9667;DNA;Homo sapiens

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GTGCTGGGACAGTCCTGGTTTTGTAGATTCCTAGTGCCTAGAGGACACAACTCAAGGAGA
GAAAAGGACAGTTTGGGACAACAGGTGGGTGGGCAGTCTTGAAAATTGGTAGCCACAGAC
GCCCAGCAAGAGTGAAGAAGGACAGGTGGCTTCATTCTGTGGTTGATGATTCCCTCATGG
AAGTTCTTGTTCAGGTTTGTCTGTTGCTACTTTGAAATTTATTGATTATTTGTATTCTTG
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Sequence=9668;DNA;Homo sapiens

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ACATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACACTTACATAT
GATAGTGAATGGCAACGTGACCAATTTTTGTCTCAAGTTAAAATACCAAAAACTATTACA
GTGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCACAACATTACTGG
CGTGCTTTTTGCTTTGCT

Sequence=9669;DNA;Homo sapiens

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TCTTGTTCAGAGGTGAGGGTGCCTGAATTAAGGCAGTAGCAGTGAGGATGATAGAAAGAA
GTGGCCAGATGGAGGCTCTACACAGGTGATAGAATTGACAGGAATTTATGATTAATTGGA
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TABLE 2
1536/3461

Sequence=9670;DNA;Homo sapiens
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Sequence=9671;DNA;Homo sapiens
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Sequence=9672;DNA;Homo sapiens
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Sequence=9673;DNA;Homo sapiens
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Sequence=9674;DNA;Homo sapiens
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Sequence=9676;DNA;Homo sapiens
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TABLE 2
1537/3461

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Sequence=9677;DNA;Homo sapiens

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ACAGTTCATTTCAAAACAAATTTTAAAA

Sequence=9678;DNA;Homo sapiens

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GTCATCTAATTTACTCTATAATTTCCTACAAAATTAGAATGTACCTGCCCGGGCGGCCGC
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Sequence=9679;DNA;Homo sapiens

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Sequence=9680;DNA;Homo sapiens

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CTGGGATTAC

Sequence=9681;DNA;Homo sapiens

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TABLE 2
1538/3461

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CCCTTTTCAGAAAACTTGCCAAACCTTGTCATTATACTGTAAACATGGTCTGAGACTCAG
TTTTGCGCACAAATTTTGTTAAGCTTTAAAATGGTTTTAACCTCTTGTTGTCAGTTGGCA
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TGTATACTCATTTCAAAACACCCAGGATGCCCAAACACTTGATTTTAAAACCTGAGTCTC
CC

Sequence=9682;DNA;Homo sapiens
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CCTAGAATTTTTCAGTGTTCTAGTTTTTAAACAGTGATGTTTTTTATTAACCTATTTCAT
CCATTCAAAGACAGGCCTTTCTCCACACCACATTTTCCTCTAAAATCATGATAACACTTT
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Sequence=9683;DNA;Homo sapiens
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Sequence=9684;DNA;Homo sapiens
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Sequence=9685;DNA;Homo sapiens
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Sequence=9686;DNA;Homo sapiens
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TABLE 2

1539/3461

TAACTTCCCACTTAATCAACAAAAACAAAAACACTCATTTCTGAACATTCAGTGCATTCA
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Sequence=9687;DNA;Homo sapiens
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GAAAGGGATGAAGAAGCCACCTAAGAGAAGGAATTCCAAGCACAGTGAACAGAAACCTCA
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Sequence=9688;DNA;Homo sapiens
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Sequence=9689;DNA;Homo sapiens
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Sequence=9691;DNA;Homo sapiens
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TABLE 2
1540/3461

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Sequence=9692;DNA;Homo sapiens
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Sequence=9693;DNA;Homo sapiens
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Sequence=9694;DNA;Homo sapiens
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Sequence=9695;DNA;Homo sapiens
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Sequence=9696;DNA;Homo sapiens
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Sequence=9697;DNA;Homo sapiens
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ACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATTCAGCAAC

TABLE 2

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TACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGACCGCTG
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Sequence=9698;DNA;Homo sapiens

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AAAAATTAATATATTTTTCAATGCTCTTTGAGCCACACATACTCAAAATTGGGTTTTATC
AGCCGTTTATTACACTGTGCCTAAGTCCATAGTAATCTGCAGTGAATCATTTAGACTGGA
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TTTCAAATACTGTGTGATGGCAGAAAACTCT

Sequence=9699;DNA;Homo sapiens

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TAGATGTGATCAGGTCAGGGGAGGAAGAGAGGTGTCCTTCCTTGTATGTCTATGTCTCCC
TGTGAAGAAAGTTTTCTGAGAAGCCTGCAGAGAGTTACTCCTCATATTCCCGCAGCCAGA
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CACATAGGGAGGGGTA

Sequence=9700;DNA;Homo sapiens

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AGCTCTCCAAACATGAGATTTTTGAGCTCCAATTGCAGCAGATGAATGTTTCATTTCATT
CAACACATTCTAAAACATCAGGAGATCTCAAATGTGCGTAGAAGAGACACTTACCTACCG
GGCTTGCACAGCCCTGCCCTTCACCCGTTCTCACACATGGCTCCTTCCTACCCGTCCCTC
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Sequence=9701;DNA;Homo sapiens

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Sequence=9702;DNA;Homo sapiens

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Sequence=9703;DNA;Homo sapiens

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TABLE 2

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Sequence=9704;DNA;Homo sapiens
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Sequence=9705;DNA;Homo sapiens
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Sequence=9706;DNA;Homo sapiens
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Sequence=9708;DNA;Homo sapiens
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TABLE 2
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CAGCACACTCCTGGTGGCCTCCTGTTTCGTCAGCAGGGTATATTGGCCACAAGGATTCTT
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CT

Sequence=9709;DNA;Homo sapiens
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CACCATCACCAACCTACCATATTCCCAGGACAAAGCCCAGCCAGGCACCACCAATTACCA
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GAGTTATTTTTCTGACT

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Sequence=9713;DNA;Homo sapiens
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TABLE 2
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Sequence=9715;DNA;Homo sapiens
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Sequence=9717;DNA;Homo sapiens
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TABLE 2
1545/3461

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Sequence=9720;DNA;Homo sapiens
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Sequence=9721;DNA;Homo sapiens
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TABLE 2

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TTTTGATATTTCAGCTGCAGATTTTTTCAAATATACAATGACCTGAGGCCAAGAAAGTTA
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Sequence=9726;DNA;Homo sapiens
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Sequence=9727;DNA;Homo sapiens
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Sequence=9728;DNA;Homo sapiens
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Sequence=9729;DNA;Homo sapiens
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ATACAATGACCTCAGCAGATTCCAAGGCTTCCTAGAACATTCCAACAAAGAACGCGTGGG
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G
Sequence=9730;DNA;Homo sapiens
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TTGCCCAAATTTCTTTTGGGTCCTACT
Sequence=9731;DNA;Homo sapiens
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ATAATAAGATCGTAGAGCTATTTCTTGAGTCAATTTTGCTATGGAATTTTTTTACCATCT
TTAAACATTTGAGAAATTCAGCTTATCAGCCATATAATCATATGCTTGTTTAATAATTTA
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Sequence=9732;DNA;Homo sapiens
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GCGGCTTTGGATGCCATGCTGAGTTCTTCAGACGGCAGGCGAAAGGTAGAGGGGAGCCAG
AGAAGATTTTTAACAAAAAAGTGACATGCTCATTTATGTTTTATTTCTAAAGACGAGAAG
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TABLE 2

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ATGCTAGGGCAGTGGTGCAGAGATCAGAGTGGAATTCGAGGGACTACAACAAGGAGGTAA
GTTAGGAGGCTGCCAGCCATGAAGCCTTAAACTAGGAGGGTGTGGATGGAAACAGAACAT
GGTTAGGTGGGAGATACTGAGTTAGCTGAATCAATGCAACTCAGTGACCCATAGGGTGGG
GATGCAGAGGGATTATGA

Sequence=9733;DNA;Homo sapiens

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AACAGTTAAGAAGAAGTGGAAGAGGGATTTTACTCCCAAGTATTCCGACTTCAGGGCTTG
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Sequence=9734;DNA;Homo sapiens

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TGATACTGAAATCTGGATAAAAAATTAGGCTTCATGTTTTCCATTTAAGTCTCCATACCT
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Sequence=9735;DNA;Homo sapiens

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Sequence=9736;DNA;Homo sapiens

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AAAAAGGG

Sequence=9737;DNA;Homo sapiens

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G

Sequence=9738;DNA;Homo sapiens

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GTTCCAATCCAGTGGTTTCGAGATTCCAAAGGCACCTTTCTCTCATGACCCAAAGGAGTA
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TABLE 2
1548/3461

GGCTGGGGCAGGGAAAGTCTTAACCCAGCTCTAAACACTTTCCAGAGGTATTTTGTGGGG
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Sequence=9739;DNA;Homo sapiens
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AACCCTCCTTGAACTTGGAGCTGTGGAA
Sequence=9740;DNA;Homo sapiens
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Sequence=9742;DNA;Homo sapiens
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Sequence=9743;DNA;Homo sapiens
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GGGGCCCAAGGCTTCAGAAAAAAAAAAAAAAAAAGGCA
Sequence=9744;DNA;Homo sapiens
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Sequence=9745;DNA;Homo sapiens

TABLE 2
1549/3461

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AGGAAATAATTGTTG

Sequence=9746;DNA;Homo sapiens
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ATCCTGA

Sequence=9747;DNA;Homo sapiens
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GGATTTTCCTGGTGTGGGCACAGAACTATG

Sequence=9748;DNA;Homo sapiens
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GTACCTGCCCGGGCGGCCGCTAAAGGCGAATT

Sequence=9749;DNA;Homo sapiens
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CAACAGTTTGAG

Sequence=9750;DNA;Homo sapiens
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Sequence=9751;DNA;Homo sapiens
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TABLE 2

1550/3461

GGTATTAGTCAATCTCCAGATTATACTGATCTACTGTCTTAAAATTAATAAAATCTTTAT
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AAGAGAGTAGTTGCTTTAATAGTAATTAAACTACTCAACAAAGGTAGCACAGAGCTGCAA
TTCTGTGCATGAA

Sequence=9752;DNA;Homo sapiens

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Sequence=9753;DNA;Homo sapiens

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CTCACAGCCTCGTTCCTTGCCCAGTCTCCAAACTCACTCCTTCCTTGACTGTGTTTCTAA
TACTC

Sequence=9754;DNA;Homo sapiens

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Sequence=9755;DNA;Homo sapiens

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Sequence=9756;DNA;Homo sapiens

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AAATAAGTTCAGTTCTAGGTGGAGCAGACTATATTTACCACGGCAGTCTTGGACAATAAC
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TABLE 2

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AGTAGGACTCACACACAGGTAATGCTTGTTCTTTTCCATAGACGGCTTTTTTCTCCAACC
ATAACTGTTTTGCATAACTTGGCATTAAGTAGAATGTAAAAAAGAGGCAGTAATTAATAA
ATAATGCCAATGGGTCTCAAGTTGCAAGATAATTT

Sequence=9757;DNA;Homo sapiens

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Sequence=9758;DNA;Homo sapiens

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Sequence=9759;DNA;Homo sapiens

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Sequence=9760;DNA;Homo sapiens

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Sequence=9762;DNA;Homo sapiens

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TABLE 2
1552/3461

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TABLE 2

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Sequence=9771;DNA;Homo sapiens

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TABLE 2

1554/3461

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TABLE 2
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TABLE 2
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TABLE 2

1557/3461

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Sequence=9797;DNA;Homo sapiens

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TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAGGTTAGCTATCTTTA
TAGAACTAAGAACTGTGAATTTCAGTGACTCAGCAATCAATAAAAAGTCAATAACACACA
CATCTTGTAGATGATGGTCATTTTAAATTTTCTCAATGAATAGTAAAGAGAGATTAACTT
AGTTATATTTAAAGCAAATAGAATCAATTAAGTATAAAGAATGAATATTATAAATTGATA
TATAGAACGACTATTAGAAAATAAAAATGTTGGGCTGGGTGAGGTGGCTCTTGCTTATAA
TCCCAGCACTTTGGGAGGCTGAGGTGGGCAGTTCACTTGCG

Sequence=9798;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAATGCCAGAA
GTATTTTTTTTCTTTCAGCTGTGAACCAGCCTGTTTTGTTTGACAAGCCTTTCCAGATTC
ATGCNAGCTCAATCACGTGCCCTTGTTGCCAGTTTGAGAGTNNGAACCTATTATTTCAAA
CTTGTTGGCCGTGTACCAATTTTTACANAAACTGAAAGTAGCACTGTGAGGTGGATTGGA
CCTAGTGATGAGGTGTCTACACTTGCATCCTTTTCTTCCAAGAGAATATTCTGACACTCC
AACTCTAGAAGTCATGTCATTAGTAAAATGAAAATAATAATTGCTTAATCACTGTTTAGA
ATTAGTTCATACTTCTTCAGAGCTTGAAGCCTNCACGACTCAACATCAGATCCATGGATA
GTATTACTATACCTTTACCCAAAGACTGGATTTATTTTGTAAAAATATCAGAATGGGTCT
GGGTCCCTTTAAAGCAACTGAC

Sequence=9799;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT
TCGAGCGGCCGCCCGGGCAGGTACGCGGGCAGTTGAATTTGAGGCACTTGAGGTGTCCAA

TABLE 2

1558/3461

GAGACAACTGAATGATCTAGAACTCAAAATAGAGATCTAGGCCAGAGATAGAAAGAGAGC
ATACGGGGATAACTGAATCCATGGGGTTGGATGAAGGTAGCCATGAAGACTGCATAGGAA
GGGCAGAGCCCTAAACAATCATATTTAGGCAATAGAGTATGAGCTGCTCACAGAGGAGAT
TAAGAAGGAACAGCTAGAGAGATGAAAGGAAAACAAGGAGAATGTGCTGTATCGGCACCG
AGGGAAATGAGTGTTTAAAAAAATGACAGAGTGGGTAAATTTCCCAAAGGTAACTAATTG
AATAAAGACTAAAAGGTGTGTTCAGATAAAGCAACAAGGAGGTCCCCAGGTACCTCATCA
AGGCTGATGTCTGTGCAGTGCGGGGGCAGAGACGTCCAAGGTGATAGTGAGCATGGATGC
CATTTCCTACAGCTTAGCTAAGACGGAAAGG

Sequence=9800;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGTAGTCTATAAA
TTAAACAGCAATTGATTCTGAAAAAAACATGATTGTGGCTTAGTCCAAATATTAATATAT
GTATTGAGAACCTGCTATTGTGGACAGTGGAATTATGGCAATAAATAAGATAGACAATGT
CCCTACCCTCAAGAAATATAGTCTATGGCATAGAGAGAGACTATCAATAATAACCTTCAC
AAATAAAGATAGTGATATGTGTAATAAAGACAGTATATTAAAGAGATGTGCTAGAAAGTG
ATGATAGAAGAGGAAGCTACTTTAGATATTCTGAATAACAAGAAGTCAAGTGAACATTTG
GGGATCAGAGCAATCTACACAGAGAGCCTAAAGTAACTTTAATGCTATACACTGCAGATT
TTTAAATCCTGACCTCACCCTAAAAACATAACAAGTAAATTAGTCTCAATTCAGTGAGAT
GATGATGATGGTGAC

Sequence=9801;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT
AGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCTGTTTT
TCTAAAAGATTTCTCACATTGGCAAACTGAGAGATTTTCTTCTGGAACACAGGAAAGATT
ATATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAACGAG
ACCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATTCAGCAAC
TACGAACAGAAGCCCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGACCGCTG
TTTTGGATTTCATTGAAGATTACTTGAAAAGAATATGTTAACTTTACTCAGAACAGAGAG
CCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAGAACCAA
ATACAAAGACAAGAGAATCCACATCTTCTGAGAAAGTTTCA

Sequence=9802;DNA;Homo sapiens

CACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT
ATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATTTTCTTTAGAT
GTGATAATGATGTTTGGCAGTGGAATAGTATAATGTCTGGGATTTGCCTTAAAATAGTTC
AGAGGAGAGAGCTTGGTGATAGCTGCATATACATATGGGAACATAATATTCTTTCTCTGT
TTTTATGTGTTTGATAATTCTAATAAAAATGTTAAGAAAAGATAAAAATGACAAAGCCAA
AGATAGTAACTTATTTAGAATTGAGGTTGTGTGATGGAGTTTTTACTTTAATGGGAAGAA
CTTAAATAAACTGAAGGTCTGTCCTAAATTCTTTGGGTGAAGCTTCAGTCTATACCTGAC
TACTTTTTAGTTGTAGCATTGTTAAAAGCATTAAATGAGATACATGCATGTTAAACACAT
TTAAAAATGCCTCTATTTAGAACCAATTCCAGATTTGTTAGCTATTTATTTTATTCCCA

Sequence=9803;DNA;Homo sapiens

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TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGGACAGCTAGCACCGTAAA
GACAGTTTTTAAAAAATGTATAACTACAGTAAATCTACCATCAAAGAAAGTCAAATACAA
CGTTTTCGAAGACAACTCAGCTATTTATTGTAAAGTCCTAGATATTTACACAAAAATGTA
AAATGTTGTATTACTGTTTATATACATCCAAACTTTTTTTTTAATGATTAAAAAGTCTCTC
GTAAACATTTTATAAACATGTTTAAAAAGTGGTATATTTTCTATGCAGCTTAATTTCAGA
TTTAATTCTAATTTTTCAAAACTATATGCATACTGAATAATA

Sequence=9804;DNA;Homo sapiens

TACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT
ATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCAGCCATAATTCCTACA
GAAGGTCACTTAACAAAATGTGCAGTGTGTGTGTTTTCTTAGAGGTTTTGGTCTACCATG
TCTTTTACTAGAAATCTATTATGTCATGGTTTTTCAAGTTGTATGCAGCTGATAAAGGAT
CTTACATGTCTAATAGTTAAAGATAAAATACTGAGTCACTAAGTCAACTATATATACTGC
TGTTTTCTCAGAGACTGTCAGATTTGGTGAGTTTATGAGCTCACTTCATAAATAGCATTT
CCATTTATGGTAAGCCTGATGCATATTCAGTGACCTATTGGATTCTAATTCTTTGGTTGA

TABLE 2

1559/3461

ATTGCTCCGTAACTGGAATTGCAGTAGAGTTGAACTTCAAGCACCTTATAATGGGGGACT
ATGTGAGCTGCCACAGATTTTAAAGATCAGATGAGGGAGTTTTGACATCAGCATAAAAGG
AAGTGTGTCCTCTTATATTCCTAAC

Sequence=9805;DNA;Homo sapiens

CTATAGGGCGAATAGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCCATGTGTTTGTTTT
TTTCTTTTTCAAATTTTTATCCTTTCTTCACTCTGCATATACATCCCAAGATGCCTGTCC
CCTCAGTGCTATGTTTATGTCATCAGTGTTTGACAGAAGAGAGTGTCTTGGGTAAGGGTG
TCCAATCGTCATTCTTATCAGGCTAACTGTCCTGAAGAACTGTTGTTCTATTGTTTGGGT
CTTCTTGCTATGAATTTATACTCATCATTTTATTTGCATTTGACTTTGCTGGTAGATAAC
ATAGAGAATGAACTCTTGATCTGCTTGACAGTTGTATATTGTGCTATAAATTAACAAAAT
GCCATTCTTATTACAGTTTGACTGTTAGTGCAGCTTCCCTGTGAGCACAGGACATAGATG
TAAGCTGGGAAGGTGCCTGCCCGGGCGGTCGCTCGAAAGGGCGAATTCCAGCACACTGGC

Sequence=9806;DNA;Homo sapiens

TCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGC
GTGGTCGCGGCCGAGGTACTTCTACCAAAATCAAAAGTAAAAGTTGAGATTTTGTTGTGC
TAACATTTGTCGTTAGAATGTATCNACCAAGTGTGTAGAATCAGAGTATGTGTTTTTATT
TTAGTTAGTAATGTGGGTTCATGCACATCTTCAGAGTATTTCTTTAATCTTTTTGTGTTT
AATTTAATTTTTTGAGTATTTAAAGTATTTACATGTTCAAAACTCAAAATTAAGTGAAAA
GTAGTAGTCTTGCTTCAATTTTACTACATCACTCTCTACCTATCCACCAAATATATAATA
AATATGTTCATTAGCATCTTGTTTTCTCACTTTTTTAGCATTTACATTATATCCTATAAT
TCACTCCATATCAGCTAAAAAATAATATCTTTATTCCTTTTATTAACATTCTCTTTTGAG
GTAGTTATTGAATTACATGTAGTGGCAATAAATAATCAGATTAAAT

Sequence=9807;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA
TGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTTTTGATATTGT
AGCTCTGCAGGCTGTTGGGGTAGCTACACATGGTGATGTTCTCATTTTCTAGTAAATCAG
AAAGAATAAGATTTAGTATAGAGAAAAATAATAGTTAACAACATTTTATAATTGTTTTAT
CTAGAATTTTTGACATATTTGTCATTCTTAAAGGCATTATAAGAAATTCCTGTTGTATTT
GTCTAGCAACATAATGAAAGAATGATGCACATTTCTGTTTATTATTTTATAAATATGGCC
TAAATGCAGTATCTTTGTTATTTAGTTTATCTGTATTAGTGTAGATTTTATTATTAATAT
TGTGGTTACATGGTTACAATCTGGATCTTAGGCACAGTATGGTTTGCAGTTAAAATACGT
CACTTTGTTTCACTTAGTCTAGGAAGCACTTTTAAAAAATTAGTCTGACATATTGACTTT
GCTAACAATACATGAAATGACATTATCATCTCACATGTATAGAACATTTACATT

Sequence=9808;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATCTTCTGATTCAGTCACAGAGAG
GTAGGCCATGAGGGAAATAAGGAAAAAAGTAGAAACAAGAAATAAAGAAAAATCAGAAAC
AATTTAAGACCCTATTGGGGTGCAAAAGGGAAGTGGAAAGAAGAGACAAGAAAATACATA
AAGGGGTTAAAAGAGAGGAAAATAATTAGATAGTATTGCTGTTGTGTTTTGGAAAAACTC
TTAATTAGAAGGAAAGGAACTAACTTTATTAAGCTACCTCTATGTAGGAAAACTAAATTA
CCAGGTGATGTGGGGGTTTTTTTTTGAAAGATTTTATTTCAACTTACAGGCATCACCAAA
ATTATTTTCCTCA

Sequence=9809;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT
AGCGTGGTCGCGGCCGAGGTACAACGTGGGCAAGCATCTGTGCATATGAAATGCTGTTTT
TCTAAAAGATTTCTCACATTGGCAAACTGAGAGATTTTCTTCTGGACACAGGAAAGATTA
TATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAACGAGA
CCAGATAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATTCAGCAACT
ACGAACAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGACCGCTGT
TTTGGATTTCATTGAAGATTACTTGAAAAGAGTATGTAAACTTTACTCAGAACAGAGAGC
CATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAGAACCAAA
TACAAAGACAAGAGAATCCACATCTTCTGAGAAAGTTTCACAAAGTCCTTCAAA

Sequence=9810;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT

TABLE 2
1560/3461

AGCGTGGTCGCGGCCGAGGTACCCGGGTGACTAGTATCCATTTGGCCCATAGTGACTACA
GCAGTATTGACAGATACTTTAGGATTTGATCATTCAGTAGTCTTCTTACTATTTTGGTAG
CAGGATTTTATCCAAATGTTGACCTGGAAGTTCTTAATTGTGTTTTCAAATATTTGATTA
TTTTAAGGTAGTGGTGTTTGTTTAAATATATGTTATCAGTATTTNTGTTGTTGTTTTCAG
CAAGAGTGTTGACCTGAATAACCTAGCCTGCTATTGCCAGAAACCAGAAGCCTCTGAGGG
AGTTTATAATTGAGTCTTAATAAAAGCATTTTAAAGATGAAAGACAATAATAGCGGTAAG
TTATTCTGATTTAGAGTAGATGAAAGAGGTCAAGGCTTAATTGGCAAGGAACTGCATAAT
GGAATAGTAGCTACATTTTAAAAGGAAGTGAGAC

Sequence=9811;DNA;Homo sapiens
ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC
GCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAAATAAACAGAATTTTATGGAGGCTACAC
AGTTCTATTTGTTCAAATCAAGTATTATCCTTTTTTAAAAAAATGCCACTAAAGCTAGTTT
CCTCTATCTGGATCCCCTTTGCTGTGCAGTAACAATACAAGGCCCACAAAAGAGGGCTGA
GTTCCTTCCCACATGCACTGCTTTTTCTCCAGTAATAGACTGCATTTTGGATGACTGCCA
GGCAACAATAGTTGACTCGTGCTGGCCAGCTCTCAACATAGGTCTCTGAAGAAGCTGGGG
AACAGGGCAAATTGACGCTTCTAGTTTTCTCTCAATAATCCCTCCCCAGGGTTCAGGTTC
ACA

Sequence=9812;DNA;Homo sapiens
CTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGA
GCGGCCGCCCGGGCAGGTACAATCTTGGATTTCCAATGACAATAGTAACCAAGGCTGAGA
GGAAATCCTTCAGGAGACAAAATCTTTACACTTGGCCTGAGACATTCCATTCAAGTGTGG
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TTTTTTT

Sequence=9813;DNA;Homo sapiens
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CCAATGGGGCCATCTTGTGATACATGCACTGTCACAGGAAAAGTTTCCAGGAAAAGTCAA
GCCAGGGCTTCACAGAAGATCAAAAGAAAGAGACAAGGAGAAGCTAAGTGTATTAGTCAG
GATTCTCTAAGGGACAGAACTAATAGAATATATATACACACACAAACACACACACACACA
CATATATATACATATAAATAAAAGGGAGTTTATTAAGGAGTATTAACTCACACAATCACA
AGGTCCCACAACAGGCCGGGCCATCTGTAAGCTGAAGAACAAGGAAGCCAGTCTGAATCC
CAAAGATGACAAACTTGGAGTTCA

Sequence=9814;DNA;Homo sapiens
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AATGTTGCTTGCTCGGAATGGCCCTCCTGAGCAAACAACAGACGGTGCTCAAAGTAACAA
CTGGACTTAATAAAAGGAGCTTACACGAAGGAGGAGCTGAAGGCTACTGTGGTCGTGTGC
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GATTCTTCCTGCGGTCTGATCAAGATTCTATGCAGTTAACTTTGTATCCAAGGATCTATA
GCCAAGAAATTTGGAGCTCAGTTTCAAACGTAAGTATTCTGGGTCCAAATTTTCTGCCTT
TTCCCTTAAAACAACTGAATTTTATTTTATTGGGAAACAGAAATACAGAATTCAAGAGTT
ATTAGATATTATAAAATCTAACACTCTAAGTTAACATACAAGGAGACATAGCGTTTCAAT
GACAAATGTCATACATAAAACTGCTTCATATCAGAGGCAGAAAGAGAGCTTGCTTTTCCT
GTAGTTTCTGTAACACAGAGCTGTCCAGCTCATTCTATGTATGAAATTGATATATAATCA
AGA

Sequence=9815;DNA;Homo sapiens
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AGTGCAACCTTTATTTCTCCTTCATGTTTTTAAAGTCACCTTCTTAATTCTGGTAGAACA
TAACTCAAACAANCTGAAAATGTTAGGAATGGATTTACAGTCCCTCTGGCTACTCTCTAT
CTGGGATGGAAAAGAAAGTGATGCTGGAGATAACTTTTCCTGCCATCAAGGGACATCTAT
AGAGGAGAGGCAATTAATTGTAATGTGCCAACTAGTTTTGATTATTCAGGGACTTGTGAT
GGAATTTGTGGATTATTCAGGTCCCTGGTTTTCTGTTTTGGCTAATTTCACTGCTCAGTG
GCGCCTCCAGAGGTCAGGGACAGCTATTCTCCTATGGAGTGTCCCCAGAGAGACAGTGGC
AAAAGAACCACCCCCTTTTGAGCAACTACTCTGTGTCAGACACAGGGAGGATTTTTTTTT

TABLE 2
1561/3461

AACATTTGTAGTCTTTCATTAATTTCACAACAAACCTCCATTCTATTTT
Sequence=9816;DNA;Homo sapiens
ATACGACTACTATAGGGCGAATGGNNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG
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CCATCTCCTGTTCCACTGTTTAGTGAAAAGAATCCTCCATTGTCTTTTGTTCATTCTCTC
CCCATCAGTGGACATGAGAGAAAGATCCCATAGCCCTCTTGGTCTTGGTTGGAACAGGAG
GAAAATGAAAACTGGACATCCATCTTAGGACTTAATCCTACGGAGACCACAAGCTGGAAG
AGGCACTCAATACTAGCATGGCTTCTGTGGCATTTTGATGAGTAGTATGGGCTCCACACT
GAAATATTAATATCTTATTGTTTTGATGATGATGATGATGTTCATTGGCCCAGGGCAAAA
GGTAAAGGTTGTGTTATAAAGCTGATCTATTCAATATCTGTGGATGTTAACTCCACCCCA
TCCCCTTATTGAACAATTACGATGCCTATAAATATTGTAT
Sequence=9817;DNA;Homo sapiens
TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC
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AAGATTTGATGAAAAAGTGCAGTTCTGTGTTGACTTTAGGAAACATTTTCTCCGCTAATG
TCCTAATACTCAGCAAGCAAAATTGGAAAACAGTTTATATTGCTGTCAATATGTATAAGC
CATGTCTCCCACCATTACTTTTCCATATTAAATATAGAAAAAAGCAGAATCCCATGTGTC
CCAGTGACTGTCAGAAATCTTCCCTCTTCATTAAATAAAAATTTAAATACCACATTAGGG
CATTGTACTGAGTGTTATTATACAAACAGGTTCCTTTTGGAGTTCCTAGGCATTCACAAT
AACTGTAAAACAATAGGACTGTAGCAATCTTTTGTCCTACCTCAGTGACTTGATGTATAT
ACTAGGAACAGCCCTCAGTCTG
Sequence=9818;DNA;Homo sapiens
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TTGCAAATCAATAGCTCTCATTTTACTTAATAATGCCTGATATTTGCATGTTCTTCCTCA
AATGTGTCCAACTGCTTAATTTTTTCTTCAAGTTCCTTTTCTTTTTCAAATACTTGGGTT
TGTAATTGGTCAAGTTGTGAAAAATCCCAGTTTAGTCCAATATAGTCAAACACTTTTTTA
AGTTTCAATACCTGTAAGATGCAACACTTAATAGCGGTGAGTCTGTCTTTAAGATTATAG
ATCTCCTCTTTAACACCTTTATTTACTTCTTGATTAAGTAATAGTTCATTGCGCTGTATA
CTGTCAGCCTCCTCCTGAAGCGCTGATGTTTTTTCATGGAATTGTCTGCAAAACTTTACC
TTGTGTTCCACTTCATTACATGTATTCTGAATGAATCTTTGTATTCTGTTGGTCCTAATC
TTAAGATTTTTCAACTGATCTTCCAGAAATAATCTTTCA
Sequence=9819;DNA;Homo sapiens
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TAGGCTCTTTTATTGAATCTATGAAATGATTCAATCTTTCCCAAAAGGTATTTGCCAATA
TATACAAAGTATTTTTAAAATTCTTATGTTATTTAACTAGTAACTCAATTTCTAGGAATC
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CAACTTCACATTCAAATTAATACCAATCTTTTTTCTTCATGAACATTTATCAAACATTAT
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GTTATATGCTATAAAGTGCAAAAGTAAAAAGAAAATGTTTAAATACATATAAATCATATT
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Sequence=9820;DNA;Homo sapiens
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ACACACACACACACACAATTTTTTTCTTGGTAGCACTTAGCTATCCTCATATCCTTACAG
ATGAGGAAGTATTTGGTTATCCTTCCCTAAGTCACGTAGCTAGTAGGTGGCAGAGCTAGG
GGAGAGGAATATCAAATTAAGTGCTTTAGGCAACTTGTTTCTCCTACACTGCAGTGCACC
TTCCCCTCAAACACTTACGATCAGAGACTTGTTAAGATGGTCTTATCACGCTAAAGCTAA
GTCAAATGGGAA
Sequence=9821;DNA;Homo sapiens
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GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCAACTACTAG

TABLE 2
1562/3461

CAAACATAATTAAGGGATCATTGTATTGTCTAGGTGCGGCTTAGTAGAATATGTAAAGTT
TTTTAGCTGTCCATTACCCTGGTATAATCTTGGAGCCATAACCCAAAACTATATTCCTGG
CAAGCATGTTAAGAAGTGGAAAATATGGGTTTTCAAATCTTGTGGAAATACTAGCCTTTC
AAATCATGGGTGAGAAAAAAATGCTAAATTATTTTCTTACTATGAGGAAGATTTCTTGCC
ATTTATCTATGTATACAATATTGTATCACAACAGTTAAGGTATAATATTTCTACTCAGAA
CAACAGATTACAAAAAAATCATATGCCCCTTTCAGTGTTCATATTGCTTTGTTAGGCCAT
CTCTCAGAATATATTGTGTAAAACCAGAAGTTTTAGTTTTGTGTTTAAAAATGAATGCAC
TATGATTATACCGGAATATTTTCTTTAATAAATTATGCCCGTGTGAC

Sequence=9822;DNA;Homo sapiens
CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTGAAATAAAGA
AATAAACACTGTAAAACCCAACCCCCAAATGCTTGAAGATCACTCCTGGGCTGAGTTGTT
GGTGTTTCAGGGTTGGACATTTAAAGGGGATTTCATGAAAATTAAATTTCTTGGGTTTGT
TTTTTCAAAGTTTTAAAATATATGTTTATAGATGACATGGATAAAATGAACTAAGGTAAT
ATAAATAGTGCCTTTCAAAGAGCAATAAAAGAATGCCTTTGGTCCATAAAAGGAGAGATT
ATCAAAAAGAATAAACTTGATTAGAAGAAATAAAAGTAGATTT

Sequence=9823;DNA;Homo sapiens
GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT
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TTTATTATTCATCTTTATTGCTTTCATTGCACATGCTGTTAACTTCTTATGAACTCTTTG
TTCTAATAAATAAGCATATCCAGGTTTTTCATAAATAAATGAGGAGTCTATAAATTCTTA
CTAGTTTTAATAGAAACATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGA
AAATGTTTTCATTTCCTTTATGTTTGAATGTTCCTTCCAGGTCTTTGAAAATATACATTC
TGAGTTGAAAAGCTTTATAATAGGTAAAACTCATTAACCCATATACTTT

Sequence=9824;DNA;Homo sapiens
CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATTCTTTCATCTTTTCT
GTTTGCAATTTTGCATAATAAAATGCTAAAGGGAAAACATTTGATGAGCAGAGTATCAAA
CACAAGAGTAATAATACTACTACTTACATGAAATTCTAAAACAAAGAAAACTCATCTATG
ATGTCAAAAATCAGATGAGTAGTTGCCTGAGGCAGGAGATGTGGGTGGCTGATGGCAAAA
GAGCACAAAGGAACTTTCTAGAGTGATGGAATGTTTTATGTCCTGATTGGGGTGCTAACT
GCATGGACAGACACATTTGCCAAAATTCATCCAACTATACATAAAA

Sequence=9825;DNA;Homo sapiens
ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCACTGCACACTT
CTAGGAGTCTCTCTCACCTCTACCCTGTTCCTGGTGGAGGACTATGAAATCCTCAAAAGC
AAAAGTGACAGTTTATTTTCTCTGAACAACTTCTGCATATACTTAGTTGGCTACACAGAA
ATCAACTGATCCTGAATTTGAATTACCCAGCCTTTAGAATGTGGGAGAGGCCTTCCTTCA
CAGTGCTGTTAAGCAGACTGGAGACTATCTACGTAAAACGCTAGCACAGTTGCTGACATG
TAGCAGTCGCTCAGCCAAATGGAAGCTTTTATTATTACCTGTTTTTTCAACATTCAAAAA
CGTAAATAACTATGAAATGAGAAATTGGCTATACAGTTTTATCTCAAGAAAATCTGTATA
TTGTTCTTAACTTCCTAATATGTATAAAATCATCATTTCGTGACATTTACTAGTATTTCT
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CAGAATGGAATGTAATAAAGCAAGACTCTATTTGGATACTTTG

Sequence=9826;DNA;Homo sapiens
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ATTCGAGCTGTCACTGGCATTATCAGACTTTTTATATCAGATTTTATTGATGATAGATGA
CATAAATTGNGTTCTTAATATGTTAAGCATTGTTCTGTTAATTAACTTATCTTCACAGCA
ACATAAAGAGGGAGGTAGATTATTACTTGTATTTTGGAGATGAAAAATGCCGACATTGAG
GGGTTTAGTAGCCAGGCCTCAGAGGTCCTGTAGCTAGCTGCTAAAATACC

Sequence=9827;DNA;Homo sapiens
ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG

TABLE 2

1563/3461

TGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCTCATTT
TAGACATATTCTCTATGCAGTGGAGATAAATCTATTAAAAGGTGCTAACAGACTCTCTTA
CAAGTGTAAGAGGAATCTACTGTTGCTATGTTAGTGTGAATGTTGAAGGTGCAATTATCA
CATTGTTTATTAATTGTATAACAGATTATTACTAGAAAGGTTNTTGNTGCTAGTCTGGAA
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Sequence=9828;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG
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GTCAAAACTGGAAGATTCCAATGGCCTATTCCAACATTTCCCAAAATGTGTTCCACACAA
TACTAGTTCCAAGAGATAGACAGTGTTAGCTCCCATTGAAGAGGGGCAGGGGGAGGGATT
TATTCATTCAACAAGTATTTTGGTTAAAAATTTGGGAAACAGTTCATACTGTATTCCATC
CTGGAAAATCATAATGTATATCAATATTTTAAAGGCTTAGAGAAGTCTTATAGTAAACTG
TCTTAGTTTACTTTAGTCAACTGAACATTTCCCACACTTTTTGATATAGGAACTGTGTGT
GTGGGACACATGTATGTCAAATGTTAACCCACAGGGCAAATTTTGGAAAACAGTCATCTG
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Sequence=9829;DNA;Homo sapiens

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TTAATCTATAATGATGTATTAGCAATCATAGGGAACACCATGATGGTCAGTGTTCAGACT
TGATGAAGACTGAAGCATGAGAGAGGGCCAGACAGATATTGTGGAGTCCGTGCAGCTNTC
TACTAATTTCTATTTACCAATAAATATGCCTGGGATAATATAGGAGAATTATAGAAAGGA
ACAAGGAAACTAATCAAGGAGAAAGTAGAGGGTGGTTTCCAATGAGAGAATTTCATCTGC
TTCTAATCTAAAAAAAAAAGACATTGACATATTCAATTTGTAGTGTCTTATATAACAGTT
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TTAATATATTCAAGATAACAGAATTAAATCAGTATACCC

Sequence=9830;DNA;Homo sapiens

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TTTGAGACGGAGTCTCACTGTCGCCCAGGCTGGAGTGCAGTGGCGCCATCTCGGCTCACT
GCAAGCTCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCGGAGTAGCTGGGACTACAGG
CGCCGGCCACCATGCCCGGCTAATTTTTCGTATTTTTAATAGAGACGAGGGTTCACTGTG
TTAGCCAAGATGGTCTCGATCTCCTGACCTCGTGA

Sequence=9831;DNA;Homo sapiens

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GCGGCAGTAAAACTGCCTCCTGAAAAGAGAGCAAGCTATGGGATTAGATACTTAATAAAA
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TGCTTATTCTCTACACACTCAGGCTAGGGAAAAAGTGGGCACATTTCAAAACTCAATGCT
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AGAACTGTC

Sequence=9832;DNA;Homo sapiens

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CTGTGAATACATTCTCTCTGGACAGAGGCATATTACCTCCTTACATTCTTGTGTCTTGGA
AGATTTCTCACATTGGCAAACTGAGAGATTTTCTTCTGGAACACAGGAAAGATTATATTA
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TAGACCAGGATGCCCAGATATTCATGAGGACCTGTTCAGAAGCAATTCAGCAACTACGAA
CAGAAGCTCACAAGGAGATACATTCCCAGCAAGTGAAGGAGCACAGGACCGCTGTTTTGG
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Sequence=9833;DNA;Homo sapiens

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TABLE 2
1564/3461

ATGCTATTTATCCAAGGTGGCTAGTAAATTGCCTTAGTGATCCAATGGGTTCCCCCCACC
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AGACTGAATGCAGATAAAGAGAGCTTTGGGTTTGGGGTCAAAATGCCTGACTCCAGTCCT
GGCTACAGCACTTGCCTCAGGCAAGTGCCTTCCCCTGAGATTCCTCACCTATACAATGGG
A

Sequence=9834;DNA;Homo sapiens
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AGGGCAGGCAGGGATCACTGCTAATAAGAAGTAACACAGAAGCCAAATCTTTAAGGATAA
ACCAGAAAAGGGAAAAAAGCAGAAAAATGCATTATTGTCAAAAAGCAGTCCTACATTCAA
GGAGTCATGAGATAAAATGAAGTGCCTGGGGGAAACTTTGAGAAGCTTAGTTTGAATGAA
CAGAGGAGAATTGGGACTTCTTAAAGAGCGATAACACTGGAAATGTGTGGAAGAGTCCAA
ACCACATACTATCCAAGGACAATCCACTGTCTGACATACTCAACTTTTTAACTGTGTTT

Sequence=9835;DNA;Homo sapiens
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TTTTAAGTAAAAAACTTAAGGAATAATGATACTTGCTTTGCCATTCAAGGGCCTTTTTTT
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GTTATAATTATTTACTTATTGTCAGCAATTGCTTTGTGGCCTATTCATTTGACAGTAGGT
GAT

Sequence=9836;DNA;Homo sapiens
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CTGCCTCGAACCTATTCTTACAGCACCTTCAAACTTATTTTGGGTTCCCTGTGATTTGCA
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TTGGTCATATAATTCACTTCCTTTTCCTACAAATAAATTTTATTTTCTTGTAAGGAGAGA
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TATTTCCAGGAATGTGAAAGCTTGTGGGG

Sequence=9837;DNA;Homo sapiens
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Sequence=9838;DNA;Homo sapiens
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TATTGCAAAGAATTGGCCAGTATAGAAATGGCTTCCAGAGACACTGCAATCTCTACTGTG
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TABLE 2

1565/3461

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Sequence=9839;DNA;Homo sapiens
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CTAATAAATAAGCATATCCAGGTTTTTCATTAATTAAATGAGGAGTCTATAAATTCTTAC
TAGTTTTAATAGAAACATTGCCACTAAAATGGTGTATTCTAGCTGTGTGAGCTTTTGGAA
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CAGCAGGTGTGGTAGGGAGAAATATAAGATGACTCCCAAGATTTTTGC
Sequence=9840;DNA;Homo sapiens
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Sequence=9841;DNA;Homo sapiens
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Sequence=9842;DNA;Homo sapiens
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ATTTATGTATAC
Sequence=9843;DNA;Homo sapiens
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Sequence=9844;DNA;Homo sapiens
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TABLE 2
1566/3461

ACTGAGACTCCAGGATGACCATAGAAACCTGAGGAAGTGGTTGACTAATCAAGAAGAGAA
ATGGAAAGGAACGGAAGAACCAGGGGAGAAAACTGAGCTGTTCTGCCAAGCTTTAGCTAG
AAAGAGGGAACAGTTTGAATCTGTGGCCCAATTGAACAACTCTTTG

Sequence=9845;DNA;Homo sapiens

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Sequence=9846;DNA;Homo sapiens

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Sequence=9847;DNA;Homo sapiens

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ACACAAGGGCCTAACTTATGCCAAGAATAGAGAAGAGTTAGAAATGACTCTCAATAGTGT
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AGGGTGTTTCTGTGGTGTTCGCTGCCGGTGTGCGTCAGCAGATGTGGCAGGAGGAGGTAA
ATAGCCACGTGCCCTTGGGGTGAGTTTCGGTTTCTCCAGCTTTCAGGGACTTCTAAAAAG
TGAGCCTGGTTGCAGCTTCTACAATGCAGTAATCCTGGCCCTTCTCTGAAGGTCCTTTGA
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TCCTTACATCCATGAATCTCAGGTGTGTGTA

Sequence=9848;DNA;Homo sapiens

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Sequence=9849;DNA;Homo sapiens

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GGGCAGCTGATGAATGGGTTGCTGTTATGGTGTTTACTTTTCTGAATCAGGTGTTCCTTT
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Sequence=9850;DNA;Homo sapiens

TABLE 2
1567/3461

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CTCCTAACATCAGGTCTGTTAAAAAACGATGACTTTAGCCGGGCATGGTGGCTCACACCT
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CCAGCCTGGCCAACACAGTGAAACCCCATGTCTACTAAAAATACAAAAATTAGCCGGGTG
TGGTGGCATGCACCTGTAGTACTTTATATTGTTTTATCTTTTTTTTTACACAATATATGAT
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CAGGCCTGTCTTGGCATTAGTTA

Sequence=9851;DNA;Homo sapiens
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TTGGTGGCTCTGCGCTGAATTAAGGAAGAGATTTGAAAGCAAGGCTATTTCCCTGGCGGC
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AGGCAAGAGAAAGAGTCCAGGTCTTTTACCTAAATTGCACACCAATTGAGCTCATCTGCT
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CTGTC

Sequence=9852;DNA;Homo sapiens
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GTG

Sequence=9853;DNA;Homo sapiens
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AGGAAAGACTAGAGA

Sequence=9854;DNA;Homo sapiens
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Sequence=9855;DNA;Homo sapiens
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Sequence=9856;DNA;Homo sapiens
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CAGTANAAGCAATATGTAATCAGGTATTCTATAATTTTATTTGGATAATAAATGCCATGG
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TABLE 2

1568/3461

ATTTATTTAAAAACCTGAAAGCTTGTGCTTT
Sequence=9857;DNA;Homo sapiens
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GTAACTCTGTGAGATGGCACGATGATTTTAGGAGAGCTGATGTAAGTGAAAAGTTACACT
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CAGATTTTTCAGAATTGCCTAAAAGAGCAGCAATTGTTTTAGCGGCGTCTGTCAATTCCA
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GGGGTTAAGATCTAATCTTGAACCTCTTCTAGAGTTACCTGGGGGATCTGAATCTGCACT
TTCTGGGTAAATCATAGCTTATTAGTGCCAGAAGTGAGGTTAGAATTCATCTGGTGAAAC
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Sequence=9858;DNA;Homo sapiens
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Sequence=9859;DNA;Homo sapiens
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Sequence=9860;DNA;Homo sapiens
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TABLE 2
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TTGGTAACAACGGAAATAATTTGGAGTCATGCTCTCAGCTGAAACACAGAGTTTCCTTCC
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CCTATTTATCAGTGGAAAGTAATCAGGGAA
Sequence=9863;DNA;Homo sapiens
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TABLE 2
1570/3461

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TCCAACGGCAAAATTATACAGTGGAAGAGGAAGTAACGTGCGTGCCAACGTGGAGGTGAG
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TABLE 2

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Sequence=9879;DNA;Homo sapiens
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TABLE 2

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Sequence=9881;DNA;Homo sapiens

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Sequence=9882;DNA;Homo sapiens

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C

Sequence=9884;DNA;Homo sapiens

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TABLE 2
1573/3461

ATCCT
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TABLE 2

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Sequence=9891;DNA;Homo sapiens

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Sequence=9892;DNA;Homo sapiens

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Sequence=9893;DNA;Homo sapiens

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Sequence=9894;DNA;Homo sapiens

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TABLE 2

1575/3461

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Sequence=9896;DNA;Homo sapiens

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C

Sequence=9897;DNA;Homo sapiens

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CAGTTAGGGGAATTAAAATAATATCTTTTTACTCAGACAGTATTCAT

Sequence=9898;DNA;Homo sapiens

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Sequence=9899;DNA;Homo sapiens

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Sequence=9901;DNA;Homo sapiens

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TABLE 2

1576/3461

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Sequence=9902;DNA;Homo sapiens

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Sequence=9903;DNA;Homo sapiens

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ACATTTTGAACTCTATG

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Sequence=9905;DNA;Homo sapiens

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Sequence=9906;DNA;Homo sapiens

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TABLE 2
1577/3461

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Sequence=9907;DNA;Homo sapiens
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TABLE 2
1578/3461

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TABLE 2
1579/3461

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Sequence=9919;DNA;Homo sapiens
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Sequence=9921;DNA;Homo sapiens
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CATCTGTGCATATGAAATGCTGTTTTTCTAAAAGATTTCTCACATTGGCAAACTGAGAGA
TTTTCTTCTGGAACACAGGAAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATA
TGGGAGGATGACAGACACAGAACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAG
GACCTGTTCAGAAGCAATTCAGCAACTACGAACAGAAGCTCGCAAGGAGATACATTCCCA
GCAAGTGAAGGAGCACAGGACCGCTGTTTTGGATTTCATTGAAGATTACTTGAAAAGAGT
ATGTAAACTTTACTCAGAACAGAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAG
ATTATCTAAGCTGGAACCAGAACCAAATACTAAGACAAGAGAATCCACATCTTCTGAGAA
AGTTTCACAGAGT
Sequence=9922;DNA;Homo sapiens
GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTACTCTTACAGATGTCTCAATT
AATTTTAACCTCTATCCCTAATGGTGTTTAAATTTTGGTAAAGAAAAATTCATTTTTTCT
TTATTTTCCAAGAAATGGTAAGCTATCTTTGTCCCTATGGGAGATGTGGACAGAGAGAAC
TTTCTGTCTCTGATGTCTTTTGTGTGAGACACGATTTTATGAAATAAATAACTGGCGCAG
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Sequence=9923;DNA;Homo sapiens
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GGCTGATTGTCATCTGTGGTTCTGCTTCTTCCTTATGCATTTTTGACCCATTTCACAGAT
TTCATAATAACTCATTATGAAAATTTTATTCTTTTCAGAACCACCGATTTTTAAAACTTT
AATCAAGACAGCTTTCTTTTTGCAAAAGATTTCAATAATGAGGATTCCAGGTTGGCACAG
GCTGATTTGGGCAACTGAGAAAAGTCTTTCCGACCTTTGTCAGAGAAGTAGCTTAACTGA
GTTCGTTCTTGTTGCCACCTTGCTTTTGAATCTCTTGGTTAATGTATGAAAGCANAAGAA
CTGCTTTCATCTGAGGCACACAGTGGCAAAGTTCCCATGGCAAGAAATGTTTGTTCTTAC
AAATCTCATACATGGTGGTCACAAGGGAAACCTTCNNATTTTGTTTTGCTTGTCTGGGCT
TTATCATAATT
Sequence=9924;DNA;Homo sapiens

TABLE 2

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TGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTATAT
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TGATAGAATGAACCTTAGTCTTAGTTCCTTAGTCTAACCTCTGGTTTCTTAGTCTTAGTT
CCTTAGTCTAACCTCTGGTTTGAGTCTCAGGAATATATTTACATCCAGGTTTGGTCCTTT
GAAGATATCACAGACTAGTCCCTTTTTCACATGATGTCCTTTAAATATTTGAGTAATATC
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TGAAGATTTTTGTTATGCATTATAAATTGTTCTTAGTAGCCTTCAAATACACCACAATCT
GTGCAGTTAGTTAAATTCAACAGCAGTTCATTTTTGCAGAATCTGTGAAGTGGGGCAAAA
CGTTCTTCAATTATCAGTAAGTTACCTACTTAGCTCTTGCAGGCAGGTAATGCATTGCAC
TCCATTTTCCATCAATAATATGTGATGAGCATCCAGAGAATTATATAAAAATGATTATGA
AGAAATTATC

Sequence=9925;DNA;Homo sapiens
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TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGGGCTTGCAAGGTAGACAG
CACTGTGAGAAAAGGAATCATAGAAAATTAGTGCTGAGATGAACTACTGAGATAATAGAA
TCTAACATCCTCATTTTAGAGAAAAGAAACCTGTTGTTTATAAGGAGTTGACTGATGTGC
CTAGGGTCACACAGCTAGAGCCCTTTAAGCCAAATTGTTACTCTATTATCCTACACATTT
CCTCATAAATAAGTTCATGGGCAGGAGGTGAGAGATGAAGAAAATAGATACACCAGTCAC
AATGTTAAGAGAAAAGCTCTA

Sequence=9926;DNA;Homo sapiens
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AGAGTCACCACCAGAACTATTTTAATTATTCAGGAAGGAAGAAATGTGGGATGCTCAGAA
GTAAACAAAAGTCTCAATTTTCAAAAAGAATAAATTTATGGCTACATTAGATATTGACCT
CTGGGGGAAAAGTTATAGAATGGATATCAAATAGATTTGTCTTGTATTTTAAATTTTTTT
GTAAAGTCTAAATGAAAAGATTAAGAGAAATAAATGGAATACTATAAAATGGCCAGAAAT
ATGCTATTACATATGTTTATATCTATATATACAGATACATTAAGAGATAAATTCCTTTTT
CTTCACAAATTGTTTTATAATTTTTCAAAATCTGCAAAGTGAATGGTATAGCCTAGAGTC
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TG

Sequence=9927;DNA;Homo sapiens
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CTGACTTGCCTTTCTTACTGACTTTTTTCCTAATTTTCCTTCAAAACTCAAGTTAACCTT
TTCTTCTGAGACAGCTTTT

Sequence=9928;DNA;Homo sapiens
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ATATGAATAGATAGAGTGTATCAATTTCTATTTTTTAGTCATGACAATGTAAAATAGTTA
TGCAAGGTGTTACCATTGGGGGAAACTGGGTAAAACTATATAGGATTTATCTGATTATTT
ATTGCCACTACATGTAATTCAATAACTACCTCAAAAGAGAATGTTAATAAAAGGAATGAA
GATATTATTTCTTAGCTGATATGGAGTGAATTATAGGATATAATGTAAATGCTAAAAAAG
TGAGAAAACAAGATGCTAATGAAAATATTTATTATATATTTGGTGGATAGGTTAAGAGTG
ATGGAGTAAAATTGAAGCAAGACTACTACTTTTTACTTAATTTTGAGTTTTGAACATGTA
AATACTTTTAATACTTCAAAAATTAAA

Sequence=9929;DNA;Homo sapiens
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TTCATTAACATTAGGAAGTAAACAGTTGGCCTCTGAAATAAACACCAATCTTTAGTATTG
TGAAGTCCCAGTTTAAGGTTTCTCAGAATGTTTGTCTTTCAGTGTTAACGTTTGTTCTAA
TGCCCAGCTTTTATTGTATGCTTTTTCTGAAGGCTGTGAAATTCTGGTATTACTGGGATA
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CCTTTTCTGTTACATTTCCCAGAATGTGGCTGTTTTCATTTGATCGTTACAAAGAGTGGA

TABLE 2

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TGTTTAACTTTGGTGTTAATGTCATTTATGTGACATTTCAAACTGTCTTTTCAAACTAAC
TTGATCAATATTG

Sequence=9930;DNA;Homo sapiens

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ACCTCTTAGACAAGCTGAGTAGTAACCAAATGATGCCATGTGTTACTGTGCTTTTATTTT
TAACCTCATGAACCTCTGATATTTTAATTCAATATCAGATTATTTCTTTGTAGGAGATGC
TTTGGGGATATGGACAGGAATTGTATTTATGAACTGTAGTGGCCATTAGCCATTTCCAAT
TTAGTGGAATCAGAACTTGTTTTTATAATCACACAAATGCTCTGGGTTTAAAAACTACTT
CTTTAGGAGTATGTGAGGACTTACAGCCAATAATGTTTGTCATTAGCTTACCATAAAAAT
ATCCAGGGTTTATGACTTGATGCCTTCTATTTTTGCTGCAATCCTAGTGACTAATATGTA
CCTCGGCCGCGACCACGCTAAGGGCGAATTCCAACACACTGGCGGCCGTTACTAGTGGAT
CCGAGCTCGGTACCAAGCTTGGCGTA

Sequence=9931;DNA;Homo sapiens

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GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAACATTAGC
CATGCATGGTGGCATGCGCCTGTAGTTCCAGCTACTCAGAAGGCTCAGGCAAGAGAATGC
TTGAACCTGGGAGGCGGAGGTTGCAGTGGGCTGGTATGGTGCCACTGCACTCCAGTCTGG
GCAACAGAGCAAGACTCTGTCTCAAAAACAAAAACAAAAAAAAAAAAACACTTTCTTCTA
TAAAATGGCTCCCATGAGTAGTAAAATGACACAGTAGTTAGGTTTATGTCCAGTCACAGC
CTCTTTCCATTTCCACTGGGAATGCCTTACCTAATGAGTTAAGACAATGAAAAAAGTAAA
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GTATGTTACTGACATAAG

Sequence=9932;DNA;Homo sapiens

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AGCCTCAGTTGGTATATTTTGTAAACCATGCCTGTGTAACCAACATCCAGCAATGAGAGT
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CAAAGAATTACACAAGTTTTTGTGTGCTGTTCGTGAAAGAAGGATTTTCTTTTATTGAAG
AAGATTGTTCTCTTTGACCAAGTTTAAGAATCTATGTAAAGAAGGTAGATAAACTGAACC
AAGTAGGACAATGGAAGTCCCAGTTAGACTGACTGTCCTCATATCCACTTATGTAACTAT
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TTGAAGAGAAAGATCAGTGGGAAGTGGAGTCATTGGGAAACGTGCTTTGGGAGAGGATGA
GGCTTCTGAACCTTGCTT

Sequence=9933;DNA;Homo sapiens

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TCTGTGCATATGAAATGCTGTTTTTCTAAAAGATTTCTCACATTGGCAAACTGAGAGATT
TTCTTCTGGAACACAGGAAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATG
GGAGGATGACAGACACAGAACGAGACCAGATAGACCAGGATGCCCAGATATTCATGAGGA
CCTGTTCAGAAGCAATTCAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGC
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GTAAACTTTACTCAGAACAGAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGAT
TATCTAAGCTGGA

Sequence=9934;DNA;Homo sapiens

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TGCAGCCAGAGATTTAAGAGGGCTATGTGTCCAGAAGGAGACTCTGGGCAAACGCAGAAT
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TABLE 2
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TTGAATCTCTATGAGCGGAGACATGGCTCCTTAAGAAAGGAGACACTTCAATCCTGTTAT
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ATGCCTATATTTGGAGATAGAGCCTTTAAGTTAAATGAGGTCATTAGTGTGGGTTCTAAT
CCAATATGACT

Sequence=9935;DNA;Homo sapiens
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ATACAAGCAAAGCCTTGGTGGCTCTGCGCTGAATTAAGGAAGAGATTGAAAGCAAGGCTA
TTTCCCTGGCGGCAGTAAAACTGCCTCCTGGAAAGAGAGCAAGCTATGGGATTAGATACT
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TCAATGCTTAAACTATAGCTTGATGTGAAAAAGTAAAGACCAAATTGCCCATGCTACATC
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TAGGAATCCATCCTACGAAATGCAATTTTTAAAAATGACACAATA

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TCTCCTCATTGCTTTCAACCTATATTCCTCCTTATCCTTCAAAACTCAGCTCAAGGGTGA
CTTCTTCTGGGAAGCTTTCCCTCCACCTGCAGACTGATTTATTCTGCTCCCCAAGAACTT
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CATAAAGGAATGCCTAGATAGGAGGGAGGAATTGAAATGCTGTGATTTAAAGGCAGGTCT
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ATTTATTATTAATACCCTTTTCCCAACTTTTACCTTGCNNCTTTTCATTTTCTNNTAGGT
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TABLE 2

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ATGGTTTTAAACTTTTTGAGTCCTAATTTAAAAATATTTTCCACCTCAAATTTGCAAAAA
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CCACAACATCCTCCAGCAGGTTTTGCAGAAATGACTCTCATTTCTCCAATTGATTGCTTT
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TAATCATGGTCATAGCT

Sequence=9940;DNA;Homo sapiens

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GTTGACTGATGTGCCTAGGGTCACACAGCTAGAGCCCTTTAAGCCAAATTGTTACTCTAT
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Sequence=9941;DNA;Homo sapiens

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CTTTTGTGATCCAGACATTGGAGACTGTGCTGAATGCAAGGGTGCCCCAAGCCATGGTCT
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Sequence=9942;DNA;Homo sapiens

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AGATGAAATATGCATTTATCTAATTCAAGCATAAATCTGCCTTACCAATTCATGCATTTT
TATTTCTGTAGCTCTTTGTGATGTATAGAGTTAGGCAGCCAAAGGACACAGGGAAATGGG
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Sequence=9943;DNA;Homo sapiens

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AAAAAAAGGAGTGCCCACAGCACATTTATATTTGAGAGCACTGACATCTGCTTTATCACC
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Sequence=9944;DNA;Homo sapiens

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ACAATGAATAAAATTTTCATTTCCTTTGAAAGTGCTAATCACCTTCAAACCACAGGATTA
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TABLE 2
1584/3461

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Sequence=9945;DNA;Homo sapiens
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TAGGATCTGCTTTCTTGAACCACTCCTGGCACCCAACTCTGACAGGTTGCATTCCCCAGG
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CTGGATGCTTGTTAAACTGTCACATTTATGTAGTATG
Sequence=9946;DNA;Homo sapiens
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TTTCCTTTTAGA
Sequence=9947;DNA;Homo sapiens
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ATCA
Sequence=9949;DNA;Homo sapiens
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Sequence=9950;DNA;Homo sapiens
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CAGAACTATACCCAACTGAAAAAGGCGAAAGAANATAACAACAGCAAAACCTTTAGAATA
ATTCAGTAACTGGCTAGTTACAAAATCAATAACCAATCGCCAAGTTAAACTATTATACAA
CTACACACTACTCTCTTATGCAGAGGTAAGAATGAGGTAGATTGATGTGTACTNTNCTNT

TABLE 2

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TTTTAAATTTTTTTTTCTCTCGCTCCATTTCACACATACTAAGTTCCTTCTGTAATCGCTT
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Sequence=9951;DNA;Homo sapiens
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GCAGGCCGGACGGAGATGAGAGTTTCGAGAGGAAAAAAAAAGGAAATCTGTGGAGGTAAT
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GGGAGAAACCCATATACCTTAGAGTGATCTAAATTGAAATACTAAGATTCTAGAAAGAGG
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Sequence=9953;DNA;Homo sapiens
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GATGGAAGAATCCCAGAAGGAACTTGAATCATATATGATGAGGGCTCAGCAGTTACTGGG
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TABLE 2

1586/3461

TACAAAAAGTCTGGCCAAGTATTTGAAAGCTGTTGAAGAACTAAAAAATAATGTAACTGA
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TAGTGACAATATTTTAAAACTCA

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AAAATTAGATTTTGGGTGGCATTCTTGTGGAGAATAAATCTCTCAGTCTTTACATCTCTC
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TABLE 2
1587/3461

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TABLE 2
1588/3461

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Sequence=9967;DNA;Homo sapiens
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Sequence=9973;DNA;Homo sapiens
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TABLE 2
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TABLE 2
1590/3461

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Sequence=9982;DNA;Homo sapiens
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Sequence=9983;DNA;Homo sapiens
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Sequence=9984;DNA;Homo sapiens
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TABLE 2
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CTAATTTGTTCCTACAGATTTTAATTTTGACATGGATGGCTTAGGGAGAAAGCAGAAGGA
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Sequence=9985;DNA;Homo sapiens
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Sequence=9990;DNA;Homo sapiens

TABLE 2

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Sequence=9991;DNA;Homo sapiens

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Sequence=9992;DNA;Homo sapiens

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Sequence=9993;DNA;Homo sapiens

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Sequence=9994;DNA;Homo sapiens

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TABLE 2

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Sequence=9996;DNA;Homo sapiens

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Sequence=9997;DNA;Homo sapiens

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Sequence=9998;DNA;Homo sapiens

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GAGTTTATCAT

Sequence=10001;DNA;Homo sapiens

TABLE 2
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Sequence=10002;DNA;Homo sapiens

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Sequence=10003;DNA;Homo sapiens

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Sequence=10007;DNA;Homo sapiens

TABLE 2
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TABLE 2

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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2

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TABLE 2
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Sequence=10045;DNA;Homo sapiens

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TGTGTTCATTTAGAAAATGAATTATGCCATGCATTTCTCATCACTAAAAGAGTTTAGAGT
TTTGAAAGTGGCTGTAGGAGAGTTTTATCAAAGATGAAGGAATAAGATTTCTCTTAACTG
CTCCATCAACTCTTCCTCTTAGAAACCATTTCAGCTCTCCAGAGGCCTACAAAGTCTTCT
GTATTATGTGATCTCTTGGGCTTTAGATTGCTTCTAGATTACTCTTTCAATAAACTAA

Sequence=10046;DNA;Homo sapiens

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ATCTGCCAGAAGTAATATAGTATTACAAACTAACAATTAGGGCTCTTAACACAGATAAAA
CTCTTAAATGCTGGTTCTATCACTTACTCTTTATGTCACTCTGTCCAAGCATTTAAACTC
TCTAAGCTATAGCTTCCCCCTTATCTCTTTAAAGGGGAACCATGATGATAACTATCTCAC
CAGGTTTTAGTAAAGACCGAATGGTAAAAATCTACAGAATGCATTTAGCATAGTACCTGC
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AGCTCGGTAC

Sequence=10047;DNA;Homo sapiens

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GGATGGTGAAAAACCCTTTAAGCTTTTTGATTTCTCTTTCCAAACTTTTGATGTCCCTTT
GGGTATTTGGTGGCGTGGTTTACTGTCCTTGAAAGGGAGTTCAGTGGTTTGGGACTGCAA
CTAAAGCAGGAATAGCAGAGTTTGATATCAATCTGAGTTCTAGGACTGTGAATAAACTGT
CTTTATCTTATCCAAACATTGAATATATGGTAATTTTATGAAAGCGGAGGAAACCAGAAG
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TABLE 2
1602/3461

AGAAAAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTA
CTAGTGGATCCGAGCT
Sequence=10048;DNA;Homo sapiens
GACTACTATAGGGCGAATTGGGCCCTCTAGATGCACTGCTCGAGCGGCCGCCAGTGTGAT
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CTGCTAATCCACAGGAGACAAATTACTTACTATTACAAATTACTTCTTAGCTTCCCATTA
GCTTATATTAAGTTCTAAATCATAGGGAATGAGTTAAAATCATGAGATTCTATGGTCCTT
TTGCCATGTATGCTTGCTGTGTTGTAATAGTTTTGTTAGAGAAGATAGAAAGCTTACCAC
TCAGTGCCATAAGTGAGAAGGAACAACAACAACAAAAAGGACTGTGGCCAGACATGGTGG
CTCATGCCTGTAATTCTAGTGCTTTTGGAGGCCAAGGCAGAAGATTATTTGTGGCCAAGA
ATTCAAGGTTACAGTGATCTATGATTGCACCACTGCACTCCAGCCTGGGTGACAGAGTGA
GAC
Sequence=10049;DNA;Homo sapiens
GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT
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TAGGACGCTACTGAAAAAAGCCTTGGTTTTTTTCATACTTTTTCTGCTTTGCAGAAAGGT
GAGGTGAAGCTTTCAAACAGCCTGTGGTTGTAGCCTTCTTTCTATTATTTATGGCCATGT
GTTCTGGCAACAGTTACAACTGCAACTCTGGGCAAAGAATAGGTTGGAAGACTGTTTCAA
CGTTTTCCATCAGGACAAGATCATACCGACACAGCTGAGGCCTCTCCGGATGGGCAAGGG
ACCTTAACTTCATTCGGAGAATCCTGAGCTTGTACCTCGGCCGCGACCACGCTAAGGGCG
AATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTA
ATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTTACAATTCCACACAA
Sequence=10050;DNA;Homo sapiens
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AAAATAGAAATGGCAACAAAACAATGAATCTGGAAGACTACTGTGTTGTCATTAATTCCT
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TCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGGTCTCGTGATCCACCTGCCTCAGCCT
CCCAAGTAGTTGGGATTACAGGTGCCCACCACCACTCCCAGCTAATTTTTGTATTTTTAG
TAGAGATGGGGTTTCACCATGTTGGCCAGGTTGGTCTTGAACTCCTGACCTCGAGATCCA
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TACTTTCTTAATTGCCTCTTCATAATGTATTTAATAAACTATGGCAATCCCAGAATGACA
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TTTTCCAAACTTCAGTGGA
Sequence=10053;DNA;Homo sapiens
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TABLE 2
1603/3461

TTAGAGATTTCTCACAGGTGTTCTCCAGACCCGAACACTGTAGTTTTATGTAGATTGCTC
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ACCACGCTAAGGGCGAATTCC
Sequence=10054;DNA;Homo sapiens
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GGAGAGAGTTAAG
Sequence=10055;DNA;Homo sapiens
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TATCTGCAGAATTCGCCCTTAGC
Sequence=10056;DNA;Homo sapiens
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CAGTTTTGTCCTGCCTTGATACTGTGGCATCTGCATAAATG
Sequence=10058;DNA;Homo sapiens
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TCG
Sequence=10059;DNA;Homo sapiens
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ATCTGCTCTTAGCTACCTACCATGCCAACACTACTGAGAAAGCTCACAGAGGCCCATGAT
GCCCACCTGGATCTGAGGACCTAAAAAGCCACAACAGGCAACCATAATCTGGGACTTACC
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TABLE 2
1604/3461

GCTGTAGAGAAAAAGAACCAATCAAATGGGTGTGTATGGAAAGAGAGAATTATTTTAGGG
AATTAGCTGACATA
Sequence=10060;DNA;Homo sapiens
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Sequence=10061;DNA;Homo sapiens
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CCTGAACCAGACGCAGGGGCTCTGATGCAGACCCACTGGGCGTGCCTACCTCTGAACTGC
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ACCCACAGCCT
Sequence=10064;DNA;Homo sapiens
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CATATGAGAATTCTATACAGTAATAAAAATGAATAATCAGCAGTTAATTGCAAAACATGC
ATGGATCTCAAAAACATATTTATAAAGAAAATAGTCTAACAAAAATAAAATATCCTTTAT
GATCCTCTTTCTTACATGTTACAAAACAGGCAAAGATAACCCATGCTTTTAGAAG
Sequence=10065;DNA;Homo sapiens
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TGAGTCACTGTGGTGACAGCAGCATCCAGGACGTCGATGCCCACCCGTTAGCCCCCTGAA
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TABLE 2

1605/3461

TCTCCTGGTTTTCCTTCATTCTTTTCTGAATATGCACCTTGCACATGTGTGGTGTTTATC
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CTAAATATCTCAGGATGCATAGTGGGACCTCACATTTGGCAAAAAGAATTAAGAGTAAAA
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GCAGTACCTTTTTTCTTCTTAAAAAGGCTTTTA

Sequence=10066;DNA;Homo sapiens

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CATCTTAAAGGTCAGCTGGCAATCAGTGACAAATTCTACATTCCTGAATAGTTACTTGTG
AATTCAGGATTTCATTTAGCTTAATTTGTGTGTTTTTTTCCTCCTAAGTGCTCAGGTCTG
AAATAGTCAAATTTTAACCATCTAATTGGAATGAAAAGAAAGCCATGGTTCCCGGCGTGT
CCCTAGGAGGTGAGGATAGAAGAGTGCTGGGAAGAGGAGGCACAGACTCTTTTCATGAAG
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Sequence=10067;DNA;Homo sapiens

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TACGCAAAAAAGGCAACTTTCCAGAAATCATATTGTGATACTTGATTTTGTTAACTAAGA
CTGTTGTGTGCATACATGTGGAATGATGCAAATGAGTAATTATGTGATATTATTATTCTA
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AGATAGAATAGGTAAAGGTAAAAATGCTGTACAAAAAGGGCTACATTCTAAATAGTAAAA
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AAAAATGAC

Sequence=10068;DNA;Homo sapiens

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ATTCAATAGTGAGCTTGGCAGTGGTGGGTGGGTTCCAGAAGGTTAGAAGTGAGGCTGTGA
GCAGGACCTCCTTCCAGGGGACATGCAATCTGCAGGGAGGGGCTGAGGGGGGTCCCATGG
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Sequence=10069;DNA;Homo sapiens

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GCTGAGATTAGTTTTACAGCCCTCACTCAAAAAAAAAAAAAAAAAAAGTACCCAGCACCA
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ACAATGGGA

Sequence=10070;DNA;Homo sapiens

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ACATTGATTTAAAGCAAACTGAGATTTTGTTCTAAAACAAGAGTTTCAAAATTATTTATA
CACAACCAAACAGACTAACCTGAGGAATAAACAATTTTGTGAGTAACCTTTTTGGTATCC
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GGTTATTTCGAAATAATACCTTGAGGAAAAAAAACACCAATATGTTTATCAGGTCCGCGG
GGATCCCTGACTCGGGGTCACCTTTGGAGCAGAGAGGAGGCAATGGCCACCATGGAAAAC
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Sequence=10071;DNA;Homo sapiens

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TAGTTAGAGCTGTTCAATAGACTCATAAATTTATCTTTCTGTTGGGACTACTGAGGAATA

TABLE 2

1606/3461

AACTTGAACTGGAGGAAAAAAAGTCAAGGAGAGTTGCCTACCTTCTCTCTAAATCCTTAC
CTATAATCCTTCAGCTCCTATTATAGAGACCACTTCATTTTGGTAATTCTCTTTGGGGTT
GATATTAAATACGAAACAGAAAATCAAGATAGTACCTCGGCCGCGACCACGCTAAGGGCG
AATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTA
ATCATGGTCATAGCT

Sequence=10072;DNA;Homo sapiens

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TGGGAGGAAAATACTTGAGGTTGTGGAAAAAAATCACCTGAAGGATTAGAGGTGCCCAGT
ATTCACACAGGGCCGGGAAAAGTGTCTGTTCCCACTGAGGCTGGAAACCTCATTATTCAC
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Sequence=10073;DNA;Homo sapiens

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Sequence=10074;DNA;Homo sapiens

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Sequence=10075;DNA;Homo sapiens

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Sequence=10076;DNA;Homo sapiens

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GGTAAGCCTGGGGTGCCTAATGAGTGAGGCTA

Sequence=10077;DNA;Homo sapiens

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TAGGTATATTTGTAAATAGTAGAGTCATAGATGGCCTGTATTTGAGTACAGTCCAGGGCT
GCTTTTATGGTTTCAGATCCACCTGCACAGTCAAGGGCAAAATCCACACCTCCCTTGGTC
AATTCAATGATTACTTCCTG

Sequence=10078;DNA;Homo sapiens

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TABLE 2
1607/3461

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TGTCAATGAATTTTCAAAAATAAATGTCTAGGGCAAAATCAGACCTGTCTACTTGTTGCA
TCTTGACTAAAAATTGGTCAAGGTATCTGTAAATAAGTTGCTTTATACAGTTGCTGTTCA
ACATTATGGATATACACAGATGATCACGCAAGTTCTGCTTTGTACCTGCCCGGGCGGCCG
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Sequence=10079;DNA;Homo sapiens
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TGCC

Sequence=10080;DNA;Homo sapiens
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Sequence=10081;DNA;Homo sapiens
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Sequence=10082;DNA;Homo sapiens
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TABLE 2
1608/3461

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TABLE 2
1609/3461

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Sequence=10096;DNA;Homo sapiens

TABLE 2
1610/3461

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Sequence=10102;DNA;Homo sapiens

TABLE 2
1611/3461

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CTT

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TABLE 2
1612/3461

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Sequence=10108;DNA;Homo sapiens
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Sequence=10112;DNA;Homo sapiens
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Sequence=10113;DNA;Homo sapiens
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TABLE 2

1613/3461

GAAAGCCAAGGCTCAGAGGCAGTAAGTCATGGGTCCGAGGCCTCTTGCTGATGACAAAAC
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Sequence=10114;DNA;Homo sapiens
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TABLE 2
1614/3461

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Sequence=10125;DNA;Homo sapiens

TABLE 2
1615/3461

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TABLE 2
1616/3461

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TABLE 2
1617/3461

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TABLE 2
1618/3461

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Sequence=10143;DNA;Homo sapiens
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Sequence=10144;DNA;Homo sapiens
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CGGAGTTAGAAGCATGTGGTTATTCCCTGGGGATTCTTTTATGCCTAAAGGATTCTTGAG
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GAGGGCAAGTTTTGC
Sequence=10145;DNA;Homo sapiens
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Sequence=10146;DNA;Homo sapiens
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GCTACTAGATCTAAAATATAAGCAGTAAAAAAACTACATATATGTGATTATATATACATA
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Sequence=10147;DNA;Homo sapiens
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ACCTTATGCTTTTTTTTTTTTGAGACGGAGTCTTGCTTTCTGTTGCCCAGGCTTGGAGTGC
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CTGGCCTCAGCTTCCCCAATAGCTTGGGACTACAGGTGTGCGCCACCACTCCCAGCTAAT
TTTTGTATTTTTAGTAGAGACAGGGTTTTGCCATGTTGGTCAGGCTGGTCTCGGAACTCC
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Sequence=10148;DNA;Homo sapiens
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TABLE 2
1619/3461

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Sequence=10149;DNA;Homo sapiens
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Sequence=10150;DNA;Homo sapiens
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Sequence=10151;DNA;Homo sapiens
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TABLE 2
1620/3461

Sequence=10154;DNA;Homo sapiens
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AGATATGTTACATAAAACATCCAGATATTACAGTGAAGGTCAGTGTGTGGCCAGACACAG
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Sequence=10155;DNA;Homo sapiens
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Sequence=10156;DNA;Homo sapiens
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TTCCAGCACACTGGCGGCCGTTACTAGTGGAT
Sequence=10157;DNA;Homo sapiens
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CACCTCTAACAGAAGAAAAGGAGAAAATAGTCTGGGTCAGATTTGAAAATGCAGATTTAA
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Sequence=10159;DNA;Homo sapiens
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TABLE 2

1621/3461

CAGGATTCGTAGCACCCCTTTCACCGCAATATGGTTCCTCTTAGATGTTAAGACAACTTT
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ATGGGCAT

Sequence=10160;DNA;Homo sapiens

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Sequence=10161;DNA;Homo sapiens

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Sequence=10162;DNA;Homo sapiens

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Sequence=10163;DNA;Homo sapiens

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ATGCTGGAGCTGGTTTTCTGCTTGGTAGCCCTACAACTTTGGCCCAACTACTTGGCCTCT
GGGACTCAGATTCCTCCTCTTTAAAATGGTGCTAATAATAGCACCCACCCTCTGTGAGGA
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Sequence=10164;DNA;Homo sapiens

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Sequence=10165;DNA;Homo sapiens

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TABLE 2

1622/3461

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Sequence=10166;DNA;Homo sapiens

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Sequence=10167;DNA;Homo sapiens

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Sequence=10168;DNA;Homo sapiens

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Sequence=10169;DNA;Homo sapiens

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CTCATGA

Sequence=10170;DNA;Homo sapiens

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TABLE 2

1623/3461

TGCGTCGCCAAGATGTTCATTTCATCCCACTTCTGGGATTTTTTGCTAAAATTAAAAAGA
AAAAACGTTTTTCCCAATGCAGAAAAAGATAAACCTGAATATCAAAATTCACAAATGTCC
AAATTTAACATTTCAACTTC

Sequence=10171;DNA;Homo sapiens

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TAACATATTCGCAATAAAATCTTGGGCCAAAAGAAAATTTGGGTCTGAAGAAAATAAAAT
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Sequence=10172;DNA;Homo sapiens

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AAATAAGATTATTAAAGGTTTGATGTTTTAAATCAGTGTTTCATTACAATTTAACAAATA
CCATTGACTGCCTACTTTGTGCTAGGTTCAGCAATAGTGACTGAAATACTGTCTTTGCCC
ATTTACAGAATNTAATACATGATTTAATATTTTAATGATAATTATAATGATTTCAGATAC
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Sequence=10173;DNA;Homo sapiens

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CATTTTGTAATATTCATATGACACTTAAATCTATGTATATGTAGGTCTAGTTCTAACATG
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Sequence=10174;DNA;Homo sapiens

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GGCGTAATCAT

Sequence=10175;DNA;Homo sapiens

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CCTCATGAGTCCAACGAGGGAGGTCCTCTTCTGCCATTTAAGAGATGGCTGCTTCTTAGA
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Sequence=10176;DNA;Homo sapiens

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TABLE 2
1624/3461

TAGACAGAGAGTGACAACAGTGTCTGTCGTCTTTCACAGATTTAAGGAAAAAGAAGTGAA
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Sequence=10177;DNA;Homo sapiens
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Sequence=10178;DNA;Homo sapiens
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Sequence=10179;DNA;Homo sapiens
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TABLE 2

1625/3461

GATTAAATGAGATAAAAAAGCTCTATGCCAATTAAGGGCAGTTTTATATAAAACAGAATT
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GG

Sequence=10183;DNA;Homo sapiens
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GATACACTAGTAGGAAGGTGAAGTCCCTTTTTTGGAGGGGGTGGAATAAGCAAATGGATG
GATACATCAAACCAAAAGCAGAAGAAACACCTACATTTTTTTTACACGGTGAAATGAATA
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Sequence=10184;DNA;Homo sapiens
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ACTTCATTTACTATCAGGGAGGCATGGGGAGAATAGAGGTCTAGGGGTGCGTCTTGTGGC
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TGCTGGACCCCAACTCCTGATTTACTGGCTCTAGAGATCT

Sequence=10185;DNA;Homo sapiens
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Sequence=10187;DNA;Homo sapiens
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TACTAGTGGATCCGAG

Sequence=10188;DNA;Homo sapiens
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TABLE 2
1626/3461

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GAAGCAATCATTTCATGCCTATGGGCTAGTGAAGAAAAAAAAAATCAATCATCGCACTCT
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ATCACCTGA

Sequence=10189;DNA;Homo sapiens

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GTCAGACGTGAGTGCTAAAGATGAGCATGCTGAAGACAATGAGAAGCGTTTGGCAGCCTT
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Sequence=10190;DNA;Homo sapiens

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CAACCTTGCCCTCCATTTCCACTCCACCAATCTTGGTTCAAGGTGAGAAACTGGGATGGG
AATGAGAGGATGAAGAAAACTAGGTAAGATGCACGGACAGGTTGGGAAAAAATAGTAATG
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Sequence=10191;DNA;Homo sapiens

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Sequence=10192;DNA;Homo sapiens

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Sequence=10193;DNA;Homo sapiens

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TABLE 2
1627/3461

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Sequence=10194;DNA;Homo sapiens
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Sequence=10195;DNA;Homo sapiens
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Sequence=10196;DNA;Homo sapiens
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TABLE 2
1628/3461

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Sequence=10200;DNA;Homo sapiens
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Sequence=10201;DNA;Homo sapiens
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Sequence=10202;DNA;Homo sapiens
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Sequence=10204;DNA;Homo sapiens
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TABLE 2
1629/3461

AAGGTGAAAATATTCGTGGGCTTTATATCAAAATTAAAAATGCTTTTACAGTGAAAGCAT
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Sequence=10205;DNA;Homo sapiens
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TGATGATGACGACCAGGATGCTTTTGCATTTACTGAGTTTCTACTTTGTGCTCAGAAGTG
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GAGTCAGCATCCTATTGTCTCCATATTACAC
Sequence=10206;DNA;Homo sapiens
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CCCCCTCCATCCTTGGGGGTCCTATTCCAAACCCCCTGCCATTGTTCTCTCTTGGATGGC
GTTCCTCCTGGACCACAGGTGCCTCAAACTCAGCATCCAAGGCCAACCTCAGCATCGGCC
CCCAGGAAAGACTGGCCCTCTAGCTTCTACCCTTTGTCCCTGTAGCCTATACAGTTTAGA
ATATTTATTTGTTAATTTTATTAA
Sequence=10207;DNA;Homo sapiens
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AATAACCCCCCCCCCGGGGGGGGGTTATAAAAATAAAAAA
Sequence=10208;DNA;Homo sapiens
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Sequence=10209;DNA;Homo sapiens
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CACCATAATGATGTTACTAAGATTATACCCAAAAAAGTATTCTCATATACATGCACTATC
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TABLE 2

1630/3461

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Sequence=10211;DNA;Homo sapiens
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TTCTCTACAGTGAGGGTCTGCAGGCTCATATCATTGTGGCTACTAGCTAGACTGAAGTCC
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Sequence=10212;DNA;Homo sapiens
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CCTGTCAGATCAGTGGCATTGGATTCTCACAGAAGCATAAACTCTATTGTGAACTACACA
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Sequence=10213;DNA;Homo sapiens
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CAAAAGATGCATATTGTTTTAAACCATTAGCTTTTGGGGTAGTTTGTTATGCAGCAAAAG
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Sequence=10214;DNA;Homo sapiens
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CCTCCTCCTCGTCCTCCTCCTCCTCTTCTTCTTCACTGCTCTCTTTAGACAGCTCCAGCA
GCTGCCCTCTCTCCGATCTGGGCCGTCTCTCCTACCTGGCATATTGGAAGAGCGTCATCT
TGGAGTATCTCTACCACCACCATGAGAGGCACATCAGCATCAAGGCAATTAGCAGAGCGA
CGGGCATGTGCCCACATGACATTGCCACCACTCTGCAGCACCTCCACATGATCGACAAGA
GAGATGGCAGATTTGTCATCATTAGACGGGAAAAGTTGATATTGAGCCACATGGAAAAGC
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TAATTTCTAGTGCTG
Sequence=10215;DNA;Homo sapiens
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TTCCTCTTTCAAGCCCTTATCTCTAAATACAGTCCTGTTTCTGAGAGACTAGAGGTTGGG
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CATGGAATGGATTAATTAACAAAGTGTGTGCTCTGTTTAGATTAGGTTTGGCTTTTGCTT
TCAAGGCATGGTTTAGCCAGACAGTCCTTTGCCAGAACTCACTGCTGTTCCCCCTTGCTT
CTGGGCACCACTGCTGCTTCGACCCCTCAGCATGGAAGTTCCTGGACTTCATGGATGTTT
GTTCCCTCTGTAGCCCAAGATCCTGAGTTCCACAAGGTATGTGATGAGTTCGGTTTCCAG
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TABLE 2
1631/3461

Sequence=10216;DNA;Homo sapiens
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TAAAACTAAATCCAAGGAAGAAAAATGTAACAACACGTGGAAGTGAACACTGGATGAATA
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CTTCCACAGTTCAACTCCTTTTATTTTGAGACGGNGTCTCGCTGTGTCGCCCCAGCTGGA
GTGTAATGGCGTGAACTCGGCTCACTGCAATCTCCGCCTCCCAGGTTCCAGCAATTCTGT
CTTAGCTTCCCAAGTAGCTGGGATTACAGGCATGCACCGCTACTCCAGGCTAATTTTGT
Sequence=10217;DNA;Homo sapiens
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CTTTGTGTCTTATGAAACCTCAAGTCAAAATGAGACCGCATTTAATTATTCTGCTTTGCT
CTTTTTTTGGGGTGGGGGGGAGATAGAGTTTCACTCTGTCACCCAGGCTGGAGTGCAGTG
GCACAATCTTTGCTCACTGTAACCTCTGCCTCTTGGGTTCAAGTGATTCTCGTGCCCCAG
CCTCCCGAGTAGCTGGGACTACAGGCACGTGCCACCACGCCCAGCTAATTTTTATATTTT
TAGTAGAGACGGGGTTTTGCTGTGTTGGCCAGGCTGGTCTCAAACTCCTGACCTCAAGTA
ATCCACCTGGCCTGCTCTTTTCATGTCTTAACATGGCATGTCTTTTANTTTCATTATTTT
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CTTCAGTGAGTGCTTTTCTAATCTGCAGACCATTTACATTTCCTGTTTGCAGCATGCTGT
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ATGTGCTGAATTGTCTATTGATGG
Sequence=10218;DNA;Homo sapiens
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GCATATATATATGTGTGTATATATATAATAGAAGGTATGTCTCATGCAATATTTGGGATA
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TCAGTGCCTAAGTACCT
Sequence=10219;DNA;Homo sapiens
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CATTGTGTAGACTAGCTGCCCTCCGATGGGTGCTCTGATTATCAGTGGTTCCAGTGCAGG
GCCTGTCACTAAGCAGGCCTCACTTCCTCCTTGGGGGCTTTCCCATGGGAGGTGTGGCTT
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Sequence=10220;DNA;Homo sapiens
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TCTGAAAGGCCTGACAAAGAAGAATGGACAATCACAGATGCTGGTTTTGCCTTCTCATTC
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TACCACAGCATCCATCATTCAAAAACCGAAAAAGGACCCACCTGTATAGGCATCTTTAAA
AAGACAATAAAGGGATCCGAGCAATTGTCT
Sequence=10221;DNA;Homo sapiens
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TABLE 2

1632/3461

CTCCAAAATCACCTCTTGGAAACACTGCCTTATTCCTCCCCCTCCCAGGAGAGGTTGAGT
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GCTCCACTTGACTATAAGCAAATTGAAGGCAGGGTTTGTGCCTTCATAATCTCTGAATGA
TCTGAAGATGGAAATAACTGCTTTGTGCTTTCAGGGAGCTCATATACCTTAGCTCCGTGG
GCTACGAAGCTCGTTCTTCAAATGAGGTG

Sequence=10222;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA
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AACAAAGAGAAGTAAAATGTTTATAACACCACATTGTATATTATAAATGTTTAGTATTAT
TTTATACAGCATTTTAGCTCAGTAATTTGTATTTTGAATGGATAAAAATGAATTAAGACA
CTGACGCACACACACACCTTATAAAAAATAATTTTAAAAAATTGTAGAAATGGCATGTTA
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TTTTCAGTTTGGGAGCTAA

Sequence=10223;DNA;Homo sapiens

ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCAAGTTATAA
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AGCATTTATAAAATTTGATATGTTCTGATAGGACTAGAAAACTGTGAATCTTAATAATTT
AAATAAAACCTTAAAGTTTATAACTTATTTTAAATAGCAAACAGTTTGTGGCTTTGATTT
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TTCCATGAAGTATTATGATGACTGTG

Sequence=10224;DNA;Homo sapiens

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TATTTTGCCAAAATAAGCCACTGGGACTCGGTAGGTGGAGCCCCAACGGCACTTTTAGGG
ACCTATGGGGCCTTCGTGGCATCTCTGAGCTGAGTGCTGGGGAGGAGGTTGATGTAATGG
TGACTCTTTTCTGATCAGCACCTTGGCCGTGAAGCCCAAGGTCCCAGCCAAACCAAAGGG
CCAGTTGTTTCAGTTTAAACAGACATGTCTTTAGTCTAATAAAATTAGTTAACTGCCAGT
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Sequence=10225;DNA;Homo sapiens

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GAACATTATGATAGCTGTGGTCGAGTCTATGATTAACAAGTTTGAAGAAGTGAGACCGAA
TCAAGAAGGCAGAAAAAATCCAAAAGGAGAAAAGCCATAGTTACCGCACAGACAATTGCT
CTGATAGTGATTCATCATTGAATCAGGTGTGTTGTTCAGTTTTGCATTTATGTCTTGAAA
TGCTGTTTAATAATAATTAGCTTCAATAAATTATTTCTTAGCCATATTTTTCCTGCCTTC
TTAAGATTCAGGAGAAAAATAATAAAACTAAATAACCTAATATTAAATATTTAGTCCATG
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Sequence=10226;DNA;Homo sapiens

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CCAGCCTTTTTTCTTTTTGTTTCTTGTCCTTTATTTGTTTTCTTGGTTTGAAAGAACTGAG
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CTCCTCTTGCCTTAGCTTCTTGAGTAGCAGGGACTCCAGGCACGCACCACCCTGCCTGGC
TGATGACTGTTCCTTTNTTCTAAAGTCTTTTTTGTTTGTTTAAAGCAGTTTGTGGACTAT
CGGATCTTTATTTAGAATGAACAGTTGCACAACAACAAAATGGCTCTTCCATACAAAATC
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Sequence=10227;DNA;Homo sapiens

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TCACAGACAGAAAAAAGGAAGTTAATGTATCTCTTGATCACTATCAAGATGTGGTATTGA
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TABLE 2

1633/3461

CCAATTTCTTCGATCAATGTAATCCTCATAAGTAAAAGTTATTTGAGGACCTCAGACATT
TTTAAAAATGTAAAGGGGGTGGGGTCAGGCTCAGTGGCTCATGCCTGTAATCCCAGCATT
NTGGAAGGCCGAGGCGAACGGATCACTTGAGGCCAGGAGTTTGAAACTAGTCTGGTCAAC
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TGTAATCCCAGC

Sequence=10228;DNA;Homo sapiens

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TATATAAAGGATATAAGCTTTTGCCCTGTATACTCAGGAATTAAACTAAAAAGAAATCTA
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GTTTTGTTTTGGNNAAAAAAA

Sequence=10229;DNA;Homo sapiens

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Sequence=10230;DNA;Homo sapiens

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CTCCCCCTAAATCCACATCATTTGGCAATTTC

Sequence=10231;DNA;Homo sapiens

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AGCAGGGCTGTTCCCAGAGGATGACTGTCCTTCCGAGGAAAGAAGACACAGAGCTGGTTA
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Sequence=10232;DNA;Homo sapiens

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Sequence=10233;DNA;Homo sapiens

TABLE 2
1634/3461

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CACATCTCACAGAAGAGCTAGCTATATATGGGCTGGGTGGTCTTCAGTGAATCTGCAAAT
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GAAAACAAAGGGTTCTAGGTGTTCAGAAGTCAAATACATCTCAAGGCTAAAAAAAAAAAA
GAAAGTACCTGCCCGGGCG

Sequence=10234;DNA;Homo sapiens
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GAAATCCTATCACTAAATACAGAAGCTACTCACAGAACACTGATTACTTCAGTGGATAGA
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TTTCCGCCCCCAACA

Sequence=10235;DNA;Homo sapiens
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TGGAGACACACTTATAATCTCAGCACTCAAAAAGCTGAGGCAGGAGAATTGCAGCAGGTC
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Sequence=10237;DNA;Homo sapiens
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TGTAGTTACTGGGATTATCCAGATACACTATCAATGATACAAATTCATAGGAGTATTAAT
GCATTTCTTTAAACACAACTTGATTAAGAAGCAAATATGTTAAGCAGTTTTCTTTTTCTG
CTGCTAAATTACAGTTAGACACTTCAGTATCTTCTCTTTACATGTGTATATAAATTAGTA
AGAACCTGCATCCAAAGCAATGTAGTGTGTGTATGTATCTATATATATTTATTCTAACTC
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Sequence=10238;DNA;Homo sapiens
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ATTTATTGGTGTCCGAGTTTCCTGGCAGTGTATGAATACATGGGTCGAAATGAACTGGCC
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Sequence=10239;DNA;Homo sapiens
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TABLE 2
1635/3461

TAGATCAACTTTAGCTCAGCAAGGAACACCAGTGTATTCAGTAGCGTGGGGCCCTGATTC
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CAATGATCTTATTTTATCT

Sequence=10240;DNA;Homo sapiens
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GGTGTGGAAAAAANCCTCAGTNGGTCATTCCGCTCATTCACCTCATGCGAGCTGGATCCC
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Sequence=10241;DNA;Homo sapiens
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GACCCCCGGGCACCCTGCACATATAGCGGCAGTCCCCACCGGCGTCACCAAAACCTTGGA
TCATCTTGGTGTATAAATGTCAGCATCAGCTGGCTGGCAGGTAAAAACAAACAGAACACA
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Sequence=10242;DNA;Homo sapiens
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TABLE 2

1636/3461

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Sequence=10245;DNA;Homo sapiens
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GCCTAGTGTGTTATTGACA
Sequence=10247;DNA;Homo sapiens
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TABLE 2
1637/3461

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Sequence=10251;DNA;Homo sapiens
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TABLE 2

1638/3461

TCAAGTAGTCAGCAGCCACGTGACTGGTATAGTGGCTCTGGCCATCTTTTCCTCATGTGG
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TABLE 2
1639/3461

AGGTACTNNNNNNNTNNNNNNNNNTTNNNNGNTNTTTCGATGGGTAAAAAAATTTGGGTTTT
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TTAAT

Sequence=10263;DNA;Homo sapiens
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Sequence=10264;DNA;Homo sapiens
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Sequence=10265;DNA;Homo sapiens
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GGGTGAAGGATAAACC

TABLE 2
1640/3461

Sequence=10269;DNA;Homo sapiens
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Sequence=10271;DNA;Homo sapiens
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Sequence=10274;DNA;Homo sapiens
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TABLE 2
1641/3461

GCATCTTCCTCTACAGCTACAGCTTCCACACAGACGCAGCATTCGGGAATGTCCCCGTCA
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GACATTGTGAGGCTGGA

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TABLE 2
1642/3461

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TABLE 2
1643/3461

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TABLE 2
1644/3461

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Sequence=10291;DNA;Homo sapiens
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TABLE 2
1645/3461

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Sequence=10301;DNA;Homo sapiens
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TABLE 2
1646/3461

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CACA

Sequence=10303;DNA;Homo sapiens
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Sequence=10304;DNA;Homo sapiens
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C

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TABLE 2
1647/3461

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NAAAAAA
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TABLE 2

1648/3461

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TABLE 2
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TABLE 2
1650/3461

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TABLE 2
1651/3461

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TABLE 2
1652/3461

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TABLE 2

1653/3461

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Sequence=10345;DNA;Homo sapiens
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TABLE 2

1654/3461

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Sequence=10346;DNA;Homo sapiens

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Sequence=10347;DNA;Homo sapiens

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TABLE 2

1655/3461

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Sequence=10351;DNA;Homo sapiens

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Sequence=10353;DNA;Homo sapiens

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TABLE 2
1656/3461

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Sequence=10359;DNA;Homo sapiens
GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT
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GTTTTTTAAGCAAAGTTTTATTGGAACACAGCCATGCTCTCTTGTTTATGTATTGTCTAT
GGCTGCTTTCTCACTGTAATGGCAGTTGTTAGTTGTTAGTAGTTGTTACAGAGAAAGTAT
GACCTGCAAAGCCAAAAATATTTACTATCTGTAAATATTTTGGCTACATTATGCTACTTC
TGTGAACCTCCACAGACTTCTAATTCTACGACTCAGTTATTCTAAGACTTTAGTTGGAGG
AGAGTGACACAGCACAAGCTAGGTTTTGAAAACCTACTTTCTTCTATACTAACAAGAAAT
GAGGGCAGCTCTAGTGCTACTTAGCTAAAGCAGATTTCAAAAAGTCCTAGGGAGAGCTGG
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AACCCAGGATTTTGTCT
Sequence=10360;DNA;Homo sapiens
GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA
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CATTCACAAATGTGGAGGTAAAAACTAAGAAAATGTTGAGGTTAAGTCACACACTTAAAA
ATAGAAGGCAACATATAAATCAAGTTAGTCTGATTTCAAAATTGAGTGTGGGCCTTGAGA
AAGCAGGAATGACAGATGCAAAGATAAAGCACTAGAGAGAGGACCAGCCTATCTGGAGGG
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GCCAGCACACTGGCGGGCGTTACTAGTGGATCCGAGCTCGGTACCGAGCTTGGCGTAATC
ATGGTCATAGCTGTTTCCTGATGAAGAGTATCTGGGCTGGAAAATTTTGCAAAGCTGGTT
TACATGAAGGTGGTTTTGTCCCAATTTCAGACAATTCCTCCAACATGCATTTTTTGGTAT
AAAACTGGTT
Sequence=10361;DNA;Homo sapiens
TGCATGCTCGAGCGGTCGTCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTC

TABLE 2
1657/3461

GCGGCCGAGGTACTGACATAGGAAGATCTATTGCAAAGAGAAAAATGCTAACAGCAGAAG
GGTTGTCTCATATGGTCAAAGTGCTAAAACATACTTTAGGAAAAAACTGATGAATATGCT
GTTGACTTTTTCTGGGGGAAAGGGATTTTAATTATGGGGGACTTTAATTTTCTACATTAT
GTTTTTAAATAATGTTTACACTTACATAAGTCTAATGTTTTAAAGTCATAAAAGCGATAG
ATTTAATTTTCATTTTTTAAAGTAGTAGGATCTCATTTACAATAGTAACCACACTAAAAA
AATCACCTATACTAGAAAAGATAGGCTGAGAAACATAAAACATAAATTTACTGAAAGGTT
AAATATTATAAAGATGTTAGTCCTCTTGTGTAAAATATGTAAATTTTACTCAATCCAATT
TCTAATTTTTCTAAACATAAAATTA

Sequence=10362;DNA;Homo sapiens
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GCCCTTAGCGTGGTCGCGGCCGAGGTCACAACTTCACCTTAAAATTAAGAATCCTTGTCA
AAATGTTTAACCTAAAACAAATCATTAAAAACAATGAGACAGATCTAAAATGTGGAAGGC
TTGTATTCTTCCAAACCTCACTGACAGGACAAACAAAAAGAAGGGGAACCATTCTAGATT
AAGACAGACTAAGAGAAATATCAAACCAACTGCGATTCATAAATCATTTGGGGATGTTAC
ATTAGAAACGGCGGGGTGGGAACTACAGAAGACATTTTTGGGACAAGTTTCAATATGGAC
TATAAAGTAGCTGACATGAGATTACTGCTAATTTTCTTAAGTGTGATAAAATCGTGGTTA
TGTATGTGAATGTTCTCATTCTTAGGAAATTCATGCTGAAATACGTAAGAGATAAAGTAT
AATATCTAC

Sequence=10363;DNA;Homo sapiens
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
GATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACATCAATAAAAA
GGATTATGGTGTCACACCTGAATACATATGTAAGCGAAACGAGGAAATAAAGAAAGCCCA
AGAAGACTATGATCGTTATATCCAGGAAAACCTTAAGAAAGCAGCTATGAAAAGGCTCTC
CGATGAAGAAAGGGAGGCAGTTTTGCAGGGGCTGAAAAAGAACTGGGGAGAGGTGCATAA
AGAATTCCAGTCCCTCTCGGTCTTTATAGATTCTATACCAAAGAAGATCCGCAGGCAGAG
GCTGGAAGAAGAAATGAAACAACTAGAACACGACATTGGCATAATTGAAAAGCACAAGAT
TATNTATATTGCCAATAAGTAAGAATGGATCTTTAAAGTATAACAATTTCAATGTAAGGG
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ACTTACA

Sequence=10364;DNA;Homo sapiens
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TTCTGTAAGATGCTTCTCTGTCTTTTCCTCTTTCATCTAACAGCCACAGAATGCAGCTAT
ACTTACCCCAGGGTGAGGAGGTAGTCCCTGGAAGGATAATACTACATTTAGTTAAGAAGG
CTCCCAAGGTTAAGTAGAGTTACTTGGTCCCAATTTGGCTCATCTCTCTGCCTTTGAACA
GTGTGTGTATCTGCCTCCCATGCCTCTTTTCTTCTCCCTC

Sequence=10365;DNA;Homo sapiens
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GCGGCCGAGGTACGCGGGACATATGTTTTTATATCTCTTGCATATACCCAAGAGTGAAAT
TGCTGGGTCAGGTGGTTAAGGCGTAAGAGTTCTTTTTATGGCCAGGCACAGTGGCTCATG
CCTATAATCCCAGAACTTTGGGAGGCCAAGGCGGGCTGATCACCTGAGGTTGGGAGTTTG
AGACCAGCCTGACTGACCAACATGGAGAAACTCTGTCTCTACTAAAAATACAAAATTAGC
TGGGTGTAGTGACGCACAACCTGTAATCCCA

Sequence=10366;DNA;Homo sapiens
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TATTCCCTTGTCTTGGCTCCATTCTGGGACGGAGAGGAAAGACAGGTGCCTGAGAGCGGA
GNCCGCGTACCTCAGCTGCGCAGCCTGTAACCAGTTTTTTTAATGTAAAAGTAAGAATGC
CAGCCTTAACCTAGCCCTGCAGATAAAAGCTAACTTTTATTAATACCAGCCCTGAATAAT
GGCACTAATCCACACTCTTCCTTAGAGTGATGCTGGAAAAATAAAATCAGGGGCTTCANA
TTAAAAAAAAAAAACAAAATAACAAAAAACAAAAACCAACATTGCCTGGCCCTGAGGGTC
TGTTTGCAAAACTTCTTGTAAATCTAATTTCTTAACACTCACTGC

Sequence=10367;DNA;Homo sapiens

TABLE 2
1658/3461

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTAATATTATGTCATTTATTTG
GTTCCTAGTATACTTGCCCTCCACTTTATATAAAACTAATTTATGAAAATCTGGATTTAT
TTTAAAAAGATATCTTGCCATGAAGGTATTTGTTTTATAGAAATATTTACCTCCAGATTT
CTTTCTCTAATAAGATGGTGAATTTAAAACACTGTGTTATTTAGAAACACTGCATTTACA
CTTCATTTATTGTATAAAGCAAATTGCATTGAATCTTCGCCACTTGACCCAAAGGCCAAA
AATTGACATGAGAACAATTTGG

Sequence=10368;DNA;Homo sapiens
TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC
TGCAGAATTCGCCCTTAGCGGCCGCCCGGGCAGGTACGCGGGGGGCGACGGCGATGGGAC
CCCAGCGAGAGATCTGCAGCTAGGCTGGCTGCACTTGCTCCACGGGTCAGGGGATCGGAG
GGGGATTGAAGAATGCGCCATTAAAAGGAAAGATCAAGGAGTAAACCAGAAGAAGAAGAA
AAAGAGGACTTCAAAGCTGGGAAGGATGAGTTCTTGCAGCAACGTCTGTGGGTCCAGGCA
GGCACAGGCTGCAGCTGAGGGTGGTTACCAGCGCTATGGAGTCCGGTCCTACCTGCACCA
GTTTTATGA

Sequence=10369;DNA;Homo sapiens
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AGTTAACTATCTGCAGTAACATGTGAAATAGAATTGTTATATTACAATTATTTTAATACA
GCTTCATTTTGAAATTCATCATAATGTAGAGTTGACTAAAATAAAGCTAAAGGGGGAATT
ATAACCGAAAATAAACAAAACACCCAGATCACATACCACTTCCCCAACACACACATTGCA
A

Sequence=10370;DNA;Homo sapiens
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AGGATCAGATCAAAACTTGTAATTTTTTAGTATAAGGTTCACTCTGGCAGGGAGAAAGAA
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TATTTGTCACATAAAGAGAATTTTAAGTATCTTCTA

Sequence=10371;DNA;Homo sapiens
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AGTAATTCTCACAATTGGTTAGACAATCATTTTTTTTCTTTTCTTTTCCTCTCATTTAGT
CTCAGAGCCTAAAAAGAAATGCCTCCAGTCTCTGTTAGCCCCGATGCTTGGAATGAAATT
AACAAGATTCTACCTTAAAAGAGAAAACTTATGTGGGCTTTTCAAATTGTGAAAATTTGT
TCCCTCTTATAAAATATAATCTTTCCCCTGCTGCTGGTTTATAAATATGGGCATATAGCC
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C

Sequence=10372;DNA;Homo sapiens
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AAGGTAATCCAAAAAGAAGGCTCTTTTAGATGAAAAAACATGGATAGATTATTAAGCGCC
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TACCATTTTGTAATTCCACTTGATAATGG

Sequence=10373;DNA;Homo sapiens
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TABLE 2
1659/3461

CTTGTTATATATAAAAAGAAGAACATCTGCAGGACAGCTCTAGAGTCACAAGGAAACCGG
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GTTTTCTCATGTGTAAATTGGGAATAAAAACAGCATCTACCTTATAAG
Sequence=10374;DNA;Homo sapiens
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CCAGGCTGG
Sequence=10375;DNA;Homo sapiens
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CTTTAATATTTAAGATCTCATTCAAAAAAAATTTTTCTGATTTCCCTCATACCCTCTCTG
TCTGAAATATTTAAGATCTAAGGAATAGTTGAGCTGCTTATTTTACATAGAGGCACTATT
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TTGGGCTGCATTGGCCCAAGCTTGGATTGCCCAAAGAGAAGCTTCAGGACAGCAAAGCAT
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GTTATAGCCAACAACCAGACAAACTAGTGAAGTTAATCTGTGAGTGATGATTTTATGATA
CTT
Sequence=10377;DNA;Homo sapiens
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GCCGCT
Sequence=10378;DNA;Homo sapiens
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Sequence=10379;DNA;Homo sapiens
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Sequence=10380;DNA;Homo sapiens
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TABLE 2
1660/3461

GCTCTGAGCTCAGGATTTCACGTGAGGTCCTTTGTTCGGGAGGCAGGGGGGTTCTCCCTG
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GTTCTGCTGGAGAATGAAAAGGGATGGGTGGCCTGCGTGAAACCTCTTTATGGGGCTTGT
GCTTTCTGACACTGT

Sequence=10381;DNA;Homo sapiens
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GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTT
TTTTTTTTTTTTTTTTATGGGAAAAATTGCCATCTGACAAATGAATCATAGTAAGGATTAA
CATCAGTGGTGATGAAGGAACGACGCCAGTCTACCTTCAAACCCATTCTTTTTAAATCCT
GAATAGCCAGTGGCGGGAAATAATCAAGCCAATGTTCTGCTTCAGAAAATTTTACTATCT
CTTCATCAGACAGGCCAAGGGATTTCATAATGCCCCACTGGTATTTAGAAGATCCAGCTT
TAGCAACAGCTTTACTCTTTTTTCCTTTAGCTTTATCCTTAATTA

Sequence=10382;DNA;Homo sapiens
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CAATGGGGCTCTGCTTTACTTCTGCCTTCCATATCTTGTGTCCTGCATCTTAATGGTGGA
ATCAGATTTGTATCCAGAATACTAGCTATAAAGGAGTCTGGAAAAGACAGTTTTTAGTTT
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TCCTTTCCCAAGCACTCATCTTCTTAAACATAGTATATTAATTACAATTTAGCCCATTCT
TGATGGCTCATTGTCATTTCTGTGAGCTTCTCTTTTCATAATGGCCTGTAGTTGGAATAA
TCATAGGGCCAAGGGATTTTAACATCTGTAGTAACTTTTTGTCCTAGGTTAGCTTGTATC
TCTCCCACCTTCCATAACTGCTGCTGAGACATCTATGTTTGATATCATTTGACGTCAACC
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Sequence=10383;DNA;Homo sapiens
GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC
TTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGACCACAAAGAACATGTGAGTCTTGTGAA
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GCCCCTAGTGGCGAAAGTGCGGATGCGAAACCGCTGGCTCGGCGTAAGAGCAGAGCCGCG
GAAGAGAACCCTAGCGGCGGGGAACTAGCTCGCCTTCAGTGCTCACGGGAGAAGGCAAGT
TAGAAAGAACCTGAGACGTGACACTGAAAATCAGTAGAAGAAATACGCCACATTTATTCT
ACCGG

Sequence=10384;DNA;Homo sapiens
GGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCC
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GGAGCTGGGAAGTCCAAGGCCTCTTAGTGGGAAAGTGAGGCAGGGTCTTGCAGAGCCCAC
TCTACACACGGCCAGATACAAATGGCTGTAGAGGTCTTAGATAACACCTTCTCGGTCATT
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Sequence=10385;DNA;Homo sapiens
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AAAGATTGAGCGCACCAACTATTTGCAGAAACGAGCTGCAGCCATTCAATTACCAAGCTG
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Sequence=10386;DNA;Homo sapiens
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TABLE 2

1661/3461

TGTGTGACTGGCATTGATGGCTCACAGATTTCTACTCACA
Sequence=10387;DNA;Homo sapiens
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CGAACTTACAATCAGCATTACAACAACCTGCTACGGGGTGCAGTGAGCCAGCGGCTGTAT
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Sequence=10388;DNA;Homo sapiens
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TCTCAGTAGAGTGTTGATGAATAATGAAATAAAATGTTTATATATGGACTAATTTAGGTT
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GTCCCATC
Sequence=10389;DNA;Homo sapiens
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TACTTTTTGAGAAAAACTTCACCATAAGTAAAATTTGAACGAAGTCAAATAACAATAGAA
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TGATAGAATAATCATTTGTAAGTTAAAGAGAAAGTTGAGCATATTAAATACCTACATTAA
AAGTATATACACACTTGGCCTCACGAGAATGACATTTAATCACACTGCCACACTTTTAAC
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Sequence=10390;DNA;Homo sapiens
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ATCACAGATGTAGCTTCAGGGCATTCGAGTTACCACTAAGATGGATATGAGTGACCCTTC
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CCTAAGAAACTT
Sequence=10391;DNA;Homo sapiens
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TABLE 2
1662/3461

ATTGCTG
Sequence=10393;DNA;Homo sapiens
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CATCTAATCATTACAGCCTCCAGCGCTACCCAGGGATCTTTAACAGTACCAAGAAGACAC
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GAAGGTGACTTCCATCCAGGACTGGGTTCAGAAGACCATAGCTGAGAACTAATGCAAGGC
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Sequence=10394;DNA;Homo sapiens
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CAAGCCAAAGATAGAAAAGAGAGCTAAGGCTACAGGAGGAATTTACTCTNTAACATTTGG
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Sequence=10395;DNA;Homo sapiens
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TABLE 2

1663/3461

AGCCAGCCCCACTGAACTATTCTTACCAGCCGCTGCCATGGCCTGCTATCTCTCAGCAGA
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Sequence=10399;DNA;Homo sapiens

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Sequence=10400;DNA;Homo sapiens

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ATAGAGGTAGGGAGGCACCTCATATGAACTACAGAGACAGGGATGCTCACGCTGTTGACT
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Sequence=10401;DNA;Homo sapiens

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TABLE 2

1664/3461

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TABLE 2
1665/3461

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TABLE 2
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Sequence=10417;DNA;Homo sapiens
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TABLE 2
1667/3461

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Sequence=10428;DNA;Homo sapiens
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AAAGGTATAGAATCAATCTCCAAGCCTTGAATAGAGCCTGATGAAATAAACGCGTTACTT
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TABLE 2
1668/3461

Sequence=10429;DNA;Homo sapiens
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TGCAACTTCCTGGAGAACAACTCAATGTCACATTAAAGTTTATTATGTATTTAATGATAC
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Sequence=10430;DNA;Homo sapiens
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Sequence=10431;DNA;Homo sapiens
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TABLE 2

1669/3461

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GTTTT
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AATTTTGCTAGTG
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TABLE 2
1670/3461

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GGGGAAAGCATCCTGAAGGTGAACCTGGCTAGACTCACCCTGTT
Sequence=10442;DNA;Homo sapiens
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TABLE 2
1671/3461

Sequence=10448;DNA;Homo sapiens
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Sequence=10454;DNA;Homo sapiens

TABLE 2
1672/3461

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Sequence=10459;DNA;Homo sapiens
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TCT

Sequence=10460;DNA;Homo sapiens

TABLE 2
1673/3461

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AACCTTATAGGAAAGGAGGTCAACTTGCCCCAGTGCCATGAGCTCAGCACTACAACCTGG
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Sequence=10461;DNA;Homo sapiens
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Sequence=10462;DNA;Homo sapiens
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Sequence=10463;DNA;Homo sapiens
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Sequence=10465;DNA;Homo sapiens
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TABLE 2
1674/3461

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TABLE 2
1675/3461

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TABLE 2
1676/3461

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TABLE 2
1677/3461

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TABLE 2

1678/3461

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TABLE 2
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TABLE 2
1680/3461

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TABLE 2
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TABLE 2
1682/3461

Sequence=10510;DNA;Homo sapiens
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TABLE 2

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TABLE 2
1684/3461

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TABLE 2

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Sequence=10529;DNA;Homo sapiens

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TABLE 2
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TABLE 2

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TABLE 2
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TABLE 2
1689/3461

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Sequence=10555;DNA;Homo sapiens

TABLE 2
1690/3461

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT
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AAGCCTCTTAGCCAGTTGGATAAATATTTGGGGTCACCTAGCCATTGAAAGCAGAAAGCA
GTAGTGACACAGCTTTCCCTTCAAAGAGCCATTGAGAAACATTTCTCAAACAGGAAATCC
TTCTTTTACTAATGTGGACATATAGATTATTCGTATTATAGTTTGTAGAACTACCTAGTT
CAGAATCTTGACTGCCAGTTTTCTTGGTTTCTTAGGCTTGAATTTTCATAGACAATTGCA
ACAGTTTAGATGCCTTTTGAAAGGAATGCAATGAAGATTCAGCATCTGACTATATGTGTG
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Sequence=10556;DNA;Homo sapiens

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TCACCTGGCACTTATTTGGCACCATAAACCACGCTGGACTAGAGACTGAGATATCCTTAC
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TCCTTGAGTATATTTGCCTCCTCAGCTGGGGTTTCTCGTCTGAAATCACAGAACATAGAA
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Sequence=10557;DNA;Homo sapiens

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Sequence=10558;DNA;Homo sapiens

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Sequence=10559;DNA;Homo sapiens

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TABLE 2
1691/3461

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Sequence=10560;DNA;Homo sapiens
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Sequence=10561;DNA;Homo sapiens
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CCAAGCTTGGCGTAATCATGGTCATAG
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Sequence=10565;DNA;Homo sapiens
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TABLE 2

1692/3461

CGGCCTAAAATTTTCTAGAAAAGTAGATCTTATGTTACTTCTTACCACAAATAGTAACAG
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TTACATTTAAGTTATTGTTACCT

Sequence=10566;DNA;Homo sapiens

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GATTGCTCAGAAAAAAAAAATTCTCTGAAACTTGCTTGATTAAAAATTCTGTC

Sequence=10567;DNA;Homo sapiens

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CCTTACCAGTCGAGTGTTTCTAGAGGAAGGTCATAGACTAATAGGCTAATAGTCTATGAC
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ACAG

Sequence=10568;DNA;Homo sapiens

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TGCATCCTATGAGGACTCTTCATTTTATCCCTGGTTTTGTGAGGGCTTTTAATCATGACT
CAATGTTGGGTTTTACTAAGTGCTTTTTCTATTAAGATGATCATATGCATTTTTCTTTTT
AGTCCACTAATATGGTAAAGTTCATTTATTGATTTTTGAATGTTAAATCAACTTTATCTT
CCTGCAATAAAGTACAACTTTAATGCTATATGAATTTTGCCATTTTGCTAACACTGGTAT
GCTCCGGGCATCCACCATCCCACTGGAATTATTTATTCCGTTCATATTAATTTTTGTTAC
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Sequence=10569;DNA;Homo sapiens

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Sequence=10570;DNA;Homo sapiens

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TABLE 2
1693/3461

GCTGTTCAATTTGGCATTCCTGTTGGGGGGTGGACAGTGATTGCTGGAGGGTTTTATTTG
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Sequence=10571;DNA;Homo sapiens
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Sequence=10572;DNA;Homo sapiens
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Sequence=10575;DNA;Homo sapiens
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TABLE 2
1694/3461

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Sequence=10576;DNA;Homo sapiens
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Sequence=10578;DNA;Homo sapiens
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TABLE 2
1695/3461

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Sequence=10581;DNA;Homo sapiens
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Sequence=10582;DNA;Homo sapiens
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Sequence=10586;DNA;Homo sapiens

TABLE 2
1696/3461

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Sequence=10587;DNA;Homo sapiens

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Sequence=10588;DNA;Homo sapiens

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TABLE 2
1697/3461

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TABLE 2

1698/3461

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TABLE 2
1699/3461

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TABLE 2
1700/3461

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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2

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TABLE 2

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Sequence=10641;DNA;Homo sapiens

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TABLE 2
1707/3461

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TABLE 2
1708/3461

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TABLE 2
1709/3461

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TABLE 2
1710/3461

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TABLE 2

1711/3461

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Sequence=10671;DNA;Homo sapiens

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TC

Sequence=10672;DNA;Homo sapiens

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TABLE 2
1712/3461

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TABLE 2
1713/3461

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TABLE 2

1714/3461

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TABLE 2
1715/3461

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Sequence=10690;DNA;Homo sapiens

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Sequence=10691;DNA;Homo sapiens

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TABLE 2
1716/3461

Sequence=10695;DNA;Homo sapiens
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TABLE 2

1717/3461

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Sequence=10701;DNA;Homo sapiens

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Sequence=10702;DNA;Homo sapiens

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Sequence=10703;DNA;Homo sapiens

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Sequence=10704;DNA;Homo sapiens

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Sequence=10705;DNA;Homo sapiens

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TABLE 2
1718/3461

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TABLE 2
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TABLE 2

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Sequence=10719;DNA;Homo sapiens
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TABLE 2
1721/3461

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Sequence=10725;DNA;Homo sapiens
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TABLE 2

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Sequence=10731;DNA;Homo sapiens

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Sequence=10733;DNA;Homo sapiens

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GGCCTGAGGGAGATCAGTTGGCAACCCAAGTAGAAGGGGCCCATGCTGCTCTTCTGGAAC
AAGGGTCAGGTGCTGAAGGACCCCCTCGGTGGAGTTGAATGTAGCTGAGCCCTTGCCCAT
ATCTGGTGAATACTGGAGATTGGAGATGGTGAAGTTGAGTGTGAGGGTCTTCAGGTGGTA
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Sequence=10734;DNA;Homo sapiens

TATAGGGAGTCGACTCAAGCTCTTTCTTTCTGTTCAAGAAAGGTGATGCCTATCCCTACA
TGCACCAAAGATTAAAGTTCCAAGGTCCACAATGTAAGGCAGAATTCTCCCTGAGTGCTG
TGACCCCAAACATTGGGGGTATCTTTACGTGCTTTGGTTCTCAAAGCTCATCTCCTTACC
TGTTGTCACACCCCAGTGTTCCTGTGGAGATCAAAGTTTCAGGACTGGCAAAGTACCAGA
AGTCTTTGATATGGGTCTCCGTAGTCTTCTTCCTACTGTTCTTTGTCCTCACCCTCTTCT
TTTTCCTCAGACTCTGGCATCAGAACAAGCACAGGAAAGGAGTACAGACAAAGATTGACT
TGCAACATCCAGAAGGAGCTGTAGAGCCAAAGAGCATTGTTGGACACCTGCAGAAGAGTT
CCAGACCAGCTCCTGCCATCCAGGAAGAAATCTTGTGTGAGAAAAGATGGCCTGGGAGGG
AGATAACTGAGGTCTCAGCATCTGATGCTACTGTGAAGGTCACAAGGTCTGCAGACAATG
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Sequence=10735;DNA;Homo sapiens

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ACAGGAGCGAAGACACAGGTGGCTTGTCTAATATCTTGCATTTTCGTCCTTATAGTCATC
TATGCAATAGGACCTTTGCTTTACTGGCTGCCCATGTGTGTCCTTGCAAGCATTATTGTT
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TABLE 2
1723/3461

AAAATCGATTGGGGAATATGGGTCAGTAAGCAGTGGTAACAACGCAGAGACTGTTGTTTT
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Sequence=10736;DNA;Homo sapiens
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CAACACTTTAAGCTTTTGCTTTAAGAAATCTAAAAAAAAAAGTGCGGCCGCTAGACTAGTC
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GTTGTTAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAAT
TTCACAAATAAAGCATTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTCATCAAT
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Sequence=10737;DNA;Homo sapiens
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ATTCACACCCACCGAGACCGATGTATATGCTTGCAGAGTTAAACACGTCACTCTGAAGGA
GCCCAAAACCGTCACCTGGGACCGAGACATGTAATCAAGCTCTATGGAGCTCTGAATCAT
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Sequence=10738;DNA;Homo sapiens
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Sequence=10739;DNA;Homo sapiens
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Sequence=10740;DNA;Homo sapiens
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Sequence=10741;DNA;Homo sapiens

TABLE 2
1724/3461

CTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTACACTTGGAATAAGACA
CTGTTCTGAATTTGTGGCATAGTTTTTTTTTTTCATATTGACATTAATAGAGGCTTCTATT
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AATTATCAGTTTATAAGCTAATAAAAACTTTGGCTTGATATTACATTCTAGTGGTTAAAT
TTGTCATAAAAGGAATATGTGCTGAGTTACTTATGTATTGTAATCTTGAGATTACAATTT
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CAAATTAAATGGGAAGGCTAAATTGGAATTCTGTTTTTCTCTCAAAATACTGTTTTTCTA
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Sequence=10742;DNA;Homo sapiens
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ATGAACCAATTTGTGTGTATGGAAGTTCCAGAAGGAGGAAAGTGAGAGGGGCAGAAAGCA
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ATGGTAAAATCCCGTCTCTACTAA
Sequence=10743;DNA;Homo sapiens
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AAAAAAAATTTTT
Sequence=10744;DNA;Homo sapiens
TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC
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TTTACTGGCTGCCCATGTGTGTCCTTGCAAGCATTATTGTTGTGGGACTGAAGGGAAAGC
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Sequence=10745;DNA;Homo sapiens
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TCTCCGTCTCCCCTTCTCCTTCTCCTTCTGCTTTCTTCTTCTTTTTTTTAGGAAGGTCTT
GTTATATTGCCCAGGCTGCTCTTAAAATCCCTGACTCAAACAACTCTCTCACCTCAGCCT
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Sequence=10746;DNA;Homo sapiens
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CTGGCTCTCCTCATCCACCTCCCTGTCCAATATATTTATTCTGTTTTCACTGGTGCCTCC
TCCTTTGCATAACCTGTGGACACTAGTCTTTTCCAGGTTTCTACTCTAAATTATCTTTGC
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TABLE 2
1725/3461

TGGGGTGGTAAACAAAACAAAGTTCTTTCCTTCATGGAGCTTATCTGCTAAAAGGAAGAT
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Sequence=10747;DNA;Homo sapiens
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GCTACATTCAACTCCACCGAGGGGGTCCTTCAGCACCTGCTCAGACCCTTGTTCCAGAAG
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GGGGCAGCCACTGGTGTGGACACCACCTGCACCTACCACCCTGACCCTGTGGGCCCCGGG
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CTCTGTTGCCCAAGCTGGACTGCAGTGGCA
Sequence=10749;DNA;Homo sapiens
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CATTAAAAAAGTGTTAGAAAATAAAAGAAAAAAAGTCTCAAAAGATAGAGCAAAAAAGTC
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Sequence=10752;DNA;Homo sapiens
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ACCACCATGGGGTTCGACGCACTTGCAACCAGCGATATTTATAAGTTTCTAAATTACTAT
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AAGGG
Sequence=10753;DNA;Homo sapiens

TABLE 2

1726/3461

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCAAGGTCAATAAC
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TTCAAGAAGTGAAGAACAAATGTAGAGAAGCATAATGATAACAAATAGAAAAAAAAAGAT
GCCCCAAAAAACAGAACTCAAGGAACAGAAAATTGTATTTTGAGTTTCCTTAGAGATTCC
AGAACATTCTGCAGTAAATAAAACAAGATCAAGCTTATGTTTTAAAAAATTATCAGAGAA
TTAGAAAATGTTACTGGAAAGAAAACCATTAAAAAAGTGTTAGAAAATAAAAGAAAAAAA
GTCTCATAAGATAGAGCAAAAAAGTCAAAAAAAATGAGAAAACTCTGAGAGAAACATCAA
AGAGAAACATCGAGATAGAGAGGCTAGAATTCCATCATGTGACTAATGCGAACTTTGGAA
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ATTTAACAACAAATATCAAATTGGGAGA

Sequence=10754;DNA;Homo sapiens

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AAATAAAACAAGATCAAGCTTATGTTTTAAAAAATTATCAGAGAATTAGAAAATGTTACT
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Sequence=10755;DNA;Homo sapiens

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ATTCTAAATGATGGTGATGTGGAGAAATGCAAAAGAGCCCAGACTCTAGATAGACACGCT
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AAAGAAAACTGCAAGATTGTCTATGTGGCCAGAAATCCCAAGGATTGCCTGGTGTCCTAC
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Sequence=10756;DNA;Homo sapiens

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GAGAAAACTCTGAGAGAAACATCAAAGAGAAACATCGAGATAGAGAGGCTAGAATTCCAT
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Sequence=10757;DNA;Homo sapiens

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Sequence=10758;DNA;Homo sapiens

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TABLE 2

1727/3461

TGTTTATACAATCATATATATGAGACAATGAATATTTATGCTCATGTACCTCGGCCGCGA
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ATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTG
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Sequence=10759;DNA;Homo sapiens

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Sequence=10760;DNA;Homo sapiens

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CCAAGCTTGGCGTAATCAT

Sequence=10761;DNA;Homo sapiens

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AACATGGGCAGATAATGTTATAATCTTGGGGCAGAGAAGGCCTTTCTAAGCATAACTCTC
AACCTAGTGACCACAAAAGAAAAGATTAATTATTTGATTTCATAAAAACTAAAAGCTTTT
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Sequence=10762;DNA;Homo sapiens

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Sequence=10763;DNA;Homo sapiens

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Sequence=10764;DNA;Homo sapiens

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TABLE 2
1728/3461

AATCTTGTTCAAGAGTGAAAGCCAAATTTTATCCTTGCATTATTGCCATTTACTACTGGT
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Sequence=10765;DNA;Homo sapiens
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TGTTTCTAAGATCCTTTTGGGAGCAAAGGCAAGTAAGTATTCATTAAATGTTTACCTTCT
TGACTTTAATTCACTTCAGCAGATGATAACTCAGGTGGGATTATGTTATGACAGTGATCT
GACAAGGTCCTTGTTCAGGGTAGTTACTGACTTTTCCAGTATCAACCTTCTAGATACAGC
ATGAAGCTAACATCCTTGTGTCTGAACTATATAAGGAACTGGCTTTTTTATAATTTTATG
TGTTTTGAGTTTGAGGAAGATCCATATTTTGCCAAGATGTGGCTTTTGAGACTTCCGAGC
TGAACTCATTTGGTCTGAAAACT
Sequence=10766;DNA;Homo sapiens
GGGCGAATTGGGCCCTCTATATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA
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TTTAGTGTTTGCATTTATTTTAAAAATACACAAAATAGAAGTTTTTACATCAAAGTGTGA
TAACCTGACTTACACATTGTTACATACTTACCTGGTTTTGTTTGCATCTTTCTGCAAACA
TTAAAAGGAGATGGATTGGATTCTGATTTTTTTGCTATG
Sequence=10767;DNA;Homo sapiens
ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGCCTGATCTCTCTTTTCC
CCACATTTACAAACGCCACAGTGAAGAACTTTGTTGCAAACACATGCGGCTGTGAAAAGA
ACTCTGTGCCTAAAGTCCTTTCATTTCTTTGCTGGAGTTTTTTTGAGGCAGATTCTAGAA
TTGCTGAGTCAAAGGGCAAATGCCATGTAGTTTTGTTAGACGCTGCCAAATCCTCTTCCA
TGAGGCTGCAATATTCTGCATTCCATAGTGACGTATGAGAGTCCTTGTATCCCACAGCTT
CATAAACAAAGCATGACGGCACATCTGCACGTTTACCAATCACACAGGTGAGAAATCTTA
TCCTAGCTTCACCTTTGTTTTTGGTTTGCATTTTTGTGACCAGCTTTTTTATGGTATAAT
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ACCCTCTGTACCT
Sequence=10768;DNA;Homo sapiens
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GATGGATATTTTTGTATCCCTATAAATATCCTTGATCTTTGTTCTGGGACACAGGTATTT
GGAAACAGGTTTGATCCTTCCCAGGCTTGCTTTTCAGCTTTGTTAGGCTGGGACCACGGA
AACATTTAGTCAAATGCCAGTTTTGCTCCACTATTGAGACAAACTCCTGAATACTTTATC
CGATGCCCCATGAATAATATTTTCCACTTTGGTTGAAGGAAACAGGAAATATTCCCAGCC
CTGTGTAAACCATAGGAATTGTTCCTTGTAATCACTTTGAGTGGTCCTTTCTCTGGTCTT
CAGTAATTTCCTCACAGCCATGCACTTATTAGCTGAAGACTGAAGAGGGCCACTCCGCAA
GTCTCCGGCGAGCTTTCTCTCTGCAGCTCTCTGCTCACCAGCCCTGACCCTGGTAAACTC
CAGCTACCTTGGTGTCTTCAGAAT
Sequence=10769;DNA;Homo sapiens
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GACTACATTGTATATTACACAATATACATTGCTTAAGCATCAGCAACGTGAAGCAACATC
AATGCCGTTTCTGGATGGTTACAGCAGTTATGTCAAAATTAGATTTTTAAAAGTAAAAAG
GCAAAGAAATTTGCCACATATTTAATAATTACTCTTGGGAATGACTGCAAATTAGAGATG
TTAGGTATTATTGATTCATTTATTCTTTAGCAAATGTGTATTGAACACATACTATGTATC
AGGCAAATGGATATCACCTCCCCTACTATGGAAGAATAACAGTAATCAGATAATTAAAAA
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Sequence=10770;DNA;Homo sapiens
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TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTGACACAATCACAATT

TABLE 2

1729/3461

CACTGCAGCCTTGACCTGCTGGACTCAAGTCATCCTCCCACCTCAGCCTCCAAGTTGCTA
GGGACAGGCATGTGCCACCACGCACAGCTAATTTTTAAAATTTTTCTGTAGAGATTAGGT
CTCACTATGTTGCCCAGGCTGCTCTCAAAACTCCTGAGCTCAAGGGATCTTCCCACCTTG
GCCTCTCAAAATGCTAAGATTACAGGATGAGCCACTGTGCCTGGCATGCTTTTGGTTTTT
TTCTTGCAATTTAACAAAGTGGTGTCCCATATATTTAAGTATCAAATGTATAACTGAATT
TTCTTGCTTTTCAGGGATCTCAAGGGTATTTCCCTTTGCCCACCTCACCTTTTCATATTT
GGTAAACTGTATGCATTTGCCTTCAGCCCAAGATTATAAATATGAACTGAT

Sequence=10771;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
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AGAACATCGCTGGGACGTGCCTGGCCTAAGGCATCCTACCAACAGCACCATCAAGGCACG
TTGGAGCTTTCTTGCCAGAACTGATCTCTTTTGGTGTGGGAGGACATGGGGTACCCATTA
TCTTAGAAAATCTAGTTTAAACTGTTTTCTTTCACCGCAAAAGAATTAAATGGGAAAATC
ATTTGTTTATCTCTAAGTTATACTAATTAGTAGAACCAAACAAATTATCTTCTTTTAAAA
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TGTGCCAGTAATGACAAAATTATTTTTTTGACTTGCTT

Sequence=10772;DNA;Homo sapiens

TATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTATTTTT
TTTGAAAGAGATAGGGGTCTCATTATGTTGCCCCAGCTGGAGTGCAGTGGCTACACACAG
GGACAATCATGGCCCGATCATTGCTTCAGGCTCCTGGGCTCAAGCAATGCTCCTGCCTCA
GTGTCCTGAGTAGCTGGGACTACAGGTGCATGCCACCACGCCTGGCTTATTTTTTATTTT
TCTTTTCGTGTGGCTGGGAATATTACAACAGAGACGTGGGAGTCCAGCAACAAATGGTTC
TTAAACTGCACAATTAAAATGCAACAGAGAAGGGCTTCCTTTCAATCAAAGGAATAAAGG
GATGCTTTGCTTTTAAAGGGGGCCATTCAAATCGATGACTGCTTGCCTTAATTCA

Sequence=10773;DNA;Homo sapiens

GACTCCTATAAGTACTAGAGTGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCC
AGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTT
TTTTTTTTTTTTTTTTTTTTTACTAGCACAAATGGCATTTTATTAAAGAAAATCTAATTTA
CAAAGCTTTGTAAATTTTAAGAAAAA

Sequence=10774;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTCTTTTTTTTTTTTT
TTTTGGTATTTTTAGTAGAGACGGGGTTTCACTGTGTTAGCCACGATGGTCTCGATCTCC
TGACCTCGTGATCTGCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACC
GCGCCCGGCCGACTTCTCTTTACTTAGGTGGGTATATATGCCACTAATTTGTTTGATTGT
GTTTTTCCCTTGTTTCATTTTGTTTTGGCCAAGTAATATCCTATTGATTGTATGATTATC
ACACAATTTGATATCCATTTTTCTGATGGGAGACAGGTTTACTTGTTAACTACTG

Sequence=10775;DNA;Homo sapiens

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GGGATCTAACTCACAGTATTATTATAAAGCATACTGATTACATAATTTACTAAGTAGGTA
AAGTTATCTATATTCATTACTACTTTGCTTGGAATCATTTATCTAGATTACACATCCTAT
GTATATCCAAAAGCTACCTAATACGTCTATTACACCTCCCCCTACAAACTACAAGAAAAA
CTCAAGTCAGCAACTGAGGGTGTAACGTGCCTGCCCGGTTCAAGCGATTCTTGCGTCTCA
GCCTCCTGAATAGCCAAGACTACAGGCACACGCCATCACACCTGGCTTATTTTTACCTTT
TTTTTGTAGAGTCAGGGCTTTGCCATGTTGGCCAGGCTCGTCTTAAACTCCTGACCTCAT
ATGATTCACCCGCCTTGGCCTCTCAAAGTGCTGGGATAACAGGCGTGAGCCACCGCGCCT
GGCCAAAATAAGTATTTTTAACATACAAGTTAAGCATTCTAGTTGTATTCCAAAGGAAAT
ACAGTATGCTCAACAAACA

Sequence=10776;DNA;Homo sapiens

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TABLE 2

1730/3461

CCCCCCAAATAGCTGGAATTAGAGGTGCCCGCCACCACCTCTGGCTAATTTTTGTATTTT
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TCCACCTGCCTTGGCCTTTCAAAGTGCTGGGATTACAGGCATGAGCCACTGTGCCCGGCG
AGTTCAAAGTTTAATTCACAGGATGCTCAAAGCAGCTGGGAAAGTGTTTTCTTTTCTTAA
TAGAATTTCATTT

Sequence=10777;DNA;Homo sapiens

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CAGAATATGCTAAACTTTTGGCCAAGAGAATGAAGGAGGCTAAGGAGAAGCGCCAGGAAC
AAATTGCGAAGAGACGCAGACTTTCCTCTCTGCGAGCTTCTACTTCTAAGTCTGAATCCA
GTCAGAAATAAGATTTTTTGAGTAACAAATAAATAAGATCAGACTCTAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAGGTCCGCGGGATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTT
TAATCCCCTGCATCGG

Sequence=10778;DNA;Homo sapiens

ACGACTCACTAAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA
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CAAGGTTTCATTTATTTCATTTAGATGATTTCTGCTGTTTTCACAGGTAACCTCCTTTCT
CACTGCCAGTGTCCCAGTTATATCTATCTTGGGC

Sequence=10779;DNA;Homo sapiens

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AAGGCAGGAGATCACTTGAGCTCAGGGGTTCAAGACCAGCCTAGTAACATAGTGAGACCT
CGTCTCTACTAAAAATTTAAAAAATCAGGTGTGGTGGTGGACGCCTGTAGTCCCTACTTG
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CGCGCCATTGCACTCCAGCTTGAGACTGTTTCAAAAAAAAAAAGCTAGGTAAGAGTAATAG
GTTAAAGTGATCCCACTGGCCCTCCCCCATCCTTATTTTTAACTTTGAAAGTTATTAGAA
ATACCTCAGGAAAGCTTTCTTGAAAGGTTATGTGTGAAGTCTTTCCCTCTAGACTAGTGG
TTCTCAATACCTATGCGGTATCAGAATTACCTGGGAAGCTTAAAAACAAACAAAACTCCA
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Sequence=10780;DNA;Homo sapiens

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TGTATATGGTAAAGTAGTATCTTAAATAGGTAGGGAAAAGATGGGCCATTCAGTATAAGT
TTGGGGGACATATAATAGGTATTTGGAAAAAAATTTAGATACATACCTTACACCTTACAG
CAGGATACGTTGCAAATGGATTAAAATTTTAAGTGAAAAAAAAAAAAAATAAAAAAAGGTA
CCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGAT
CCGAGCTCGGTACCAAACTTGGCGTAATCATGGTCATAGCTGGTTCCTGTGTGAAATTGT
TATCCGCTCACAATT

Sequence=10781;DNA;Homo sapiens

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TGGTTCTTAACCAGAGTGAGCTGACTGTGGACATAGAATTCAGAAGTTGGATGACAAGGA
AGCTCAGTGAGAATGAGGAGAAAGTTGAAACATAATCCAAGGAATCCAATAAAACAATTC
AGTAGCTGAAAGATAAAATATCCATTTTAAGAAAGAACCAAATTAAATTTTTGGAACTGA
AAAATTTACTTCCAGATCTCCACAATAGAATCTGAAGCATCAGCAGCAGAAAAATTAAGA
TGAAGAAAGAATCTCTGAGCTGGAAGACCAGCTTATACAATCAACTCAGTCAGACCNAAN
ANAAAAAAAAAAAAAAAAAAAGGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGC
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ATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAAT

Sequence=10782;DNA;Homo sapiens

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TGTAGTTAATGAAGGACGTGGTGATGTTCTTAGAAATTGCTGTGAAATGTGAATTAAAGA
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TABLE 2

1731/3461

ACTTTCCTATTTCTGGGCATCCTTGGGAAGACACATTTAATTTAAGAAATTAAAAAGGAA
GATTTATTTTTCCAAAACGCTTCCTGACCTTCACAGAATAAAAACCAATGAACCCGAGCT
TCGGAGACGACAGACTGTCGGGAATTGTAAAGATGATTTGGGCAGCGCATTGTTTGGCGG
GAGGAGCTCAGCCTTCCACTAACAGAAAAGTCTACGTCAGTATTTACTTAGAAAATTTAT
TTTAAAAG

Sequence=10783;DNA;Homo sapiens
CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT
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CTTCATGATTTAAAATAGTGTGGATGTATTATCTTACAATTTTGTATGTTAGAAACCCAA
CACAGGTCTCTCAGTAGGGTAAAATCAAGATGTCAGCAAGGCTGTGCTTCTTTCTGGAAG
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GGCTCATGGGCCCAATGGGAAATGCTGGGAAGAGTCCTTCTCATGCTGTCGTTCCCTGTT
TTTCTCTTCCAAGTTTCTCTTTATTACTTTTAAGGACTCTTGTAATTACAACAGGTCCAC
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ATGA

Sequence=10784;DNA;Homo sapiens
AGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTG
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GCTGCTGAAGAATAATTCTGAGCTGCTTAACAGACCTGGGCAAACTTCATCAACAAGAGC
TGGGATGTTATGTGTCTAAAGTTCTTTTAGGGGGCTA

Sequence=10785;DNA;Homo sapiens
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AGGATACTGGTGAGATTATAAAAGATTAATATCAGTTCTCACTTCTTATAAGCCAATAAA
ATAAAAATTAAACAAAAGAGAGGGACCAAGGATAAAAATAAAGGTAAATAACAAAAGGAG
ATACAAATGGTTAATGAGTATGGAAAATGTCTAAATCCCATAGAAATAAAACATGTACCT
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AGCTCGGTACCAAGCTTGGCGTAATCAT

Sequence=10786;DNA;Homo sapiens
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CAGCCCTGCTCTCAGAATCAAATTCCTGAAAGTGGGCAAGCGGAAGCGGAAATAAGCCCT
CTCCCAACGCCAGCTGACTCGATTTCGTCTCGGTCTTCCCCAGAGCTGGACACGAGGCAC
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GTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCAT
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ACTGCCCGCTTTCCAGTCGGGAAACCTGTC

Sequence=10787;DNA;Homo sapiens
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GCCTGGCAGTGAATCCAAGGACTCTGGGCCCCCAACAATAGATGGTAGCGTAAGTCTGGA
GCAGCGGTGTTTCACCACCAAATGCCTTTCCAGGCTGCCCTTCCAACACTCAGGAGAGCA
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TCTTGCCAAACACCAACAAGCAAGATGGTTGCAACCTGGCAACATTGAATCC

Sequence=10788;DNA;Homo sapiens
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TCATAGAAACCCCCAAAACATCAGGGAGGGTAAGTATATTCCAATATGGACCCAATCACN
AAAAAGGATTACCTGTGATTNNCAACTATCCAATACTTATNGGCTANTGCAATTTAGTCT

TABLE 2

1732/3461

GGCTTTGGGGCCTGTTTTTTACAGTGGAGGTGGCTCTCCCATGGTCGCACAATGTTGTTT
TTCTAAAGCTATCCAAGAATGGCCACAGCTAATCTGTTGGACATGGGGATCAGTATGTTC
ATGATCTTTGATGTTGTATAAATGCTGCAATCCTCCTTCTTCAATCAGCATGCTGCAATA
CCTTGAAGCTGAAAAAGAAAAAAAAACACACACAAAACAGGAGAAATAGCTTTTCTTAAA
ACACTTGAAAATTATTCCACAAAAAAATGACTTCTAGGAGCCATTTTTTTTTAACTTGTT
TGTTATTGATCACTAACATGCTACAGCT

Sequence=10789;DNA;Homo sapiens

CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA
TGGATATCTGCAGAATTCGCCCTTACCAGCGGCCGCCCGGGCAGGTTCTAGGATATTGTT
CACCCCGTCAACGGAAAGTGAAAAAACAGCGACCCCTGGAACCTCATTACATTTGAGGGA
CACGGTCACCGCCCAGTGCAGGTAAAGAGAGCAGCCACCAGCCAACCGGAAAAGGAATCC
AATGCGGGAGGCGGGAATTTTCCTTAAGAGAGAAGAAGGGCCTTCCCTTTGCTGTAGGTG
GAGTCAATCTTAACGTCTGGGCTTACGGAGAACCAAATGCCTAAAATTCTGGAAGGAATA
AATAAGGCGACTTTGGGAGAATGAAA

Sequence=10790;DNA;Homo sapiens

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GGAGAATCACTTGAGGCCAGGAGTTCGAGAACAGCTTGGGCAACATCATGAGACCTTATC
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TATTTCATATACGTTTACAAACCTGTTATAATTGGCTACCAAAATCTTCACATTTTTATC
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TTGGGATTTTTTTTTTTTTTTTTTTTTTTTGGTCATTACCCTATCATGCTCTTGTCCTTGA
ATTTTTTCTCAATTTCCTTATTATCTCCAAAAATATCTGCAGCACATTGATAAAGGGAAT
GGTATAGATAGACAATAGGGGAAAACATCCCACAAAATATTCTAACAATACTAAATTCTT
ATCTGCAGTTTTCTCTTGCTG

Sequence=10791;DNA;Homo sapiens

TACTATATGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT
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ACTGTTTCACCGGAGGCACAGATTTTAATGTTGTGACACAAGAAACATGAAAAAGCAAGG
AAACAACACCCCAAAAGAACACAATAATTCCTCAGTAGTAGACCCTAAAGAAAATAATTA
TGAAATGCTTAAAAGAAATTCAAAATAATAATCTTAAGAAAACTCAGCAAGATATAAGAG
AGTATAGATAGATAATTCACTGAAATCAGGAACACAATTCATTATCTGAATGAGATTCAA
CAGAGATAGATATAAAAGGAAACAAACAGAAATCTTGGAGCTGAATAATTCAATGAATGA
AATTTTAAAATATAATAGTGATCTTCAACAATAGTCTAGATCAAGAAGAAAAATTTCTGA
CCTTGAAGGCAAGTATTCTAAAATACTCCAGTAGTCAAAAAAAAAAAAAAAAAAAGTACC

Sequence=10792;DNA;Homo sapiens

TATAGGGCGATAGAGCCTTCTAGCATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC
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CAGGAACACTCAGCAGACACACGTATGCGAAGGGCCAGAGAAACCAGACCCAAAAAAAAA
AAAATAAATAGAAGGAGGTACGCGGGGGGCCTTATATATCAAGAGCACCATAGGCAAGCC
CCAACGCCTATATTAAGGCACATTTGAATAAATTCTATTACCAGTTCAAAAAAAAAAAAA
AAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGAAAGGGCAAATTCCAGCACACTGGCGG
CCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGC

Sequence=10793;DNA;Homo sapiens

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CTGGGGGGGTCACCCCTTTAAGGGGGAGCCCCCCCCAATGGAGAAAATAAAGCCCATGCT
TTTGGCCAGCACAGCATCCAGGGAAAGCCCGGGGGGGAGGACCCAAATAAACCCAGGGCC
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Sequence=10794;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA

TABLE 2

1733/3461

TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTCCCACACCAGCCTAGAG
ACTTCTGCTTATTTTCTGCCGCATCCTCAGTTCCCAGCTCTGAGGTGTTCACAAGCATGA
ATTCAACACTGTGCGAAAGAACTGAAGCTCACGTAGTCCACAACTTCCCCCAGTGTGGGG
TGTGTGCCACCAGTGCTACACAAAGTGTTAGGTGGTGTGCAAACATTTTGTATTTTAATA
GTTATACACTTGTTTTAATGTGAATTAGAAAAAATATAAGAAAGACAACAAAGGTGTTAT
AGATACTAATAATTAGGACAAGTTGAAAGGTTTAAAAAAATACGTTACTAAGTAAATGAT
GGTATAGAGATCATTTAAGCATGGCAAATGTAATAAAAATGACACACACACAACAGTTTA
AGTAAAACTGACTCAATGGCAAAGAAAAAAGATAGAAGCCTATAGACAGTTCCTCACAAC
AGCAGCGAAATGAGACACTGCAACTAGGAGTCCTGCTTTTCGTCCTTGGTATGTAC

Sequence=10795;DNA;Homo sapiens
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GTCTAAGTATAAGAGAAGAACTCTAACCTCCCCAGGTGATTTGGATATCTACTCTGGAGA
TAAAGTTGGTTCATCGTTAAAATATTCTGATGAAAGCAAGCATTGTAGAACACCATTGGG
CAGCTTATTCAAGCACGTAAATGTGAATTGATGATGAACTGGATTCTTTCCATGATTTTG
AGAAACAGGAAACAGAAGAAGAGTTAATTGAAAATGATTATAGAGTTAGTACCTTCTGTG
TGG

Sequence=10796;DNA;Homo sapiens
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CCCGCAGCTGTGCCGCCTCCTTGTCCTCCTCCTCATTGTCACTGCCAAACAGGTCAATGT
CATCATCCTCGTCATCCTCTGCTGGTGTGGCTGGCTTCTTGGCTGGGGCCCGTGGGCTAC
GGTATCCGGAAGCTACAGATTCAGTGTGTGGTGGAGGGCGACAAGGTGGGGACAGACTTG
CTGGAGGAGGAGATCACCAAGTTTGAGGAGCACGTGCAGAGTGTCGATATCGCAGCTATC
AACAAGATCTGAAGCCTGAGTGTGTGTACCTGCCCGGGCGGCCGCTCAAAGGGCGAATTC
CAGCACACT

Sequence=10797;DNA;Homo sapiens
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Sequence=10798;DNA;Homo sapiens
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TABLE 2

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TABLE 2
1735/3461

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TABLE 2

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Sequence=10817;DNA;Homo sapiens

TABLE 2
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TABLE 2

1738/3461

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Sequence=10828;DNA;Homo sapiens

TABLE 2
1739/3461

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Sequence=10829;DNA;Homo sapiens
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CTCTTGATGCCACCTTCAGATCCTTTTATTCTCCAGAATAATTCTTAACAGTGGTTCAAA
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Sequence=10830;DNA;Homo sapiens
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CCCCGCCAAACCCGGTCTGTTAAAGCGCGCCGACTGGGCTACAAAGCCAAGCAAGGTTAC
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Sequence=10831;DNA;Homo sapiens
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Sequence=10832;DNA;Homo sapiens
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Sequence=10833;DNA;Homo sapiens
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Sequence=10834;DNA;Homo sapiens

TABLE 2

1740/3461

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Sequence=10835;DNA;Homo sapiens

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Sequence=10836;DNA;Homo sapiens

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Sequence=10837;DNA;Homo sapiens

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TATAAAATTATCTGTGATCTCTTTTTGGTAACAAAGTCACAGATACATCTACTGCTGTTGT
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Sequence=10838;DNA;Homo sapiens

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Sequence=10839;DNA;Homo sapiens

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TABLE 2
1741/3461

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Sequence=10840;DNA;Homo sapiens
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Sequence=10841;DNA;Homo sapiens
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CATG
Sequence=10842;DNA;Homo sapiens
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CTGCTT
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Sequence=10844;DNA;Homo sapiens
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GTATTGCCTTAAATCACCC
Sequence=10845;DNA;Homo sapiens
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TABLE 2

1742/3461

GTTTTAAAAATAGTTCTGGTTCTCCAACCACCCCATCCCACCCCGGGTATGCAGCAATAG
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ACAAGAATGGCATTTTAACCAATCAATAAAAGTTTTTG

Sequence=10846;DNA;Homo sapiens

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Sequence=10847;DNA;Homo sapiens

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Sequence=10848;DNA;Homo sapiens

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CGTATCCCCTGTCCTGTTCACCATTTCTCCTTTCTCATTGTTCTCATAATATGTCCTGCT
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Sequence=10849;DNA;Homo sapiens

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GAGTCATTGGTCATCCTTGGTCTCAGTAGATCAGGCACGTTAGAACTGTGGCAGAAGAGA
TAAGAATGAAGCAGCCAAAATTGAGCCTTTGCTTCTTAGGTAATGCTGAAAAGTTTCCAA
CTTGGTCTGTTTACTCAACACTTTATTTTTCCCACTTTGCCAGCTTAAAATCAGACAGCG
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Sequence=10850;DNA;Homo sapiens

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GAA

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TABLE 2

1743/3461

TTTTTTTTTGTCCTTTTTNAAAAAGGTATCAAAGGCCTTTATTGATTTAATTTTCTTTCA
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Sequence=10852;DNA;Homo sapiens

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CAAATAGAATATAGCAGAAATAATGAGATACCACTTCCAAGATTAGGTTATAAAAATTCT
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Sequence=10853;DNA;Homo sapiens

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TGTTAAAAAAAAAAAAAAAAAAAA

Sequence=10854;DNA;Homo sapiens

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Sequence=10855;DNA;Homo sapiens

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Sequence=10856;DNA;Homo sapiens

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Sequence=10857;DNA;Homo sapiens

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TABLE 2

1744/3461

GCTCACAAAAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCC
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Sequence=10858;DNA;Homo sapiens

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TTTTAACCAGATTTGAACAGAAGAATGGCCACTTGGCCCAGGTAGAAGTAGATGAAGTGT
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AG

Sequence=10859;DNA;Homo sapiens

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Sequence=10860;DNA;Homo sapiens

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CTACCTTCTCTTCAATGAGACTGAGAATTTACACTAACAATATCTTAAACCTGGTTGCAT
AATAACTGCAGCTTCCTCAGCCCCTGGTTTACAGATCCTGAATCAGTCGGTGGGAGGTTT
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TTCCCCCTTGCCTTTTCTTTCCTTTGCCCTT

Sequence=10861;DNA;Homo sapiens

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ACAAGATCTTGTGTTAAGAAGAAAAAACAAAAAACAAAAAAAACTTGCCAATCTGATGTG
TGTGAAATGGTAGTTCATCAGTTAAATCTGCATTTTCCTTGATTTTTAAGTATCTTATTT
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ATTTTTTCTGTTGGATTGTCTTTTTCTTATTCATTTAAGTTTGTTGTGGTGCCTTTCATT
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TTTATGACTTGTTTAAGAAATTCTTCCTTAATGTCTCAACATATTCAATTTAATAATGTA
TCAGAAACTGTCCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCC
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Sequence=10862;DNA;Homo sapiens

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GACAGTGTCTTGCTCTGTCCCCCAGGCTGGAGGTCAGTGGCACAAATCTCAGCTCACTCT
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TABLE 2

1745/3461

GGGCGTGTGCCACCACGCCTGGCTAGTTTTTGTATTTTTAGTAGAGACAGGGTTTCACCA
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AGGTGTTGGGATTGCAGGCATGACCCACCATGCCCGGC

Sequence=10863;DNA;Homo sapiens

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GGTCTGTTTGGCAAGAGTCTCATCTCTATTTTCTTGTGCTTGGCTTTCTTCTTCTTCCTC
TTCACCATCTGGAAACTCCCACTGAGACTCGCCCGACTGTTCGTTTACATAGAAATACCG
TCTATGATCCCAAGTTTCAGATGTCCGGACTCCAAGTGCCAGTTTCTTCCCGGTGTTCAG
CCACTGTGTTAATCCTCCACAGGGAACTGCTACACGCTGCTCTGGTGAGGCATTCCACCG
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Sequence=10864;DNA;Homo sapiens

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TGTCTTTCTTGCACATATTCAGAGACAAATAGTTTGGAAATGGGCACTTTAGAAGCTAAA
CCTGGAATTCTGCCACCTGTAATACAGGCCAAGCAATGAAATCTGATAGGTGGAGTCAAA
GGGGTCCACTTTTGGAGGTTCCTGTGTCACTTCTCCCCCTCCCAGATGTCTCCTCATCCT
GAGTGTCATCACCAAGTTCTTGGGCCTGTACCTCGGCCGCGACCAACGCTAAGGGCGAAT
TCCAGCACACTGGCGGCCGTTACTAAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAAT
CATGGTCATAGCTGTTTCCTGTGTGAAA

Sequence=10865;DNA;Homo sapiens

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CCGGCCAAGGCACAGGTGAGTTGCAAGCATGCGACTCTGCAAAGCGGCGGCATCCCAAAC
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GTCTTAGTGGAATACTACATAAGTTGGATCCTTATGACTATGAAATGATTGAAGTTGTCT
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AGTATTCTGAAACAT

Sequence=10866;DNA;Homo sapiens

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TCTTCCACTTCATAGGTGATGTTTCGGCCGCCACAATCCGACGACCACATGAGAACTCTN
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GGCCTTTTCCCTGGAACCAAAAAAAAGTTTCCA

Sequence=10867;DNA;Homo sapiens

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TAGGAAGACAGGCTGATGGTAAACACAAAGTTCTCTGAACCAAAGCCTTATATGTATGTT
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CTCCTCTCTCTCTCACACC

TABLE 2
1746/3461

Sequence=10868;DNA;Homo sapiens
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GGATTGGCTGAGACCAGGAGTCTCCTGGGAATCTTCTCGTCTCCTGTAACCCAGTTCACG
ACAGACCCTTGGACTTTACTATATTGGAAAAATCTACATAAAACAATGTCAGTGTGTCAA
AGCATTATGTCTGTCACAAGCTTGTGAAAGGAAAATAAAAATTACTAAGCCAAAGAGAAA
AGTCAAGCTGGGAACTGCAGCAGACAAACCTGCCTTCCATTTTATTCTTAAACAAGATAG
CTAGAANGACTTAATAAAAAAAAAAAAAAGCTTCATAGAGGCCGG
Sequence=10869;DNA;Homo sapiens
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ACTGGACGTTGCCACAATGACAGAGTATTTAAATTTTGAGAAGAGTAGTTCAGTCTCTCG
ATATGGAGCCTCTCAAGTTGAAGATATGGGGAATATAATTTTAGCAATGATTTCAGAGCC
TTATAATCACAGGTTTTCAGATCCAGAGGGAGTGAATTACAAGTTTGAAAGTGGAACTTG
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Sequence=10870;DNA;Homo sapiens
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GCTCCGGATAACCAGCAGACTAAAGACATCTGGAAGAAAGTGGCAGAAAAGGAGGAACTG
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GACTACAAGAGGTTATCCCTCGGGGCCCAGAAAGGAAGAGGCGGTGAGAGGCTGCAAAGC
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Sequence=10871;DNA;Homo sapiens
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AGCTGACTGGTCCACGCACAGCTGAAGCATGAGGAAACTCATCGCGGGACTAATTTTCCT
TAAAATTTAGACTTGCACAGTAAGGACTTCAACTGACCTTCCTCAGACTGAGAACTGTTT
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GCAGGACTCAGCAGGACTATTTAAGAAACAACTGAGGC
Sequence=10872;DNA;Homo sapiens
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Sequence=10873;DNA;Homo sapiens
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TABLE 2

1747/3461

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Sequence=10874;DNA;Homo sapiens
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TGACCCCCCCCCTTTTAAAAAA
Sequence=10875;DNA;Homo sapiens
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Sequence=10877;DNA;Homo sapiens
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Sequence=10878;DNA;Homo sapiens
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Sequence=10879;DNA;Homo sapiens
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CCCGTGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCACCACACTGGCGGCCGAT
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Sequence=10880;DNA;Homo sapiens

TABLE 2

1748/3461

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GCCATGCTTGGAAGCAGATAAACCAGTTGAAGACATACTGACGTATGAGGAATTTCATCC
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GGTGGATGAATTTTATTCCAAGATAGAAGGCCAGAAAATTGACTTAAAAGCTTTACAACA
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AGCTCTTCAGCAGGCTCAGGAAATAGACAAACTGAAAGGAGAGCTCATAGAAATGAACCT
ACAAATAGTTGACAGAGCCATTCAGGTAGTTCGAAGTGCTTTAGCTAACCAGATAGATTG
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Sequence=10881;DNA;Homo sapiens

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TCTTTAGGAAACACTTTGTTTTATTATGTCAAGGTGTATGGTTACTGGCCGAGGTTTCTA
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Sequence=10882;DNA;Homo sapiens

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ATGCCTAGCTAGAGGCTCGAGTTTTTTAAAGATAGTTTTGTGGGCTAGGGAAGGGGTGGT
GCTGATTGGTTGGGGATATCATAGGGGTGTGAAAAATGGTCCTCCTGTGCTGAGTCCACT
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Sequence=10883;DNA;Homo sapiens

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Sequence=10884;DNA;Homo sapiens

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Sequence=10885;DNA;Homo sapiens

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TABLE 2
1749/3461

TTTTGTCAGGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCA
Sequence=10886;DNA;Homo sapiens
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Sequence=10887;DNA;Homo sapiens
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AATTTACCATATGACCAAACTTGGTACCTTTACCCTTTGACCCTT
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Sequence=10890;DNA;Homo sapiens
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Sequence=10891;DNA;Homo sapiens
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Sequence=10892;DNA;Homo sapiens
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TABLE 2
1750/3461

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATTAGTTCCGTCCGGA
AAGGCGGAGACAGCTCAAAGCAAGACCCCCTATTGGGGGCTTCGAAGTAACAGGTAGGTG
AGAGACAGATGGTTGCATTCTTTTGAGTTTCTGATAAGTCTTTCCAAAGGAGGCAATCAG
AATATGCATCTGTCTCTGTGAGCAAATGGATGACTTGAATAGAATAGAAGGCAGATTTGC
CCTGAGCAGTTCCCATCTTGAAGGGACCCAAGATATTTTTCTTTCACATTTTCCCCTTTT
CTTTTTTAACATCTTTGGAGAAAGCATTTTTACAACAGAATGAGTCTCCAGTCTCAGGAA
AGGTCATCTGACCTTTCCTGGCTAGGACGGTTTATTCCTAGATTGGTAGGTCTGGAAAGT
TCATTTTTAGC

Sequence=10893;DNA;Homo sapiens
TACGACTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGTTGAAATG
TAGTTATTGGAAAAGTCTGTAACCTGTGGATCATATATATTCAAAGTGAGACAAAGGCAA
ATAAAAAGCAGCTATTTTCATGAATAGACAAAGTTGATTTCAGGAAGTATAAATTATATT
CTGCACCGAACAAGGAACAGAAATTATTGCATCTGTGGAACATATATCTGGAGTTACTAT
ACTTTACTGAAGAGCAAGGCATAAATTTAGACTAAAATCCATCCAGATTACACTCATTCT
TTAGGCTACTCCTGGATACTTCATTTAAATTTGATTTTCGAGGTAGTGAG

Sequence=10894;DNA;Homo sapiens
CTATAAGGCGAATCGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT
CTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACGGCCAGGGCTATTGGTTGAA
TGAGTAGGCTGATGGTTTCGATAATAACTAGCATGGGGATAAGGGGTGTAGGTGTGCCTT
GTGGTAAGAAGTGGGCTAGGGCATTTTTAATCTTAGAGCGAAAGCCTATAATTACCCCGC
GTACGAGCTCATGAAAGTGTTGTGAAGGGCGAAGACTTTTCGCTCCCAGCTTATATGGAT
CGGCGTGACCACCCCTTGCCGGAGGTGGCCCATGTCAAGCACCTGTCTGCCAGCCAGAAG
GCACTGAAGGAGAAGGAGAAGGCCTCCTGGAGCAGCCTCTCCATGGATGAGAAAGTCGAG
TTGTATCGCATTAAGTTCAAGGG

Sequence=10895;DNA;Homo sapiens
CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGAAGCATGGCTGGGAGG
CCTCAGGAAACTTACAATCATGGTGGAAGGATAAAGGGGAATTAAGCACGTCTTCACATG
GCAGCAGGAGAGAGAGAGAGCAAAGGGGGAAGTGCAACATACTTTTAAACAACCGGATCT
CATGAGAATTCACTGTCACAAGAACAGCAAGAGGGAAATCTGCCCCCATGTTCCAATCAC
CTCCCACCAGGTCCCTCCCCCAACACTGGGGATTTCCAGTCAACATGAGATTTGGGTGGA
GACACAGAGCCAAGACCATATCAGTATCCTCACATAACAGAAGAGAAACTGAGTCATAAG
TAAATGAAGTAATGTGCCCACTTCCCACAGTCAAGAAGTGGTAGAGCTGAGATTCAGCAG
ATGAAGCCTTACTCAGAGCCTGTGCTCTGAACACCAGTGTGATCCTGCCTCCTGGCTAAA
ACCTTTGGTGGGTAGGGGAGGGAACAGCCTTATTCTCTCTATTCTTTTATCTTCAGTGCC
CAACCGCAGAGTAATCCTCATCAAACATGAAATTAAGTTCATTATTAGGTGGCTCTAGGT
CACATCTTATACTGGTCACTTTGCAATAT

Sequence=10896;DNA;Homo sapiens
CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT
AGCGTGGTCGCGGCCGAGGTACCTAGAAGTGGATTGCTGCTGACCAAGTAAGTTTTAAAC
CTAGTGCTTTTATATTACGCCCTGAGCTAAAGATAAGAACTGTGAATAAAAACTGAATTC
TGGTTAGTTGATTTTTAAAAAGAGTGGTATGAGTTATCAATTCTGAGAGTAGCTTATATT
TTAATCTAGGATTGAGCACGTGCTATTTTTGCAAGTGATGAAAGATAGCTACAGACAAGG
GAATTTGGAAAGCAGGAAATAACCCAGCAGTGCTGCAGTGGAATTAAAAGTGTTGGCTTG
TGGTCATGTTTTTAATATAGAAATAGAGTTA ITAATGTGTGGATACGTATATATAATTTT
GTATGTCTTTGCCATATCCTCCATAGAGAAGACCTAAAAGCCAGGGCACTATTACCTAGG
AACACCTTCCTACACAGAGACTGCAGCTTCTAAATAGTATTCTCCATTAAAATAAATTAC
ATTTTTT

Sequence=10897;DNA;Homo sapiens
CTCACTATANGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGATTGTCTTTTCTTGA
TTGTCAGCTTTCTTGTGGGCATCATCCAGTTGCTGTTGAAGCAACCTATTTTCACTTTGT
AGTTGAGCACATCTGTCCTCTATAGATTCCTGCTTCTTCAGCGTATTTATTTACTTTGCT
TTGTTCATTTTTATACATTCGTTCAATTTCTTTCTTTTGACACTGTGTTTGGCCAAGGTC

TABLE 2

1751/3461

TCTTTGGAAACATTCTAAAACTGACGTCTTTTCTCTGAGTGTTTCTCTTGCATGATGAAA
CTTAATTTTTAGGCTGTTAATTTTACTGTCAGCATTAGAGAGTTTTTTCAGAAACAATCT
GTTATCTTTTAGGTTAGACATATCAGAATTCATTTTCTCCTGTAAATGAACCCATTCATG
TCCTGTTCTCTGGAAAGCAAGTTCTAGGTTTTCTTATGCTGTCTGACTTTGATCACAATC
ATGTACCTGCCCGGGCG

Sequence=10898;DNA;Homo sapiens
CTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT
CTGCAGAATTCGCCCTTTCGAGCGGCCGCGCGGGCAGGTACGCGGGCAAAAATGTTTTCC
TTTTGTTTTACCAGGAATGAGTTCGGGCTATACTCTTTGAAACTGCCTTTGTGAGCAAAG
TGCTTTGGCAAGGCAAGGGTCTCCCTCAGCAGGGCTAGGTGCACTACAGCCTCTTTCCCC
GTGTCCCGTTGGATCTGAGCTGTGTAGCACTTGTTGCATTACAAAGAAAAAGACTTCTGC
AGGAAATAAGGTAGAGAACAGGCTGTCTAGTCAGATGCAGCTTGATCTGTGGCAAAACCA
AGTGTGGTCTTTCAGCTTCAGTGTGTTAACATCCCAGCACCTGGGATGGGGT

Sequence=10899;DNA;Homo sapiens
ATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTC
GCCCTTAGCGTGGTCGCGGCCGAGGTACCTCTGACTGGCACTTCTGGCTTGCTGTTGTCC
TTGGAGAAGTCTGGGCCTGGGACAGAGGAGGGATGTAATCTGAACACTCCTTTGTCACAG
GTCACCAGGGTGTGCTTGAGGGGACGGTAGACATAAACGGAATTCAGAGGCAGGGAAGAC
TGCAGAGTAGAAAGGTGATGTGCCACAAGCTCCCGACAATGGATCAACTGGGAGCTATCC
ATCTGGGCCAGGAAAAAAAAAAAAGCCACACACAGTTGATCATTAATTAACATAGGCTGC
TCTGTTATCTCTGGTGGCCATTTTTCCTCCCTGTGCTTTCCGTCCCCGCTGAGTCTTTTC
TCTCCCCACATCTACCTCCAACTCATTTATTTATCCAGCTACCCATCCATCAACATCATC
TTAGAA

Sequence=10900;DNA;Homo sapiens
ATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTG
TGATGGATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACATGTGGGCAG
GTAAAGGTGCAGTGGTTCACGCCTGTAATCCTTGCACTTTGGGAGGCCGAAGCAGGAGGA
TCACTTGAGCCCAGGAACTTGAGACCAGCCTGGGCAACAAAGCAAGATCCTGTCTCTATT
TGGAAAAAAAAAAAAAGAAAACAGGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGG
GAGGCCGAGGCAGGTGGATCACTTGAGGTCAGGAGTTTAAGACAAGCCTGGCCAACATAG
TGAAACCTAGTCTCTACTACAAATACAAAAATTAGCCAGGTGTAGTGGCATGTGCCTGTA
GTCCCAGCTACTTGGGAGGCTGAGACTGGACAAAAATTAGCAAGGTGTGGTGGTACCACA
G

Sequence=10901;DNA;Homo sapiens
TACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTGAAAAGAA
TATCAACCTGAAAAGAATATCAACTCACCCAGAAATTAGTTCTTTGAAAAAAAAGAAATT
AAGTTGTGAATTTCTAAAGACCTTGAAATAAGTGTTTCAAATTTAAAGAACAAAGAATGA
TGTGAAAATGAGATTATGATTCCTACTACATGAATTAACGTTTCGAGATTGCTGTTTATT
ACTTCCCAGAGTATCTTTAACAGTATTCTCTGAAGCAGTTCCAATCTAGTTGGAGAATTA
ACAGCAATTGATTTAACTATCTCATTTTTATTAACTGGTATTTACATTAAAAATATGTGC
AAATCATACTCATTAGTTAT

Sequence=10902;DNA;Homo sapiens
ACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG
GATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT
TGTTTTGGGGAAATGTTTAGAGACCTGCAATTTATCCATCCACTGATGAAGCTGGTTAGA
AGCTGGCAGGGAACTCCAAATTATTCTTGCATACACTGTCCCCCCTGCCTGGACATGAGC
ACAGTCAGGCAAGGTCTGCGAGTATGCCCTCCAAATTAAGTTTTCACTTTCTCTCTTTAT
GCTCTAAGAAGTTTAAGTGACTTGTACATAAACTGTGTTTCACTTCCAGATCAGTCTGAC
ACTCTCCAACAAAACCAAATACATTTCGTATGAGGCAACACAATTTTTTTTTTTTTTTTTG
AGATGGAGTCTCGCTCTGTTGTCCAGGTTGGAGTGCAAGGGTGTGATCTTGGCTTACTGC
AA

Sequence=10903;DNA;Homo sapiens
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGTGGAAG

TABLE 2

1752/3461

AAGAGAAAAAAAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAGAAGGAAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGTTCCTAAACATT
TATAATAACGGGGGAATAAAAAAAAAAAAAAAAAAAAGCTTTAAATAAAATTATTATGCA
AAAAAAAAAAGGGGGTTAATAAAAAGGGGTTTTAAAAATAAAAAAAAACTTTTAATAGGG
CTAAAAAAAAAAAAAACGGATTAAATGGGGGGAGATAATTTTAAAAAAAAATGTTGGGGTT
AA

Sequence=10904;DNA;Homo sapiens

ATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGACATAGAAAAGAAAG
ATAAATGCTTGATTCCTGATTAAAAGAATCTTAAGAGACTGATTAACCAGCTATAACACA
TGGAAATTTTCTGGATCCCAATTCAAAAGTATCAGCTGTTAAAAAAAAGTAAGATAAATG
AGATCACTTATAAGACAGTCAAGAAATATGCGCACTGATTAAATATTTGATGATATTAAG
AAAAC

Sequence=10905;DNA;Homo sapiens

GAATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTAGAAACTGATGTTTATTTTCCATCAACCATTTTTCCATGCTG
CTTAAGAGCCTATGCAAGAACAGCTTAAGACCAGTCAGTGGTTGCTCCTACCCATTCAGT
GGCCTGAGCAGTGGGAGCTGCAGACCAGTCTTCCGTGGCAGGCTGAGCGCTCCAGTCTTC
AGTAGGGAATTGCTGAATAGGCACAGAGGGCACCTGTACACTGTATGCATCATCAGTCCA
AAGTTTTTCAAAGTTCTATGTGACTGGTTGAGGAAACACTGCTTGAATTTCCCCATAGCC
TCTGCAGCGGCATCACTGTCTATGAACTC

Sequence=10906;DNA;Homo sapiens

CGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA
TTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAGAAGAGGCTATTGAGACTATGAGCTCA
CAGACAGGGCTTCGCACAAACTCAAATCATAATTGACATGTTTTATGGATTACTGGAATC
TTGATAGCATAATGAAGTTGTTCTAATTAACAGAGAGCATTTAAATATACACTAAGTGCA
CAAATTGTGGAGTAAAGTCATCAAGCTCTGTTTTTGAGGTCTAAGTCACAAAGCATTTGT
TTTAACCTGTAATGGCACCATGTTTAATGGTGGTTTTTTTTTTTGAACTACATCTTTCCT
TTAAAAATTATTGGTTTCTTTTTATTTGTTTTTACCTTAGAAATCAATTATATACAGTCA
AAAATATTTGATATGCTCATACGTTGTATCTGCAGCAATTTCAGATAAGTAGCTAAAATG
GCCAAAGCCCCAAACTAAGCCTCCTTTTCTGGCCCTCAATATGACTTTAAATTTGACTTT
TCAGTGCCTCAGTTTGCACATCTGTAATACAGCAATGCTAAGTAGTCAAGGCCTTTGATA
ATTGGCACTATGGAAATCCTGCAAGATCCCACTACATATGTGTGGAG

Sequence=10907;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT
AGCGGCCGCCCGGGCAGGTACACTGATCTACAAAAATTTTAAAATGAGCCGGGCGCGGTG
ACTCACGCCTGTAATCCCAGCACTTTGGGAGGCAAAGCAGGCGGATCATGAGGTCAGGAG
ATCAAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTA
GCCGGGTGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAAT
GGCGTGAAGCCGGGAGGTGGAGCTTGCAGTGAGCCGAGATCACACCACTGCACTCCAGCC
TGGGCAACAAAGCAAGACTCTCAAAAAAGAAAAAAATTTTTTTTTAAATGAGCTGGGTGT
ACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGA
TCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTG
TTATCCGCTCACAATTCCACACAACATACGAGCC

Sequence=10908;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC
AGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATATGCAGATGATATTATTTAACCA
GCAAACCACCTGCCATGCAATGCATTGACAGCATCAATAGCTGCAGACATTGATGGGCAC
TTCACATACACATTGACCTGAGCTGAATTTATGTCAACATAAATATGAATAACTCCTGCA
TGTTTATTACATTCTTCAATCACATCATCCTTAATCTCGGTTTCCCATCCAACTTCTTCT
TATATGTAAGAAAGTATTAATGACTCTTAAATACTATTGAAACTAACAAACTATATATAT
ACAAATGTTTCAAAAAATTTAAATGTTTTATGAATTTAAAAAAATACTTTGGAAAAAAAG
CACATTGTCAGAACG

Sequence=10909;DNA;Homo sapiens

TABLE 2

1753/3461

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA
GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACTGCCTCATCGATCTAATCTAATCC
CTATGACGACCTACAGAGATAGATACTATTATCTTTGTTTTATAGATGAGGAAGCTGAGG
CCTAATGTTAAGTAATCCCCCTGAGGACTCAGTCCTGGGAAATTAAAGAGAGCAGGATTA
GACTCAGGTCTCAGATGCCATCATCGGCGGACTTAACCATTATCCCATATTTTATATTAG
TCAAAAGAC

Sequence=10910;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT
TCGAGCGGCCGCCCGGGCAGGTACGCGGGATGGAAAAACTGCAGGAAATAGACAAGAGAA
AACCTGAAAACACTGCTGAGCTTGAGATCTTCCAAGAAGGCATAAAGGTCTTAGAAACAC
TGGTTACTGTTGCTGAAGAACACCATCGCGCTCAGCTGGTGGCCTGTCTTTTGCCCATCC
TCATTTCCTTCCTTTTGGATGAAAATTCTCTGGGATCAGCAACTTCCATAATGAGAAATT
TACATGACTTTGCTCTACAAAATCTCATGCAAATTGGACCTCAGTATTCATCTGTTTTTA
AAAGTTTAGTGGCTTCTTCTCCAGCCCTAAAAGCCCGTCTTGAGGCTGCTATAAAGGGCA
ATCAAGAAAGTGTTAAAGTCAAGAATACCAACATCTAAATATACTAAGAGGCCTGGAAAA
AACTCAAGCATTCAATTAAAGACCAGTTTTCTCTGAATTTTTTTTTTGGAATAAGTAAGCA
CCCTTAATATAATAAATACTTGATCA

Sequence=10911;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCATTCCGGGTCATCCGCA
GAAATTCCTCATAGATGGCAACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTACACA
GGGAGTCCACCCCGGTGTGGTGCCTGTTGGGGACAGACCTGAATGTTGAAACTTGACAGT
CAGAAAAATAACTCTTGATGCTGCTGTTTCGGAAGAGTTGGTTGAGCGCATCCTCAATAT
TTCTTTTGTTCCTCTGGTAATTGGTGGTGCCTGGCTGGGCTTTGTCCTGGGAATATGGTA
GGTTGGTGATGGTGAAATTCAGGTTAGAAGTGCTGGGTGCTGGAGCTGC

Sequence=10912;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGGGACAGCAAT
CTATGGCTCTCAGGCCAAATCCAGCCACTGCCTGCTTTTGTGTGGCCTGCAGGCTGAAAA
TGGTTTGTCCATTTTTAAATAGTTAAAAAGAATCAACAGAAAAACAGTATTTTATGATAT
ATACTGTATTACATATTATTTTATATAAAATTCAAATTTCAGTGTCCATAAATAAAATTT
TTGGAACAAATTGTGTATGTATTGCCTATAGCTGTTTTCACTCTACCATAGCATAGTCAA
ATAGTTGCAACAGAGATGTGTATGGC

Sequence=10913;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTT
TTTTTTAAGACGGAGTCTTGTTCAGCTGCCCAGGCTGGAGTGCAGTGGCTCGATCTTCGC
TCACTGCAACCACCGTCTCCTGGGTTCAAGCGATTCTCCTGTCTCAGCTTCCCAAGTAGC
TGGGATTACAGGCCACCACCATCATGCCCGGCTAATTTTTGTATATTGGTAGAGACGGAG
TTTCACTATGTTGGGCAGGCTGGTCTTGAACTCCTCACCTCAGGTGATCCGCCCGTCTTG
GCCTCCCAAAGTGCTAGGATTACAGGCGTAAGCCACCATGCCTGGCCAGATGATGTATTT
AAATATCATACCAAACTCTGTGTATTTATATAAAAAGAGACTGTTAAAAGACTTCATAAT
TTAAAAAAAAACAAAAACAAAAAAAAACTTTACGCTTACCATTGCTGCATA

Sequence=10914;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT
GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATCATATTGAATTAATATGAA
AAATACAGAGAATGTAAACATCTCTGAGTTAAAATATTCCCAAAAGTTTTAAAGCATGGA
TAATATATCTTTAAAATTGGATAAAATGTGCTTGGATGCTTTAAACATATACTCAAAATA
GTAAATAAATGTTTGTGGCCAGGCATGGTGGCTCATGCCTGTAATCTCAGCACTTTGGGA
GGCTGAGACAGGCAGATCACTTGAAGTCAGGAGTTTGAAACCAGCCTGGACAACATGGTG
AAACCCCGTCTCTACTAAAAACAAATAATAATGATAATAATAATAATGCAGAAAAAT
CTGGGCATGGTGGAGCATGCCTGTAATCCCAGCTACTCAGGAGGTTG

Sequence=10915;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG
AATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACATGTGTGTATGTGTATCTTTGGGAAA

TABLE 2
1754/3461

AGAAGAAGACATCTTGTTTACTATTTTTTTTGGAGAGAGGCTGGGACATGGACAATCACAT
AATTTGCTATTATTACTTCAATCTGACTTGAAGAACCGTTTAAAAATAAAATTTAGCATG
TCATATATTCCTTATAGTAGGCTTATTTCACCTTTTTTTCTGTCCAGAGAGAGTATCAGTG
AGAAAGATTTTACGGGTGAAAACATGAATTGGTGGGACTTAATAAAGAGCTGAAAAACTA
CTACAATGTGGGCTACGGTTATTATAAAATGATAGAGATGGAAACTAGAGTAAGTTTATT
TTGTCTGTTAAACCTGGAAGTGAGCTAGGCATGGTCACTCACGCCTTTAATCCCAACACT
TTGGGAGCCCAAGACAGGAGGATCCCTTGA

Sequence=10916;DNA;Homo sapiens
GACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGACGTGTCGCTGAGACTCGGGG
AGCCATTGACCATCGTCTCTGAGGATGGAGACTGGTGGACGGTGCTGTCTGAAGTCTCAG
GCAGAGAGTGTAACATCCCCAGCGTCCACGTGGCCAAAGTCTCCCATGGGTGGCTGCATG
ATGGCCTGAGCACGGAGAAAGCAGAGGAACTGCTGTTGTTACCTGGGAACCCTGGATGGG
CCTTTCTCATCCGGGAGAGC

Sequence=10917;DNA;Homo sapiens
TATACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT
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ATTTTGCACAGAAATTTTTGGCATAAGTTTATTTTCTTTCAGTTTAGTTCAGTGCATGCA
CTAATAAAACTGGTTGTTTAATTTAAAAGGAATATATAAGACTTTACCCATGTTATTTTC
TTGGTTTTTATTTCAGATGTAGATTTTGTTTTTGAGGTAAATTCGTTCTTCAGGGATTGA
ACACTATTGTTAGCAAGTGCCTAAAAAAGATGTGAAACAGTTTACATATGTCAACTGTAA
CAGTAGGTCCCAAAGGCAACTTTAAAGTTCTGGAACCAAGACGGAGGGCGAATATGGGGG
CAAATAAAAACAATAGATACCTCCTAAAACTCTTTTTCATAAGTGTTATTTAAAGCCATC
AAACTGTCCAGGTGCAGTGGCTTATATCTGTAATCCCAGCACTTTTGGAGTCTGAGGTGG
GAGGATTGCTTGAGGCCAGAACTTTGAGACCAGCCTGGGCAACATAGACCCC

Sequence=10918;DNA;Homo sapiens
CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAATATCTGTATTAGTCGTGG
TTCTTGAAAAGGACAGAACTCATAGCATAGATGAGTTTATTAAGGAGTATTGACTCACAC
GATCACAAGGTGAAGTCCCACAATAGGCCATCTGCAAGCTGAGGAGCAAGGAAGCCAGTT
CGAGTCCCAAAACCTCAAAAGTGGGGAAGCTGACAGTGCAGCCTTCAGTCTGTGGCTGAA
GGTCAGACAGCCCCTGGTAAACCATTGGTGTAAGTCCAAGGGTCCAAACATTGAAGAACT
TGGAGTCCAATGTTCCAGAGCAGGAAGCATCCAGCCAGGAAAAAGATGAAGGCCAGAGGA
CTCAGCAAGTCTGTTCTTTCCACTTTCTTCTGCCTGCTTTTATTCTAGCCACG

Sequence=10919;DNA;Homo sapiens
TACGACTCACTATAGGGCGAATTGNGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATAGAGGGGGGGAC
TTTAAAAAAAAAAGGGTTAAAACAACTTGCCAAGGAAAACAATTTTTTTTCCACCCCCTTT
GGAGGGAAAAAAAAAAAGTTTTTAATTTTTAAAGGGGGGGAAAAAAAAAAGGGGAAAGGGGG
GGCAAAAAATTTTTTTTTTTAAAAAAAAAAAAAATAAAATTTTTTTTTGGGGAAAAAAAAA
AAAAATTTTTTTTTTTTTTTTTTTACAAAAAGAATGGGTTTTTCCCCCCCCTTGGGAAAAA
GGGAAAAAACCTCCCCTTTTTTTTTAAAAAAAAAAGGGGGGGTTTTTTTATTTAGGAAGG
GATTTTTTAAAAAAAAAATATTTTTTTTGAGAATATTTTTTAAAAAAAAAAATTTGTGTA
AAAAAAAT

Sequence=10920;DNA;Homo sapiens
CCTCTACATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTC
GAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCCCCTGCATT
TCTTTGGAGTAATCAGTTATTTTTTTACTATTCCATTTTCTCCTCTATTAGCTTTTCGTT
ATATATTCTTTTTTCATTTAGAGGTTGCTCTAGAGATTACAAATACACTTTTGACTGATT
ACCACCCGCCTCCAGCCTTTTGTTCTACAGTTGTCGTATTTTTGTTTCCACATATTTTAA
ATCCCACAAGCCACAACTATTATTTTAAACAGTCAGAATTTGTATTTACTCACATTTATC
CTTACCA

Sequence=10921;DNA;Homo sapiens

TABLE 2

1755/3461

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTT
TTTTTTTTTTTTTTTATTAAAAATTTAGTAGTGTTTATTATACACAGTCTTTTAATAAATA
AAAGAGGACACGTAATAAAGATTCAGTTTTCAGTAATTTTCAATTTTCAAGACTAACAGC
CTTAATCTTTGATTGAGTTTCTAAATTCTCCACAGTATCTTTTCAGAAAATCTTTATTTT
TTAAAAAATTTTCATAGAATTCTCTTTCCATTTGATGT

Sequence=10922;DNA;Homo sapiens

TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGATTTGCTTTCT
CTTACAAAAAGAAAAAAAAAAATCCTGTTGTATTAACTTTTAAAAACAGAATTGTGTTAT
GTGATCAGTTTTGGGGGTTAACTTTGCTTAATTCCTCAGGCTTTGCGATTTAAGGAGGAG
CTGCCTTAAAAAAAAATAAAGGCCTTATTTTGCAATTATGGGAGTAAACAATAGTCTAGA
GAAGCATTTGGTAAGCTTTATCATATATATATTTTTTAAAGAAGAGAAAAACACCTTGAG
CCTTAAAACGGTGCTGCTGGGAAACATTTGCACTCTTTTAGTGCATTTCCTCCTGCCTTT
GC

Sequence=10923;DNA;Homo sapiens

CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT
TCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTAAATTGGGTTTTTGGTCT
TTTTTTCTCAATTAGAAAGGTCTTCGGAAATTAGATATATTGGCCTTTCATCTATGAAGT
ATATTACACATATCTCTCCCAATTTGTTTATCTTTTGACTTTGATTACAGTGTTTTATTT
TCTTTTCAGTCATATAAAATTTTTATACTTATAGAGACAAATTTAAGAATCATTTCTTTT
ATTGCTTCTGGACTTTGGTCGTAGTTAGAGAGCATTTCTTAACACCCGCGTACCTCGGCC
GCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTC
GGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCT
CACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATG
AGTGAGCTAACTCACATTAATTGCG

Sequence=10924;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGGACAAG
ATCCTGTCTCAAAAAAAAAAAAAAAATCCTTAAAAAAAAGATGAAAGATACTATAATAAC
AACAACCAAAATAAAAAACACTTCAGGGTGTTTATTAGCTAAAAAGTATTATCCGTAATA
CGTTTTATATTAGCCAAAATATAATATTTATCTTATGCTAACAGTACGAGGCAAAATCGT
GATTAACAAGCTTTGGAAGTTTAATACCAGTGAGCTGCGTAAGATTGCTTTAAAAAAAAA
AAGCAGTCCTGGCGCATGGCTCACCCGGCTTTGGGAGGCCATGG

Sequence=10925;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
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GATTCTGTTTAATTTATTGTGTATGTGTGGGGAAAAGATTGGATTCTAAAATAAAAGTTT
ACCCTGTGGCAAAAAAAAAAAAAAAAAAAAGTACCTCGGCCGCGACCACGCTAAGGGCGA
ATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAA
TCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTAT

Sequence=10926;DNA;Homo sapiens

CGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGG
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TAATAAGGGAACGTTCCAAAACCTCATCTGGACTTGTATTTATCTGAATCTTTTACAATA
TACTAAAGTAGTGGTTACCAAATTCTGGCTGCATTATTATTATATAGGTGTGTTATTAAA
AATAGAGAATTTGCAGCCGGGCGTGGTTGTTAATTCCTGTAATCCCAGCACTTTGGGAGG
CCCAAGTGGGTGGATCACGAAGTCAGGAGATGGAAACAATCCTGGCTTACACAGTGAAAC
ACTGTCTTTACTAAAAAATCAAAAAAAAT

Sequence=10927;DNA;Homo sapiens

TGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGGCCGC
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGGGTCTGCCTTCAATGAA
ATTAATGGTTTTAACCTAAGACTTATGTTTAGTATAATGGCTCTGAATGAGTCCCCCTGG
CCAGGTGACATCATTTCAAGATGAGACTCATTTTTAGCTCCACTAGAACTTGCTTGACGA
CCTTGAATAAGCTACTTAACCTCTCATTGACTTATTTTTATCTTCTGCAAATTGGATATA

TABLE 2

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ATAGGTTCAGCCTTCCTCATGATGATACTGAAAGATAGTTAACATAATATTTTAAAAATG
CTTTAGGACCCCAAGGAACCATGCTGTAAGAGAGCCGTTGTATTGGAAGTCAGACCCTAG
ACCACCCTTGCAACACTTAAATTGTATCATTTATGCACATCTAGATTGACCTCAGTCCAT
TTTAACTTTAAA

Sequence=10928;DNA;Homo sapiens

TACGACTCACTATAGGGCTAACTATAGCGGCGAATTGTGCCCTCTAGATCCGTGCGTCAG
GTGACGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTTTTTT
TTTTTTTTTTATGAGGCAGGGTGTTGCTCANTCACCCAGGCTAGAGAGCAGTGGCTCCAT
CTGGGCTCACTGCAGTCTCAAACCCCTGGGCTCAGGCGATCCTCCCACCTCAACCCCCCA
AGTAGCTGGGATTACAGGCATGCACCACCATGTCCAGCTAATTTTTGTAGAGATGGGGGT
TTCACCGTGTTACCCAGGCTGGTCTCGAACTCCTGAGCTCAAGTGATCCTCTCACCTTGG
CCTCCCAAAGTGCTGGGATTACAGATGTGTGCCACCTTGCCCAGCCAGATTTTATGACTG
CTGTATACTTTTGTGAGTCAGTTTTCCACAAGCAAGACATGATGATTACACCAATATGAG
TTTCATTATTTAATTAGACCTTGTTAATAGATGTAGGAGAGAAGAGTCTTTGTTCCC

Sequence=10929;DNA;Homo sapiens

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GGCCGGGCAGGTACCCGAAAAGAAAGGAAGCTATAGTAATGAAAGGATTGCTGCCAAAAT
CCTGTTTCCCCCTTGCAGATCTTACAGAAAACAGCCACAGAATCCCAAGGCATCAGCACC
AAGAGAGCCTGTAGAAACTATCTGGTCTAAGCTCCTGAAGCCCAGAGATAAGAATGACTT
AACCCAAGCTGGACAGCCTCTTAACAGTCCACTGTTAACCCCAGAAACAGATGCATTTGA
ATCTGAAAGGAGACAGGAATCCTTAATCCTACTGCTCAGGGACTTTGCTGATTTACTTTT
GCTGGCTATTAACCTTTCTGTGACATGGATTTTCTACCAAGCAAAGGCTTTTATTCAAGT
CTCCCAGAGATTTCCTATTTAA

Sequence=10930;DNA;Homo sapiens

CACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT
ATCTGCAGAATTCGCCCTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTT
TTTTTAAACTCTGATCGTTGTGGTGGTCTGAAAATATACCCACACATTTTTTGATATTTC
TCCCCTCAGGGGTGGAGCCTAATTCCTCCCTCCCTGAGTATGGGCTAGATTTAGTGACTT
GTTTCTAACTTGCAAAAGTGACAGAGTGCACCTATAGAGACTAAGTCAGAAAAGACATTG
GGGCTTCCTTTTCGCTCTCTTTTTTGGGATACTCGGGAAAAGCCCGCTTCCATTTCATGG
AACACTCAAGTATCTCTATGGAAAAGTCCATGTGGCAAGGAGCCAAGGCCATGAGTGAAGG
AGCTAAGGCCTTCTGCCAACAGCCACCTGAGTG

Sequence=10931;DNA;Homo sapiens

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GACCAAAACTGGGCACTTACAATGAAAAGGCAATTTTCTTATCCAGCTATAATCCTAAAT
AAGGCAGGATATATCCACCAAATTACCCACAAAATTCAGCAAAGTAAAATAGCTCATGGG
AAAACATAAGCTGGAAAAATACTAATAAAAAAACTGAATTACTTCGAAGTAGTCATCTGA
ATATTCACAGACTTGTTTTCATTTACAAATGTAAGTCAAAAAAGTCTCCTCATCTTTCTA
ACCACTACGAGGATTAAGGATTTAAGTTATTCACTAAGTTAATCATGAAAAAAATAGAAA
ACATTTTAATTCTAAATTTGTATACACAACAGCTAAAAGACACAAGGCTGGGAAATTATC
ACCAGGAGAAAAATC

Sequence=10932;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCACCATTTAATAGG
GTNAAGAAGANAAACCACGTGATTATAGCAGTTGATGCANAAAAACCATTTGACAGAATT
CAACACCCATACATATTTAAAAACTCTCAGAAAAATAGGAATTGAGGAGGACTTCCTCAA
CTTGTTAAAGAGCACGTGAACACACACCAAAAAAAACCCCACAACTAATGTTATACTTAA
GGGCAAAAGGTCGAAGGCCTTGTTCCTTAGATTAGGAACAAAGCAGTAATGTCTCTTCTC
AACATTAATCAACATATTGATGGAAGTTCTAGCCAGTGCAGTANNAGCTAAAATAAAAAA
AAAAAGGAAAGGGCATACAACTAAGAAAGGAAGAAATAAAA

Sequence=10933;DNA;Homo sapiens

CTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTGAGC
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GACCCCTTGAAGAGGGGGGGGCCTATGAGCCGCACCTTGTCATGTACTTGCACAAAAAAA

TABLE 2
1757/3461

ACAAGCAGTTATTACTATTTAAAATTCTATTCCTTCACCCAGTTTTCTCACTCAAGTAGA
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CTCTAAAAGTTAGGGAAAAGTGGTTTCTTGAGACTTGAAGGCAGTCATTCATCACTTTGT
GCTTG
Sequence=10934;DNA;Homo sapiens
TATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT
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CCTGGCTGCACAGCTGCTTCATTCCTCTAGTGCCTCCCAAGATCAGGGCAGGCCGTGTTG
CCCTCTGGACTTCCAAGGGGGAAGTGAGTTACTGGCCCAAGTCACTCACTCATCAAGAAC
ACTGAAGCCAGGTCTGCTGACTCCAGGGAGAGCCTTGTAGATTGTGAGGACCGAATGCAT
ATAAAGTCCTTAGTCAACACCAGCACATGGTAGGTGCTAACACATGTTGGCTACTATTGT
TTCTAAGAGAGGGTTTTCTTGAATGGAAAGAAAGGAGAAAAGACAGAGAGGAAGTCAGGA
ATGTCACAGAGACACTTTCTGGGGCACACAGGTGAGCAAGCACAGAGAGCAGAGCTGCCC
AGGCCAGCTGCTGACTTCATTCCGTGTGTCCTCCAGGGGCACTTTTAGGCTTCTTGGCAG
GATTGGGAAAGTCAATCTCATCTGGGCTG
Sequence=10935;DNA;Homo sapiens
GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGG
AGATGGAGGTTTGCTCTTGTTGCTCAGGCCGGAGTGCAGTGGCGTGATCTCGGTTCACTG
CAACCTCCGCCTCCTGGGCTCAAGTGATTCTTCTGCCTCAGCCTCCTGAGGAGCTGGGAT
TACAGGCGCATGCCACCACGCCTGGCTAATTTTCATATTTTTAGTAGGGACAGGGTTTCA
CCATGCTGGCCAGGCTGGCCTCGAACTCCTGACCTCAGGTGATCCACCGGCCTGGGCCTC
CCAAAGTGCTGGGATTACAGGTGTGAGCCACGTGCCTGGCCACTTTTCTTTTTTTTATTT
TTAAAAATTTAGTTGTATAATACCAAATTCTTCACTTGTCTTTTAACTGAAACCTTTCCC
AATTTGTGCTTTTAAAGGCATTTGAAGATAAAAAGGTTATGTAGTCAAATGGAAA
Sequence=10936;DNA;Homo sapiens
GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA
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GCAGTTGAGAGAGAACAGAATTCCAGTTGGAGGATCAAGGAATTTGAGGGAGGCAGCATG
CTTGCAGTGTTCCTAGGATTTTTACAGGAACTACAATAGAAAGTTAGGGATGAAATTATA
TTGAAAGGGGAAAGCTGGACTGCTCAGGTTTGGAGGTCATGGGGAATTCCAGGATTCAGT
ATGTGGTTGCTCTCTTATTTTTAACTTCTGCTTAGCAGTAAAACCACATCCTTCCTTCTT
CCTGAAAGTAATGTTTAACTTCCTCTCCCTGCAGCATTTCACTCTATGTAATGGGAGTGG
GGTGGA
Sequence=10937;DNA;Homo sapiens
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TACTTGAACTAGAAGCCATCTCTTAAAGTTAAAAGTAAGAAGCTCCAGGAAAAATAAAGA
TTGCATAGTAAAAAGGGATAGATGGCAGGATTAATTCAACTCAACAAATATTTATCAAAT
GTCTACTCTGGTCAGGTGCTGTGTTAGCAGCCAGCTTCCCTAAAGGGAGGAAAGGCTAGA
CACGAGGACATTGAGGATTGTTTATTTAAAGTCACTCATAGGCATGCCATAATGGATTTA
TTAAGGGGAAATTGGGGTTTCTGTGAATCTTTACAGGACATAGCCATGGAGACAATCACT
ATGTTAAGTAAGTTGCTGTTTTCCCAATTGGGCTTCAGTTTCCTGAGAACAAAAAGTGAG
GAAGTTGGATTAATTG
Sequence=10938;DNA;Homo sapiens
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
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TTTTACTTTCCAAGTTCCAACCTAACTACTTATAAACTTGCAAGTAGTTATGAATTGTGG
GTTACCTATAGTCAAATAGTAGGGTTTTTTTTTTTCAGTCAATTGGAAATGAAAGGGCAG
GTATTGGCAAGGCTTCGGGACTAATTTAATGCCATTAGGAAAGCACAAGATAATGTAAGG
GCTAAAAGCCTCAAAAAAAAAAAAAAGGTGAAATGAGGAGTTGTTGCTGATTGGTGCAGG
AACCTGAAAGATGGCACCTGAAAACTCAAATTACAT
Sequence=10939;DNA;Homo sapiens
CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA

TABLE 2
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TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACACTTGGAAGAGGGCCAAG
TGGGCAACTTGAGAGGTTAAACTGCATGGTTTGAGTTTTGATTTGAGGTTTTACGTGTTG
GCATGCATTCAGGGGCTTGTGTCCCTTTCTCCCCTGATTCTTCCCTCCGGGTAGGAGGGA
AGAATCCACCTGAGCAGTGGCCTGCCAGCACTTGAGAGGCTCCGCAAGCACAAGTGTGTT
TATGGGAGTTGTGCACATGCTCAGTTGAGGCATTCTTCCCTTACCAGTCGAGTGTTTCTA
GAGGAAGGTCATAGACTAATAGTCTAATAGTCTATGGCCTTTAGTCATACTAGTGCACAT
GCCTGAGCCCACTCACCTGTGAACC

Sequence=10940;DNA;Homo sapiens
GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA
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TTAGGCTTTTGACTTCTGGTTTTAGACTTTCTTTAGCTTCTGTTGTTAGACAACATTGTG
CAAGCTTGGTTTTTATAAGTTTGCATGGATTAAACTGAACTTAATGAAATTGTCCCTCCC
CCCAAATTCTCAGCACAATTTTTAGGCCCGCAAGGAGTCAAGCACCTCAAGGAGATCTTC
AGTTTGAACTTGGTGTAGACACAGGGATACTGATGAATCAATATTCAAATTAGCTGTTAC
CTACTTAAGAAAGAGAGG

Sequence=10941;DNA;Homo sapiens
GAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAAT
TCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAATGGTGTGATCTCAGCTCACTGCAACC
TCCGCCTCCCAGGTTCAAGCGATTCTCCTGCCTACCTCCGAGTAGTTGGGATTACAGGCA
TGTGCCACCACCCCTGGCTAATTTTGTATTTTTAGTGGAGCCGGGGTTTCTTCATGTTGG
TCAGGCTGGTCTTAAACTCCCGACCTCAAGTGATCTGCCCGTCTCGGCCTCCCAAAGTGC
TGGGATTACAGGCGTGAGCCATTGCACCTGTCCCTTGCCAGTGTGTTATTAAAATAATTT
AGGGGGTTGAGAAAAGATGCAGTGAGCCATTATTCTACTTTAGCAAGTAGTCTCTTAAAA
ATTGATGTGGATTTTAAAAAATATACCATTGAGAACACGTATTTTTCTTAAAACTTGACC
T

Sequence=10942;DNA;Homo sapiens
ACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAAATAACATCAT
AAATAACATAAATGAGAAGTTTTCAAGTATTTCAATGTGCCTTGAAAAGTTTCAAACAGT
AATTCTCACAATTGGTTAGACAATCATTTTTTTTCTTTTCTTTTCCTCTCATTTAGTCTC
AGAGCCTAAAAAGAAATGCCTCCAGTCTCTGTTAGCCCCGATGTTTGGAATGAAATTAAC
AAGATTCTACCTTAAAAGAGAAAACTTATGTGGGCTTTTCAAATTGTGAAAATTTGTTCC
CTCTTATAAAATATAATCTTTCCCCTGCTGCTGGTTTATAAATATGGGCATATAGCCCAG
AGCCATTATAAAGAAAAAACAACCAACCACAATAAACTAAGGAGCCTCATCTGATGGCTA
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TAAAAACAGTAACCTTTAACTTCTATGCCCTCACTCAGCCAGTAACTTA

Sequence=10943;DNA;Homo sapiens
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TTAAAGAAATATTTTAGAGTGGAGCTGAGAAGACTTTCTGTAAGAAATCTTTAAAGCAGC
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CTTTTTTCAAACTTTCTATGATATTTTGACTTTGCTTCCATCCTTTCTATTGCTTAGTCT
AGAGATTAAGGTATTACTTCTAATAATAGTCATTTACATTATTTATGTTGCTAATCTCTT
GATGACAAGACCTCTACATGTGTCTTGAAATAAAATCAAATGGCTCTGTGCTTCATATAG
AGACTAATTTCTAAGACATAAAT

Sequence=10944;DNA;Homo sapiens
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
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CTTAAGAAGCAGGAAGGAAACAAGTTTTCCTCTTCCCACTTCCAAGACTGAGAAAGAGTC
CAGATGAGCTGGTTTGCCCAAGCAATTCTTATCACCAGATACTCCGTTATTAAACGTGTC
TCCTGCCTTCTTTGAAAGCAACAGGAGAAATGAAGCATAGGAAAGTCTGCAAGCTAACAG
TGTATCACCTAGGAGGCTTGTATATAAATATGAAGCTCTGCAAAATGTAGTTATAATGAA
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Sequence=10945;DNA;Homo sapiens
CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT

TABLE 2

1759/3461

CGAGCGGCCGCCCGGGCAGGTACCTTTTTNTTTNTTTTTTTTGTGTTGGTTGGTTGGTTG
GTTGTTATTAAGAGATGGGGTTTCTGCCGGTTGCGGTAGCTTACAACTGTAATCCCATCT
AGTTGGGAGGCTGTGGCGGGTGGATCACCTAAGTTCAGGAGTTCGAGACCAGCCTGGCCA
GCACGGAGAAACCCTATCTCTGCTAAAAATAAAAAATTAGCCGGTCATGGGGGCCCATAC
CTGTAATCCCAGCTACTC

Sequence=10946;DNA;Homo sapiens

CTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAG
CGTGGTCGCGGCCGAGGTACTAATCTGTAAATAGTAGATATAAAAAGGGAAGAGTGATTT
AGAGCAAGGATTGAAGAAAGGAGTCCTTGTAGTGGAATTGGTTTCATATGGCATTCTAAT
GACACAGGAAAATGTGTTCTCGCCCCATTGACTTGCATACCAGTAAGAGTCTTGCCTTTG
ATTAACTGAAGCTAATCTGGGTGCAGGGAGGTGGTGGACAGTGAATAAAGTCATCTCTTC
TCTTCCTCCAAGACACACCAGTGTCAACATGGGAACAGCAATGCCATAATCTTCTTCCCA
ACTCACAACTTTCAAATAGTAGTTAAGCTGACTAATTCAAACTCAAAAAAAAAAAAAAAA
AAAAAGTACCTGCCCGGGC

Sequence=10947;DNA;Homo sapiens

ACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTGGAGGGTTAGACCTA
CTTCTGTGTCAGGTAGCACCCAAATCCTAACATCTATTTTGGAGACCTGTCTGTGCCTCT
TCATGCTCACACCATTGTTCTGATAGATGATGCCAGTGGAACTTCCAAAGAAGCATTCCA
CCTGATCTTCACCACCCTCTTTGATCCTCTTTTTAAATCTGTGTGTGGAAGGCAACTGCA
ATATAGAGGATTTGGAAGGTTGTCTGTTTCTGTTGTCTGGGGAAATGATAAAAAAAAAAA
AAAAAAGAGAGAGATGTGAAAATGAAAAAGATGGACCA

Sequence=10948;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTGGGTCTTCATTTT
GAAGGCTTCCATAGTTATATAAAACGATGATTAAATAAACGTGCTATGCTTCTCGCTTGT
TAACCTGCCTTATTATAGCCGTGTCAGCTGTGACCCTTTTGATAGGAAGGAAAGAGATCA
CACTATTTCTGCCCTTATAGTTCTGATGATGAAGATGGGATGTCTGAAGCACCTGACTCA
CCTATTGATGAGGTCCTGGGACAACTGATAAAGAGCTGGCAAATAAAGGTAAGAATTTTT
ACCAAGGTGAGTTCTGAATCTCTGCCTGTAGTTTCTGGTCAAGAACTAAAGGTAAAAATT
TATCTTTATATCTTACTTTCCAAATGCAGGTCAGCAGGAGATCATTTGTTTGAACTGTTC
TCTTATGTAAATTTGGATTTCAGGGACTCATTTGTTATTGATCCTTTCCCTTCAACGAAC
AGCTGTCATTTTCCTGTTTTGTGTCCTGAGAACCCAACTTGGCTTGCTGCCTGTCAGGAC
ACACTTTGGTGTGTGAAGGGGGCTAAACAAATGTTGGAGGCTCCCATTAAAAGCTTACAT
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Sequence=10949;DNA;Homo sapiens

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GAGTCACAAGTGGCTGAGACACTGCTCCATACAGGACTCATGTGTGGTCATTGCCCACCC
AATCTTATGACTCCATCATCTTGGGACCCTGGAACAAACATGACTTTTTTTGATCGATAT
TTTGTCCTCGGTGTTTTCAAGGTCTGATGTTGGAGCCCTGTGGCCCACCCTCCCTTCTCC
ACCAGCATGTTGGTTTGAAAAGGATAGGGAATTTAGAAACAGTTCTGTACCTCGGCCGCG
ACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGT
ACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCAC
AATTCCACACAACATACGAGCCGGAAGCATA

Sequence=10950;DNA;Homo sapiens

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CCTGCCCGGGTTTAACTTACATATATACAGAGTGGGCGGGGCAGGCATGGCCACAGAGGT
GGTATTACAAAATATACAAAGTGGTTTCTTTCTTTACATTTCATAGAAGAAGCCTGCCTC
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GAGCTTTGACAAGCACTGTGATCCAAAGCAGCCTAATTACTGGCCGGTCATCCCCCCGAA
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TCATCTCTCCTTCTGTACCTGCCC

TABLE 2

1760/3461

Sequence=10951;DNA;Homo sapiens
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GAAGATTAGTCCGCCGTAGTCGGTGTACTTTNTTTTTTTTTTTTTTTTTTTTGAAAAAGT
AGTTAGCATTTAATGAAACTCCCTCCATGTGGCTTCAAGCCACCAGGACACAGGCCCCCC
CAACACTCTTAATCTTCTCCTCAGCTCTTCTGCTGAAGAATTTGGCCTTCACGATGACAG
GCTGCTTTGGGAGCTTTCCCTTTCCCAGAACTTTATAGTAGCCCGATCGCACCACATTAA
TGATGGGAGCAGCCCCAGTCTTGTTTTTAG
Sequence=10952;DNA;Homo sapiens
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TGTTATCCTAACAAAAACTACTATATATGTTTATCCCCATTCTAAAATGTGGAACTAATA
CATATATGAGTGTAACTAGGCCCCAAATCACACTCTCTAATCATGCAAACCTATATATTT
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CGCTGGTGAAAGATTCACAAACTCAAAACATACATTATGACTAGGCTCATAACAATGAGC
AAAGATGGACTCCCTCAAAACAAAGCAGCATAAGTAGG
Sequence=10953;DNA;Homo sapiens
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CGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCG
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TTTGGTCCCGGGTACCTTG
Sequence=10954;DNA;Homo sapiens
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GTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACAT
Sequence=10955;DNA;Homo sapiens
GAGTCGACGCATGGCGAATTGGGCCCTCGTGCCCTCTAGATGCATGCTCGAGCGGCCGCC
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CTCAACCTCTTAAGCTCAAGTGATCCTCCCACCTTAACTGCCTGAGTAGTTGGGACAATA
GGCATGCACCACCATGCCCAGATAATTTTTTTTTTAATATTTTGTAAAGATGGGGATTCC
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GGACTTTTA
Sequence=10956;DNA;Homo sapiens
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TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATAAGCCACTTTCATACC
TGCCTACTATTATGGACTGCAGAGTAATGTGGCCTATATCAATTTTTCAGGATTGTTCTT
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TCAAGATGGGAACTGCTCANGGCAAATCTGCCTTCTATTCTATTCAAGTCATCCATTTGC
TCACAGAGACAGATGCATATTCTGATTGCCTCCTTTGGA

TABLE 2
1761/3461

Sequence=10957;DNA;Homo sapiens
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TTGGGTTTCTCATCTTTAAAATGGAGATAATTTCATCTTCTTATGATGGATCTCTTCAGA
GAAGTAAGAATAATGAAGATTTTAAATCATCCCAATATAGTGAAGTTATTCGAAGTCATT
GAAACTGAAAAAACACTCTACCTAATCATGGAATATGCAAGTGGAGGTGAAGTATTTGAC
TATTTGGTTGCACATGGCAGGATGAAGGAAAAAGAAG
Sequence=10958;DNA;Homo sapiens
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
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AATTTATAAAATAAATACTGCCAGGTGGCTACTTAAAAAAAAAGAAAAGAAAAGAAAAGG
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TABLE 2
1762/3461

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TABLE 2
1763/3461

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TABLE 2
1764/3461

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TABLE 2
1765/3461

Sequence=10980;DNA;Homo sapiens
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TABLE 2

1766/3461

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AGACATCTGGACAAAAAGCAAAGATTCCATAATATAAGGGGTCGGTGGACCGGTCGATGT
ATGTCTTGTTGCAGATCATCAAGAACACGTAGAGAAACCCAGCTGTAATCATGCATGGAG
ATACACCTACATTGCATGAATATATGTTAGACTTGCAACCAGAGACAACTGATCTCTACT
GTTATGAGCAATTAAATGACAGCTCAGAGGAGGAGGATGAAATAGATGGTCCAGCTGGAC
AAGCAGAACCGGACAGAGCCCATTACAATATTGTAACCTTTTGTTGCAAGTGTGACTCTA
CGCTTCGGTTGTGCGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGC
GGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCT

TABLE 2
1767/3461

Sequence=10991;DNA;Homo sapiens
CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCACTCACTACATTACAAAATA
GTCTCTAACATAAAATTGCCTTAATAACTATACTATTATAGAATCTGATAAACCTTACAT
TATTAAATTGATTATAAAATCTTCTTGGAAAAACTTTGGTATGTATCTTCAGAAGGTTTT
TTAAAAATAATATTTTAAGGGCCTGTAAGCATTCCATTCTATTAAAGCACAGCAGAATAA
GTAATGGATATTCAACTGCATACAGAATATAGACTCAAAAAAACAATTTATTATGTATTT
GTAGAAAATCATTACCAGAGTAAGCAAAAAAACCAACTATTTAAAAGTATCAAACTTTTA
AACAGTTCTTTTTTCCATTCTGATAAAAAATGTTATAAAATCACCATACTCCATTCATGTA
CCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTC
Sequence=10992;DNA;Homo sapiens
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GGGTCTTACTATGTTGGCTAAGCTGGTCTCAAACTCCTTGCCTAGGTAATCCTTCTGCCT
CAGCCTCCCAAAGTGCTGAGATTACAGGCATGAGCCACCATGCCCGACTTCCCTTTGTGT
AAAATGAGATAATATGTATGTCACAGAATTGTTTTAAGGATGATAAAGGACTAAGTGAGA
TAATGTAGGTGAAGTTTAGTTTGATGCCTGGCTCATAGTTAAGTGCTGAATTATGATAGT
AATTAATTTTTCTAACTCCAAACCTTTTTTTTTTAACAGATTTTAAGCTTCTGTCTTTCTAG
GGGGTTAAGAGTCATAAACCAAAATTACACTTTTCCTCTGCTAGGTTTCCTCCCTTTCCT
CTTCTTGACAGTCTGATGGGAAACAAAGGCACACATTAGAGCCTATTTCCAAGTTGTCAA
ATATCTCTGAAAGGAAGGGATATGGGAGAGTAATCCT
Sequence=10993;DNA;Homo sapiens
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TTTTTTTTTTTTTTTTTTTTTAGCCTATTTAGACTTCTCTGATTGAGGGTTCTAATTTAAA
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AGGCATGAGAATCGCTTGAACCTGGGAGGTGGAGGCTGTAGTGAGCCAAGATCGTGCCAC
TTACAGCCTCAAACTTCCGGACTCAGGCAATCCTCCCATAAACTGTGATTAATTCCTTTC
TGGTTATTTTTTCCTTTTTTTTTTTTTTAATTAAAAAATAAAGTCCTGCTCAGTCGCCCAG
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AC
Sequence=10994;DNA;Homo sapiens
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GAGAGAAGCCGTATGAATGTGAGGACTGTGGGAAAGCCTTCAGTCATCCCACGACCTTTC
ATAGACATAAAATTACCCACACCGCAGAGAAACCTTATGAATGTCAGGAATGTGGGGAAG
CCTTCCGTTATCCTGTTGCTTTTCGTAGACATAAAATTACCCACACTGCAGAGAAACTTT
GAGTGTAAGGAATGTGGGAAAGCCTTCTGTTATCACAGTTCCCTTCAAAGACATGAAAGG
ACTCATAACGGAGAAAAGTTGTGTGGATATAAAAAATGTAAAGCCGGCTGGGTGCGGTAG
CTGACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGCGGATCATGAGGTCAAGAG
ATTGAGACCATCATGGCCAACATGGTAAAACCCCATCTCTACTAAAAATACAAAAATTAG
CTGGGCGTGGTGGCATGTGCCTGTAGTACCT
Sequence=10995;DNA;Homo sapiens
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TGCACTGCATGAGACCGTTGATACAGCCAGAAAACAGGGAGATCTTGAGGCATGGCAGTA
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AAGGAAGGAGTTAAACAATATGGACCCAACTCTCCTTATATGAGAACGTTATTAGATTCC
ATTGCTCATGGAAATAGACTCATTCCTTATGATTGGGAAATTTTACCTAAATCTTCCCTT
TCACCCTCTCAGTATCTACAGTTTAAAACCTGGT
Sequence=10996;DNA;Homo sapiens
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CAATTTAAGGCAGGATCATGTATTGTGTCTGTTATGATTGGCTATTAGAAAAAGGAAAAA

TABLE 2
1768/3461

ATCTGGCAGACACAATCTGTATTTGTTTTTTATTGCTGCCTAACAAATTATTACATACAT
AGCAGCTTAAAACAACACCATTGATTATTTGTAGATCAAAAGTCCTGGTGTAGGTTAGAT
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TGAGGCTTTGGGATCCTCTTCCAAGATCACTGGTTCTTGGCAGAATTCAGTTCCTTGTGG
CTACAGGGCTGAAGTCCCCATTTTCTTACTGGCTGTTAGCCAAAGACATTCTCAGCTTTT
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TTGCTT

Sequence=10997;DNA;Homo sapiens
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GTGATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTAGGAATTCCTTTCATTTTTATTTGATAAGCCAAAAATGC
AAATCTGATTTAAATTCAAGACAAAGTTTTAAAAATCATTCTCAACACTACAGAAAAAAA
GCCAGTAACTATACAAATACTCACTATAAAGCGATGAAGTCCATAGNACTTTNTTTTTTT
TTTTTTTTTTTTTTTTTTGGGAAAAGCTACAAACCTCAAGGTTGTTTTATTTAAACCAAAT
AATCTGAGCAAGACGTATATACATTAAAAAC

Sequence=10998;DNA;Homo sapiens
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ACAGAAATGGGTAGCACTGAGGAATGATCACATTATTTTTCTATCCCCAATATTTCTGCC
CCCTCCCTAAGCCCTGACCCAACCCTATCTTAATAATCACGAATGGTTAGTACTGCATTG
CTTTTTATAAAGTTCAAAATAAAAATTTATTTTTAAACAAGTGACTTTGGTTTATTTCAT
ACATTACACTTTTTTTTGCAGAAAAAAATAAAATTGTACCTGCCCGGGCGGCCGCTCCAA
AGGGCGAATTCCAACACACTGGCGG

Sequence=10999;DNA;Homo sapiens
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GAAATGAAATGACCACCTCATAAAAATACTGCACTCCCATGTTTAATGCAGAATTAGTCA
CAATAACCAAGATATGGAAACAATCTAGGTGTCCATCAATGGACAAATGAATAAGGAAGC
TGTGGTATATATACAATGGAATATTTTATTCAGCCTTAAAAAAGAGGAACTCCTGCCATT
TGTCCCTGCATGGATGGACCTGGAGGGCATTACACTAAGTGAATTAAGTCAGACACAAAA
CATATTGCATAGTCTTACTTACATGTGGAATCTTTTTTTAAAAGGTCAAATATATAGAGAA
TAAAACAGTGGTTACCAAGACCAGAGTTATGGGGCAGGGGAATGGGAAGATGTAGGTCAA
AGGACACTGAGTATCCCTAATTGATTTGCAGATTCAATCTAATTCCTAACAAAATTCCAA
CCGCCTTTTTTTTTTGCGCAGAAATATAAAAGCTAATTCTAAAATTCAGGCTAGGCAT

Sequence=11000;DNA;Homo sapiens
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TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGTGAGGATCCGGAGCAGACG
CCTCGGGATTTATCAGCGATGCTGGTTAGTATTCAAGAAAGCTTCAAGCAAAGGTCCAAA
AAGACTGGAGAAATTTTCTGATGAACGTGCTGCATATTTCAGGTGTTATCATAAGGTTAC
AGAACTCAATAATGTGAAGAACGTAGCTCGATTGCCAAAAAGCACCAAGAAACATGCCAT
AGGGATTTATTTCAATGACGATACCTCCAAGACTTTTGCTTGCGAATCAGATCTTGAGGC
TGATGAGTGGTGCAAAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTG
GCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCT
G

Sequence=11001;DNA;Homo sapiens
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GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGGACTATGTTTTTTTTTTTTTTTTTTT
TTGTTAAAATGTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTTTTTATAGGA
GGGGGGCCCCGGAGGGCTTTTAAAAAAAAAAACCCCTTCAGATGGATGATAAAAAAGAGC
GGAAAAAAAAAAAAAAAAAAAATCGGGGGGGGGGGCACCCCCCCCCCCCCCGAGGGAAGT
TAATAAAAAAACCCCCCCCCCAAAAAAAAAAACAATTTTCCCTGCCGGGGCGGCCGTAGG
GGGGGGAATTCCCCCCCCCGGGGGGGGGGAATTAGGGGACCCAACCGGGGAACCAAATGG
GGGAAAAAAAAGGGGA

Sequence=11002;DNA;Homo sapiens
CTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAATGTGATGGATAT

TABLE 2
1769/3461

CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAACTTATAGAAAAGGTAAA
GGAAACCCCAACATGCATGCACTGCCTTGGTGACCAGGGAAGTCACCCCACGGCTATGGG
GAAATTAACCCGAGGCTTAGCTTTCATTATCACTGTCTCCCAGGGTGTGCTTGTCAAAAA
GATATTCCGCCAGGCCAGAATCGGGCGCTCCCATCTTGCGCAAGTTGGGCACGGTGGTCA
CCCAATTCTTTGATGGCTTTCACCTGCTCATTCAGGTAATGTGTCTTAAATGAAGTCCCA
CAAATGGGGGGGCATTTTTG

Sequence=11003;DNA;Homo sapiens
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TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCATTTGCCTAATTTTTGC
CATTCTCATAATGTGGCAATTGTTCAATTTTGCATTTCTTCCATTTTATTTTTTTGCATC
TCTGCTTTTCTTTTGGTTAGCTTTGCCAGTTCTGCCTATTATATTAATCTCCCAGAATCA
GCTTTTAGTTTTGTTAAATCTCTGACATGTTTCGTTGATTCCTGCTTTCATCTTAAACAT
TTCTTCGTTGTTAATTTGTGTTTGCTATAAAATAAGCAACATCTTAAATGCTTGATTTGC
TTTCGATGTTTATTCTGTAATAAGATATTTAAAGATATAATTTTTTCCCTAAATGCTTTA
TTAGACTTTTCTCATAAGTTTTGACTGGTACCTCGGCCGCGACCACGCTAAGGGCGAATT
CCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCA
TGGTCAT

Sequence=11004;DNA;Homo sapiens
ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA
TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAGGAGCTGAGAACACGATG
ATGAGCACAACACAGTTCTTCCCTTTGGAAACATAGATAAGTGGAGGGAATGTCATCACA
AATGTAAAACTTCACTATGAGATGAGTTCCGTGATAGGATTTTCTTAGGGAAACCTGAGA
AAGAGT

Sequence=11005;DNA;Homo sapiens
TTGGGCCCTCTAAATGCATGCTCGACGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC
CCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCATCTCACAAGTTAGTCCACTCATTGT
AGTCTTGGCTATACTTTATCATCCAAAAATTCATCAACATTCTGGTGAATGGACGGCATC
TTTTGAGGGTTGATTGTATTCTATGTCATTTAAAGGGATTCAGGAAGAATGCTTTCATGG
GATTCATATGCCATCCTGAATTAGAAGTTTAAGTTTTATTCCTAAAGATTCTCCTCACTC
TGACATTCTCTTAGCCAATAATTCTTTAAAATTTTTCAATCCTGGTCAGGCACGGTGGCT
CACGCCTGTAATCCCAGCACTTTGGG

Sequence=11006;DNA;Homo sapiens
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CTTTGGTTTTGGTGTCAGGGTAATACAGGCTTCATAAAAGTGTTAAAAAAATGTCCCTTT
CTATTTTCTAGAAGGGACTATGTAGCATTGGTATTAATTCTTTAAATGTTAGGTAGAATT
ATCCAGTGAAGCCATCTGAACCTGTAAATTTATTTTTTGGGGAAGTTTAAAATTATGAAT
TGAATTTTCTTAATAGTTAAAAGGCTATTCAAATTATGCATTTCCTATTAAGTTGAGGTA
ATTTCTACTTTTCAAGGA

Sequence=11007;DNA;Homo sapiens
GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC
CTTGAGCGGCCGCCCGGGCAGGTACCTTTTTCAGTAATCAATAGACCAGTTAGAACACCT
CAGCCAAAAATAGCAGAATATAAATTATTTTTGAGCTCTCACAGAACTTTGCTGAGATAC
ATTATAACCTGGGCCATAAAACAAACCTCAACCAATTAATACAGTTGAAACCAGAGTGTG
CTCTCTGACCACAGTAGAATCAAACTATTAATTAGTAATATAATAATGAAAATCTCCACA
CTCTTAAAAATAAACAACATGCTTTTAAATTATCCATGATTAGGGAAGAAGTCTCAAGAG
GGAAAGAAACATAGAACTGAGTGTAAAGGAAAATACGACATCAAAATATGTGGAATGTGG
CTAAAGCAGTCCTGAGACGGAAATCTGTTGCACTAAAAACTGAAAGAAAGATGGGTTCAA
GTCATAACCTAAAGGTCTAAACTCAAGAAACTAGATAGGAAAAAAAGGCAGAATAAATGC
CAAGTTAGAAGAAGGGAAAACATAAAAA

Sequence=11008;DNA;Homo sapiens
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TGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCTCTCTGAAA
TAGAAAAAGGCCTTTATTCGTATCATTTTATGTTAAATACTGGTTAGTTACTGGTATTGA
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TABLE 2

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CATAAGACTTGGCAATGTGTATTACCAGTGAAAATCTAAAGTTTCTACTTGGGAAGGAAT
ACCCAATGATGGGTAATCCTTCATTCTGAGAACACAGTCAGAATATCTTGGAGCTACCAA
CATTGTGCTTGGCTCTTAATGCGAAGTTTTCAGGGTTGGGGATGCGCTAAAAACACTCTT
AACCAATCGATCTGCGAACCATTCTTACACGTTGCTATTCTTTATTC

Sequence=11009;DNA;Homo sapiens

ATAGGGCGAATTGGGCCCTTCTACAGCATGCCTCGACGGCCGCCAGTGTGATGGATATCT
GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGAATTAAAGACCGCAATAAACTT
TCTACAGAGGAACGCCGGAAGTTGTTTGAGCAAGAGGTGGCTCAACGGGAGGCTCAGAAA
CAACAGCAACAGATGCAGAACCTGGGAATGACATCACCACTGCCCTATGACTCTCTTGGT
TATAATGCCCCGCATCATCCCTTTGCTGGTTACCCACCAGGTTATCCCATGCAGGCCTAT
GTGGATCCCAGCAACCCTAATGCTGGAAAGGTGCTCCTGCCCACACCCAGCATGGACCCA
GTGTGTTCTCCTGCTCCTTATGATCATGCTCAGCCCTTGGTGGGACATTCTACAGAACCC
CTTTCTGCCCCTCCACCAGTACCTGCCCGGGCGGCCGCTCGAAGGGCGAATTCCAGCACA
CTGGCNNGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATG

Sequence=11010;DNA;Homo sapiens

GCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT
TAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAATTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTGTTA
AAAAAAAAAAAAAAGTTTTTTGGAAAAAATTTTTAAAGAAAGGGGGGGGAAAAAAAAAAA
AAAATTTTTTTTTTTGGGAAAAAAAAAAAATTTTTTTTTTATGAAACAACCATTTAAAAT
TTTCCCTTAAAAAAAGTTTTTTTTACAAAAGAAACCTTTTTTTTTGTTAAAAAAAAAAAA
AAAGGATTTCTTTCTTAAAAAAAAAAAAAAATGTTTTCTACAAAAAAAACATTTTTTAAA
AATAAAAAGGGGGGAAACCCTTTTT

Sequence=11011;DNA;Homo sapiens

TCACTATATGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCGGGATCCTGTGACTTT
GTAACCACACTCATTCCTTTCAAACACATAGGAGGAATTATTGCTTCATCTGACTTTATT
CAAAACTAGTTATGTATTGGCCTAAATTATCCGCGCAAAATTTGAAATGTTGTTTATTTA
AATATTCGAAATAACGCAAAGTCATGGAGTTCTTAAAAATTGTTATAATCAAGTAAAAAT
AAAGCTGAATCGTGTCAAACTTCATAATGTGCACACAATCCCTGAGGATGTGTGTAGGAG
CTCCTAATAGCTTGGTGAAGGCTATTAACGTATTAGCTTTAAATGGTGGTCCTGCAACTC

Sequence=11012;DNA;Homo sapiens

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AATGAGTGGAGTAAAGCACTCAGAAGAACAGCAGGAAAAGAGGATTCATGTATGTCAGAG
GAGCTGAAGGCTCTCAATAGGTTCAGAGAATGCAGGTCTTCCAGCTGCTGAGGGTGTATG
CTTCCACTATGCCTCATAACAACCCCTGAACAAAG

Sequence=11013;DNA;Homo sapiens

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GCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTCCTGTTCTCCTAACCCCTTGGG
AAGCCTACGGCTGACGATCGCTCGTGATCACGAGTGAGAGACCAGCCTGTGCTGCATTCG
GAGCCTTATGGATACTAATGGTCCTAATAATATGGCTGGGTGCGGGGGGGTCCACGAGAT
CTACTGGACTTTTACCAGGTTCCAGAGGTATGGAGGCCATCTTACCACAGGGTCAGAGGA
TACCACATGGAGGATCTACAACTGTCACTTTCCCTCAGAATGTATGAGGAGACCCTGCCC
CTCCTTGAGTGTCAATGGAACCTGGACTTGTACCTGCCCGGGCGGCCGCTCGAAAGGGCG
AATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGGACCAAGCTTGGCGT

Sequence=11014;DNA;Homo sapiens

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GGCCCCAAATTTTCTTACCCTGAGGTGCTGATATCTGTATGGATGAGTTATTTGTCACTA
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TCAGTTGGGAAGATATTTTAGAGTCTAGATAATTATGTTTGTATATTGAAAAAATGGTGG
CCAGTTTTTAAGTTCCTTAATAGAAGAGAATTATGTCTCAGCACATATAACAGTAATGCT
AATTTATTGAAACTACTGCTGTTAGAGCACTTCTTATTCATTGTCTTTTAGTGAAATTTA
TGGCGTAACACTTTGTCAGAGAGGAGGCTATATAATTTGGAGCGGAAATTGTCTATAAGT

TABLE 2
1771/3461

AGGCATTTATTTCATGATTGATATGTCACAGAAATCATGGTAGTAAATCACA
Sequence=11015;DNA;Homo sapiens
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CTTATTGTAGGCCACCAAAGAAACAGCATACCACAGCTATTCAATATGTATTTCACCAGT
ATACCACAGCTATTTAATGTGTATTGGAGCAGTATACCACATCTATTTAATGTGTATTTT
AACAGACTACCACATCTATGGAATGTGTATTTCAGTACTATACCACATGTATGGAATGTG
TATTTAAATAGTATACCACAACTATTCTATGAGTATTTCATAACTATGCCACAGGTATTT
AATGTGGGTTAAATCCATCTGACACACCTATTTAATGTGTGTATCAGCACTCTGCCACAA
CTATGTAATGTGTATTGTCAGCAGCTATGCTACAGCTATTTAATGTGTATTTCAGCAGTA
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Sequence=11016;DNA;Homo sapiens
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ATTGTATTTTTAACTTTTTT
Sequence=11017;DNA;Homo sapiens
GAGTCAGTCGACCCACGCGTCCGGCCTGAGCGCGTAGGCGCAGCGGGCCTAGCCTAGTCA
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TGTTGACGCTGGACGAGAAGGATCCTCGGCGTCTGTTTGAAGGCAACGCTCTGCTGAGAC
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TGAAGATTGAGGATTTCTTGGAGAGAAGGCTGCAGACCCAGGTCTTTAAGCTGGGCCTGG
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AGGTGGTGAACATTCCATCTTTCATTGTTCGCCTGGACTCTCAGAAGCACATTGACTTCT
TCCTCCGTTCTCCTTATGGTGGCGGCCGCTAGACTAGTCTAGAGAAAAAA
Sequence=11018;DNA;Homo sapiens
GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC
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GTAAAGGAATATAGTAATATTGAAGACTGTTTCCAGCAACTTGACTTTGTGAAAAATGAT
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Sequence=11019;DNA;Homo sapiens
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CATTTTTCCCTTCTGGAAAAGGAAGATTATCGGTAATTATACAAAATCCTAAAAACCCAT
ATGGAAATTAAAACTAAATTTTCCCTAAAGAAAAGCAAAGCTATTCATGCAACAGGTTTG
ACAAACATTAAAAATTCTAC
Sequence=11020;DNA;Homo sapiens
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CTTTTCAGTTATTTATATTTACTAAGAATGGCTCTACTTTCCACCCCCAACTCCATTTTA
ATCCATTCTGAATTTAAACCATTGTTAAACTTTATTTTTAAATTATGAATGGTAAAGGAG

TABLE 2

1772/3461

CATTTCAAAATCATCTCAATAAACGATCTTTAAAAACATGAGCTTAACTTCAATTGCTTG
ACATGCCCTTTGGCTCCTTTTCTTTGGGTCAAGATCCCGAAGATCTTGTTTCACACCAAC
ACTCTCCATTCATACCTGCAAGTGAAAAGTGCCTCAGCTTGACACCTTATACAGTACCTC
GGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGA
GCTCGGTACCAAGCTTGGCGTAATCAT

Sequence=11021;DNA;Homo sapiens

CGACACTGTGATGGATATATGCATAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCG
GGCAATAAAAGAATTTGAGAAGAGTGGTCAAAAATAGTCTATCTATCTTGAAACCTGTAA
ACGCCTTTGATATACAGGATATGGCACAAATTTAATAATTATAACATTTAAAAAATAAAC
AACAACGCTGACATCACTACATATTAAAAGCTGTGGTGTGTGGGAAAAGTGGCATCCTAT
GCGAAATTTACAGGCATGAAAGTATTTATCAGAAACTTATAAAAACTGAAAGTAAGTGAC
CTAAGTCTTCAGCTTAAAGAATAAAAATGATTAAAACATAACATCAAAAG

Sequence=11022;DNA;Homo sapiens

GCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCT
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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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TTTTTTTTTTTTTAAAAAAAAAAAAAAAAGTTTTTGAAGAAGAAAACAAAAATATTTTTT
TTTTAAAAAAATAATAAAAAGAGAGTTTTTTTTTTTTCCTCCCCCAAAAAAGGTGAATTA
AGTCCTTCCCCCAAAAAAAAAAAAATTTTTTTAATATCAAAAAAAAAAAAAAAATTTTT
CAAAAAAAAAAGGATAGGAGGAAAAAAAAAAAAAAAAAAAATACCCCTTTTTTTT

Sequence=11023;DNA;Homo sapiens

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AACCCACCACCAGGAAACCAAAACGGACCCCACTCTGAGAGTTCCATGATGAAGGTGTTT
AAGAATCACATTAACCCCAAGTTAAGGCAGTAGATGAAATTATCCATTTCTTTTTTCTTT
TTATTTTTTTTAAGTGAGACTACAATTGGCAAATGGGGAA

Sequence=11024;DNA;Homo sapiens

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TTGGCAAATGTTCAGTTGACAATTATGAAAGCTGGATAAACAAATACCTGCAGGGTTTAT
TTTTACTACTTTTCTACTATTGAATATATCTGATATTTATATAATAAAAAGTTTAAGTTA
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TCTAAGACTGCCAAAAGCTACGCCACAATCAAATTCTGCAGGTTCTTTCAAATATCATTT
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Sequence=11025;DNA;Homo sapiens

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AAAAAACGGCGAGGGGTTTTTGTTTGGGAAAAAAAAAAAAAAAAAATTTTGTTTTTTTGG
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CCAACCCGGGGG

Sequence=11026;DNA;Homo sapiens

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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAAAAAAAAAA
AAATTTTTTTTTTTTTCCGGGGGGGGGGGGGGGAAAAAATAAAAAAACCCCCCCCCCTTTTT
TGGGGGGGGGCCCCCCCTTTAAAAAACGGGGTTTTTTAAAACCCCCCGGGGGGGGGGGGG
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TABLE 2

1773/3461

CTTTTTTTTTTTCCCCCGGGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCCCCCCC
CCCCCTTTCTTTTGGAAAAAAAAAAGGGGGGGGGGCCCCCAAA
Sequence=11027;DNA;Homo sapiens
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CCTATGTGAGTTGCAATATACACAGAAAGCATAGCAAGGAAAAATTTCCTGGAGTAATTG
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AGGTCCGGGGCTTGTGTCATCTGTGGAAGCTGCTTTGTTCAGGGCTGCGGGTACCTGCCC
GGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAG
CTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCC
GCTCACAATTCCACACAACATACGAACCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTA
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Sequence=11028;DNA;Homo sapiens
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Sequence=11029;DNA;Homo sapiens
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CCCCCCCCCCCCCGCCCCCC
Sequence=11030;DNA;Homo sapiens
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TABLE 2

1774/3461

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Sequence=11033;DNA;Homo sapiens
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AACCCTTTTTTTAAAAGGGTTTTTTTTTGTTTAAACAAAAAAA
Sequence=11034;DNA;Homo sapiens
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ACAATGGCAAGATATTGTGCTAATACATTTCATAGGATTTCTAGATGCTGGGCTATAACA
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GTAAACTCTGTCACTGACCAATTATCTAAAACAAAAATAGCAGCCTCTGTTATCAAAGTT
GTCAGTTAAAACTGTCAGCTGTCAGGCACAGTGACACACACCTGTAATCCCAACACTTTG
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Sequence=11035;DNA;Homo sapiens
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Sequence=11036;DNA;Homo sapiens
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Sequence=11037;DNA;Homo sapiens
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Sequence=11038;DNA;Homo sapiens
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CCCCTGTTAAAAACG
Sequence=11039;DNA;Homo sapiens
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TABLE 2
1775/3461

CTTGTCACCCCAGCTGGAGTGCAGTAGCACGATCTTGGCTAACTGCAACCTCCAGCTCCT
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CTCCTATCATAAAATTAATTTCTCATTTTTTGGTCAGGTAGAATTGGGAAAGTCCCACAC
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TTTATAT

Sequence=11040;DNA;Homo sapiens
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Sequence=11041;DNA;Homo sapiens
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Sequence=11043;DNA;Homo sapiens
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TABLE 2
1776/3461

TAATAATCTCGTCCATTCTGAATGAAAAAAACTAACTTTAAATAAGTTAATTCTATGCTC
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Sequence=11045;DNA;Homo sapiens
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GTAGGATCCATGATGCCCCACAGCCACCGAAACCAGCAGGTTTTTTAGGGATTTTCAAAA
GGAGAATTGCTTGAACCTGGGAGGCCGAGGTTGCGGTGAGCTGAAATCACCACATTGCAC
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Sequence=11046;DNA;Homo sapiens
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Sequence=11048;DNA;Homo sapiens
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Sequence=11049;DNA;Homo sapiens
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TABLE 2
1777/3461

TCAAAGTGAAACAAAATGAGAATAACTATTTGGGCAAAACACTTTTATCACTGCTAAGAT
ACTACTAGAACTGAGCAGAGAAATACTCAGAGAGAGCCATGGCAT
Sequence=11051;DNA;Homo sapiens
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TAATCCTAAAAAGCTTCCTAAGGGTTGGTCAGGGCAGTTAACTCCAGTGAATACCTCTTC
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AAAAATAGGAAAC
Sequence=11052;DNA;Homo sapiens
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Sequence=11053;DNA;Homo sapiens
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Sequence=11054;DNA;Homo sapiens
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Sequence=11055;DNA;Homo sapiens
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Sequence=11056;DNA;Homo sapiens
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TABLE 2

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GGATTACAGGCCACCACCATCATGCCCGGCTAATTTTTGTATATTGGTAGAGACGGAGTT
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Sequence=11057;DNA;Homo sapiens

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Sequence=11058;DNA;Homo sapiens

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Sequence=11061;DNA;Homo sapiens

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TABLE 2
1779/3461

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TABLE 2
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TABLE 2
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TABLE 2

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TABLE 2
1783/3461

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TABLE 2

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TABLE 2

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TABLE 2
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TABLE 2
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TABLE 2
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Sequence=11123;DNA;Homo sapiens
TATATGGCGAATGGTGCCCTCTAGATGCATGCTCGAGCGGCCGACAGTGTGATGGATATC
TGCAGTATTCGCCCTTAGCGTGGTCGCGGGCGAGGTACTATGTGTACTTTTTCATTTTTA
AAAAATCATCAGGACTGCCTGTGAATGAAGTGCATTTGCTGTATTGAACCAAAACCATAG
AGCTCAGAAAAATCAAAACCATGACAAGACATTTTAGCATTTAACTACTTTCTATAACTA
AGTACTCTTTAAATATTTTTATTTCAATACTGTGGATGGAAATGAGAAGCATTCTAAATT
TGAGTTAATATATTTTTATGAAGATATTTGAGAAAAGAAAAAAATAGCTAGTATTCATGA
CCATGGACTTGCTCTTGATCATGCACTTATGTATGTTACCTAATTTGGCCTTTTAAAAAA
GGTGTAAGTGTTTATTATAGCTACTTTCAAGGAAAGTTTGAATATGATTCTAGTCTCTAA
AGTTCTTCACGTTTTCTGACATTCCCTGGAAGGTGACTGGGGAAAAATTGCTCCAGGTTG
AAACAACCAAGCCCAAAACTTTACCATTCTGATCTA

Sequence=11124;DNA;Homo sapiens
GAGTCGACCCACGCGTCCGGGCGGCGTCCGCAGTCTGCCGAGCGGCCTGCTCTGGGACGC
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CCGCAACCTTCGTCCAGGCCCTCCAGAGCGTGCCGGAGACACAGGTCAGCGTATTGGACA
ACGGGCTGCGTGTGGCCTCGGAGCAGTCCTCGCATCCTACCTGCACGGTGGGAGTGTGGA
TTGACGTTGGCAGTCGCTATGAGACTGAGAAGAACAATGGAGCAGGCTACTTTTTGGAAC
ATCTGGCTTTCAAGGGAACAAAGAACCGTCCTGGCAATGCCTTAGAGAAGGAGGTAGAGA
GTATTGGCGCCCATCTTAATGCCTACAGCACTCGGGAGCACACTGCTTACCTCATCAAGG
CACTGTCCAAGGACCTGCCAAAAGTTGTGGAGCTCCTGGCAGATATTGTGCAGAACATTA
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Sequence=11125;DNA;Homo sapiens
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CCGCCCGGGCAGGTACTTCTAGAGGCTGAGGCAGGTGGATTACTTAAGCTCAGTAGTTCC
AGACCAGCCTGGGCAAGATGGCAAAACTCTGTCTCTACAAAAATTCTAAAAATGTAGGCA
GGCATGGTGGTGTGTGCCTGTAGTCCTGGCTACCCAGGGGGCTGAGGTGGGAGGATTGCT
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TGACAGAGTGACC

Sequence=11126;DNA;Homo sapiens
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GAATGAGACTCTGTCTCAAAAAAAACAAAAGCAAACAAACAAAAAAAAACAGATATTTCT
CACAGTTGTGGAGACTGGAAGTGCAAGATCAAAGTGTTGGCAGGTGCCTGTAATCCCAGC
TATTCCAGAGGCTGAGGCAGGAGAATCACTTGAACCTGGGAGGCAGAGGTTTCAGTGAGT
CCAGATCATGCCACTGCACTCCAGCCTGGGTGACAGAGCGAGATTCTATCTCAAAAAAAA
AAAAAAAACAACAGAAGCAAATGAGAGTGCCTGGGAGTGGTCATTGTGGGGCATTTCTGT
TCGTGTGACCCAGGTCATGTCCCTCCCTAAGCCCTGGTCTCTCTTGCCTCCTGCAGGGCT
GGTGAATTACCATATCTCCGTCAAGTGCAGTAACCAGTTCAAGTTGGAAGTGTGTCTTTT
GAAATCAGACAACAAAGT

Sequence=11127;DNA;Homo sapiens
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TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT
TTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAAAAAAAAAAAAGC
CTTTTTTTTGAAAAAAAAAAAAAACATTTGATTTCCCCTTAAAAAAAATAATAAAATAGA
GAACGTGTTTTTTAAAATCCTTGAAAACAAAAAAAAAGGGGCAAAAATTTTTTTTTTATT
AAAAAAAAAAAAAGGGGGGGGGGGGGAC

Sequence=11128;DNA;Homo sapiens
CTACTCACTATAGGGCGAATTGGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCCTGCCATCATCT

TABLE 2

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ATAACATCCTGCTCTTTGGGCTGACCAGTGCCCTGNGTCAGAGCTTCATCTTTATGACGG
TTGTGTATTTTGGGTCCCCTGACCTGCTCCATCATCACTACAACTCAAAAGTTCTTCACA
ATTTTGGCCTCTGTGATCCTC

Sequence=11129;DNA;Homo sapiens

GGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCA
GAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGAACTTTTTTTTTTTTTTTTTGGGTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGATTTTGCTGAACCTAATATTTGGGGAAA
ACCCCCACCCCAAGCAAGGGGGGGGAAGCAAAAAAAAAAAAAAGGAAA

Sequence=11130;DNA;Homo sapiens

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GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCTAAAACCTTCCC
CTTTCCTTTAAAAATTTGGGGGGGGGCCCCCCCCCTTTTAAAAAGGAAAAGGGGGGGGGC
CTTTAAAAAAAACTTTTAAAAAACCCTTAATTGGGTCCTTTGGGGCCCCCCCCCAAAAAA
ATTGGGGCAAAAAATTTTTTTTAAAAGCCCCTTTTTAAAACCCCCACCCGGGGGGTTTTT
TTAAAACGGGAAAAAAAATTTTTTTTCCCCGTTCCTTGGGGCCAACCCCCCTTGGGGGAA
AATCCCCCCCCCCGGGGGGG

Sequence=11131;DNA;Homo sapiens

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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTGCATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNANNGAGGGGGGGCACA
ACCCCCTTTTTATTTTTTTTCTTAAAAAAAAATTTTTTAAAAAAATTTTTTTTTTAAAAA
AACGAGAAAAAAAGGCCAGAAAAAAAGGGGGGGGTATTTTTTTTTTTTTTTTCCCCAAAA
AAATTTTTTTTGTGGCTTTTTTTAAAAAAAAAAAAAATTCACCTGGAACTGAACCCGGGG
GGGGGGGGAAAAATATTTTTATATAANNNGCCCCCTTTAAGTTTTTTTTAAAAAAAAAAG
GCCCCCCCCCCGCGTGTTTTTTTATAAAAAAAAAAACCCCCCCCTTTTTTTTTTTTTTTAT
TAAAAAAAAAAAAAAAACCCCCCCC

Sequence=11132;DNA;Homo sapiens

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ATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTAATTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAAAAAAACCCCCT
TTTTTTTTTTGGGGAAAAAAAACCCCCGCCAAGGGGGGGTTTTTTGGGGGGAAAAAAAAA
AAAACCCACCCCCTTTTTTCCCCCCCCCCCCCCCCATTTTTTTGGGGGGAAAACCAAGGG
GGGGGGGGCCACCAAAAAAAAAACCTTGGGGGGGGGGCCCCCCCGGGGGGGGCCCCCCCC
CGGGGGGGGGGGGGGTCCCCAAAGGGGGGCTCCTTTTTTTGGGGGGGGGGGGGGGTTCCC
CTCCCCAAAAAAAGGGGGGGGGTTTTTTTTTTTTTTGGGGCCCCCCCCCCGGGGGGGGGA
TTTCCCCCCCCCGGGGGGGGGTTTTTAGGGAGCCCCCCCGGGGGCCCCAAGGGGGGGAAAA
AGGGG

Sequence=11133;DNA;Homo sapiens

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GTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATTTTT
TTTTTAAGAAAAATGGAATCACACTAAATATTTCAGAAAAATATTTCTGAAATGTTAATT
ACCAAAGGATACAAAACTGTATTGAAACCATGATTCAGTTGTGTAAAAGAAAATCTGTAA
GGAGATATGTGAAAAGATTGGTTGCAAGGGAATAATGAAATTACAAGTATTAGAAGGAAT
GGCTGGGCATGGTGGCTCACGCCTGTAA1CCCAGCACTTTCGGAGGCTGAGGCAGGTGGA
CCACCTGAGGTCAGAAGTTCGAGAGCAGCCTGGCTAACATGGTGAAACCCCGTTTCTATT
AAATATACAAAAAATTAGCCGGGCAT

Sequence=11134;DNA;Homo sapiens

CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGGTAAGCCCTGGCTGCCTCC
ACCCACTCCCAGGGAGACCAAAAGCCTTCATACATCTCAAGTTGGGGGACAAAAAAGGGG
GAAGGGGGGGCACGAAGGCTCATCATTCAAAATAAAACAAAATAAAAAAGTATTAAGGCG
AAGATTAAAAAAATTTTGCATTACATAATTTACACGAAAGCAATGCTATCACCTCCCCTG
TGTGGACCCGCGTACTTGAAGCTTTCAATTTAAGTGGACCTTCAGGCTGGGAAGACCATT

TABLE 2
1791/3461

TCTCTGTTTTATCCTCCATGCTGGCAAGGTCATGTCCTGGCTTGGAAAGAGGAGTCTCAT
CTATTTCTCCTGGAAGAACCTGGGTTTCTGGAAGCCTCATGCCAGGCATTTGAAAAGGGA
GAGGTCCTTTGGATGGATGGATCCTGACCTCAGAAGTGGAAAGCTCATTCCCAGTCATCC
CAGCAGTGGAAAGGTGCAGCTTTAAGCCTGTGCTGTCAAGATCACA
Sequence=11135;DNA;Homo sapiens
GGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGC
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CCCAAGGGGGGGTTTTCCCCCCCCGGGGGGGGGGGGGCCTGAAAAAAAAAAAAAAAAGGG
TTTAAAAAAAGGGGGGGGGTTTTAAACCCCCCCCCCAGGGGGCCCCCACCCCCCTTTTTG
GGAGGGGCCCCCTTTGAAAAAGGATTTTGGGGCCCCCTTTTTTGGCCCCCCCTTAAATAA
AAAAATTTTGGAAAAATTTGGGGCCCCCTCTTGGGGGGGGCCAATTTTTTTATTAAGGGG
GAAGGGAACCCAGGGGCCTTTTTTTTTTTTTTAGAAGGCCCTTTTTTTTTTTTTTTAAAAA
ATTAAAAACCCTTTTTTGAAAAAAAGGTTTTTTTAAAACCTTTTTTCAGAATTTTTTTGG
GAAAA
Sequence=11136;DNA;Homo sapiens
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
GATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTT
TTTTTTTTTTTTGCTTTCTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTTT
TTTTTGTTTTTTTGTTTTCTCCCCAAAAAAACCCGGCGGATTTATCCCGGGGAAAAAAGG
GTTTTTGGGGGGATAAATTAAAAGGGGGTGGAAAATGTTTTATTTTTTAAAAAGGCCCCT
TACCGGGAGGGGGGGCACCAGGAATTTGGGGAAACCAAAAACTCCCCCTTTTATAAAAAA
AAAAAAAGGCCCCCACAGGGCTCCCCCGGGGGGGGGGGGGGAAC
Sequence=11137;DNA;Homo sapiens
CACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT
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ACTGTCCTGAGCTGACTGCTTGTTACGGATTTTCCTCCTGACCTTCTTGAGGACCCTCTC
CTCTGCCTTGGTGAGGGGCAGGTGAGAGGGCAGGGAAACCCCTTCCTGCCCCAGCAGACG
CTTCTCCTCATCGGCCAGGAACAGGGTTTGACAGGGCAGCTGGGGGTAGGGGCAGGAGAA
GATGCAATAGGAGTGAGGAGGGGGTCATCCCATTTGCAGCACCCAGGCTACTCCCCCCAC
ATGCCTTCTGGAGAGTGTTTCCTCACTGGGAGACAACTTTAATCTAAAGGTGAGGTGAGG
GGCANAGACTTTAATTCAGACAGGCTCTAGATCAAGCCAAAGGGACATCCTGAGGCCAAG
AAGGGAGAGAGGAGGGTATTGTCATATCCTTCACCCAGACACTGAGGACCTTGGCACTCT
GAGCAAGCTAGAAAAGGCTTATTCTGGTCCATG
Sequence=11138;DNA;Homo sapiens
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AAGCATTTCAGTGCCATCACAAAACAAGTAGAGCTGGGTAGAGCTGGGCGCGGTGGCTCA
CGCCCGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGTGGATCACGAGGTCAGGAGTTCA
AAACCAGTCTGGCCAAGATGGTGAAACCCTGTCTCTACTAAAAATGCAAAAAAATCAGCC
GGACATGGTGGCGGGTGCCTGTAATCCCAGGACTTTGGGCAAGGCGAGAGGATCACCTGA
GGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGCAAAACCCCATCTCTACTAAAAATAC
AAAAATTAGCTGGGTTTGGTGGTGGACACCTGTAGTCCCAGCTACTTGGGAGGCTGCGGC
AGGAGAATCACTTGAACCCCGGAAGTGGAAGTTGCAGTGAGCCAAGATCGTGCCATTGTA
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TGCCTTCTAAGTTGAGAGGACAAAACTGAATAAAGTGAATGTTAATTGTCAAAAAAAAAA
AAAAAAAAAAA
Sequence=11139;DNA;Homo sapiens
AGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGTTACT
AAAATGTGCTTACTACAAAACAGTAAAATATTTCACTCTGTAAATCATCACTAAGTAGTT
ATTCTGTCCTGTTGATTATGAGCCTCCAAAAATGTTTAATGCTTGAAGGATGGTTTGGGA
GGCAGGGAATCCTTTTCTTAAAACACTTTAATGAGGCATATGTTACATATCATAAAACAC
CCATTTCAAGTGTACCTGCCC
Sequence=11140;DNA;Homo sapiens
GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA

TABLE 2

1792/3461

ATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGGATTAAGTTTCCAACACATGCT
TTTTGTGAAACATGTTCAAACCATAGCATTTTCAAATTCCAAAATAAGATTCCCTTACAA
TAGTATCTTACCAAACACAGTGGCTCATGCCTGTAATCCCAGCACTTANGGAGGCAGAGG
CAGGAGGATTGCTTGAGCCCAGGAGTTTGAGACCAACCTGGGCAACATAGTGAGATCTCA
TCTCTACG

Sequence=11141;DNA;Homo sapiens

GCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA
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CCCCCAAACGACCAAAAGGGGGGGGGGGGAAAAAAAAAAAAGGGGGGGGAAACCTTTTTT
TGGGGGGGGGTTTTTTTTTGCGGCGCCCCCGGGGGGGGAAAAAAGGGGGCCCTTTTTCAA
AAAAAGAAAAAAGGGGGGTCCCCCCCCCAAAAAAAAATTTTTAAAAAAAGGGGCACGGGGG
GGGAAAAACCCCATTTTTTGGGGCACAAACCCGGGGGGGGGGAAATCCACCCCCGGGGGGG
GGGGTTTTAAAAGAGAACGCCCGGGAACAAAATGGGGGGAAAAAAAA

Sequence=11142;DNA;Homo sapiens

GACCCACGCGTCCGACAGGGTCTGATCTAGGGAGAGGCCAACTCTGATACCCCTATGTGC
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TTTGGTCTACATGATCACAACATGCAGTGCCCGGGACAGAACAGACCTGCTCAACGTTTG
CATGGATGCCAAGCACCATAAGACAAAGCCAGGCCCGGAGGACAAGCTGCATGACCAGTG
TAGTCCATGGAAGAGAAATGCCTGCTGCTCAGTCAACACCAGCCAGGAGCTACACAAGGA
CAACTCCCGTCTGTACAATTTCAATTGGGATCACTGTGGCGAGATGACGCCCGCCTGTAA
GCGTCACTTCATCCAAGACGCCTGCCTGTATGAGTGTTCCCCCAATCTTGGGCCTTGGAT
TCAGCAGGCAGGCCAGAGCTGGCGCAAAGAGCGCTTCCTGGATGTGCCCTTATGCAAAGA
GGACTGTCAGGAGTGGTGGGAAGCCTGTCGTACCTCCTTTACCTGCAAGAGAGACTGGCA
TAAAGGCTGGGACTGGACCTCAGGCATTAACAAGTGCCCAGACACAGCACCCTGCCGCAC
ATTTCAGTACTATTTCCCGACACCAG

Sequence=11143;DNA;Homo sapiens

CACTATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGAT
ATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCTCTAAAATTAAAATC
ATTAGAAAATATCTTAAATAAAATGTTTTACATAAATAAGTGTTAAATTTCAGATTCAAA
CTATATTTTCTTCTGTATCTCAATTTGGGAAAAATCTCACAATTATTAACTCTTCTCAGT
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ACCTCTCCCCATGCCTATGTGCTGTCTTTCCTCAGGTAAGTCCATTATATGCATCTAAGT
GCTGGGGAGGTTTAAATAGCACTTAAAGAATATTCATGAGAGTTCTGAAATGAAGGTTTC
GTCTTTAGCTATTGACTGTAGGATTTGTAATTCAAATCATCACAGCATCCTAAAGAAATA
CTGTGTGAATGGAATGCACACAATTCCTACAGAACA

Sequence=11144;DNA;Homo sapiens

TTTACCCTGATACCTGATTTTTCGTTTGGGCTGACGACCCTTTCTGGACTTATTCCGCTT
TTGGGTTGGTCTCTAACAGTAAGGTATGCTTGAGGTGTGGCTGTGTGCTGATACACACAG
TGGAAGGAGAAAGCTCCTCATCCCAGCTGTCTGTAGCACTGCTATCCCCACCTGATATGT
TGTCCTGCTTCCGCCGATGAAGTCTAATAACCTTCCCCCTGCTCATTCCCCTAAAGAGGG
AAAATTAACTTATAGTAGTCCTTCCAACAGCATGCATCACATCATAGCACACATGGGCGA
AGTGTCTGTGCATATGCTACCCCCTCTCTTCCACCTACCAAATGTTTCCAGGACATTAAA
TGTCATATCAAATTCAATA

Sequence=11145;DNA;Homo sapiens

CCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCATAC
GAGCGGTCGCCCGGGCAGGGACTTAGTTTTTTTTTTTTTTTTTTTTAAATTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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AANNNATATNTTNTTTTTTTTTTTTTAAAAAAAAAAAAATTTTTTTTNNNANNNNAAAAA
AAAAATAAAATAATTNNTTTTATTTTTTTTTTTTTNANTTGNGGAAAAATATATTTTTTAA
TTNTAAAAAGAAAAGGGGGGAAAAAAAAAAAA

Sequence=11146;DNA;Homo sapiens

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ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAGCAT

TABLE 2
1793/3461

AAAAATAAAGGTATAAAGAAAGATATACCATGTTAATACTAGTCAAAAGAAAACTGGAGT
AGCAGTATTGATATCAGATAAGGCAAACTTCAGAGGGAGAAAAATGATCAGGGATAAAGA
GGGGCATTATATAATAAGAGGGTCAATACTCCAAGAAGACATTGTTAAATCCTTAATGTG
TATGCACCTAACAACAGCATCAACGTATGTGAAGCAAAAACTAATAGAACTGCAAGAGAA
ATAGACAAGTCCACTATTATAGTTGGAGACTTCAACACTCTTCTATCAGTAATTGACACA
TTTAGCAGGCAAAAAAATCAGTAAGGATATAGCTGAACTGGACAATACTGTCAAGCCACT
GAATCTAATTGACATTTACAGTATACTTCATTCAACAGAGTACCTCGGCCGCGACCACGC
TAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGC
TTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCA
CACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAA
CTCACATTAATTGCGTTGCGCTCAC

Sequence=11147;DNA;Homo sapiens

CTATATGGCGACTGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGGGATAACTTAATATCC
TATGTTGTGTCAAGACTCTTTGAAGACTTTCTTGAATTGCTTTCGTAAAGGTCTGAACAC
TGTTAAGGAGAAAGCTGAGTATCAACTTGCCTTTCTGATAGAAATGTTTCTTGTGCCAGT
TTTATTGTTGAGATATACTATTTTTTTCCTTTTTTTAATTCAGTTTTTTAAAAAAACAAAT
GTATTGTGGCTTCCAGTTACCAGGTTGTCTAGGTAATGACAGTAAACTGACTGTAGAATG
ATAATTGTGGTATAGTGACCAATAGATGCCAAACAGCTTGTGGCCTCACTAAAGGTGGGG
TCGCTTAGTCCCCGGGAGTAAAATGAGTGACCTCAGAAACAAGAATTCCTGGAAAGGCAC
ATGCCGAAGAGGAATATGGTATAATTTTAAATTTTAATGCAAAATTTTAATTT

Sequence=11148;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG
GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTAATCAAAC
CACTACATCTGGATCAGAGACAAATGACCTCCCAGATTGACTAGTTTTGTAAGGAACTTC
AGTTGAAATTGAAGCAGTCATCAGCTGCTTCTCAAACCAGCTACACTACATAAGGAGGAG
CCCAAGGGAAACTGCAGGACAACAGGTCCACTGGGAAACTTCAGGGGGCCAAGCTGTCAA
AGACAAGCACAGAAAAATTCCTGCAATGTGCGTTAGACCTTGAGGCAGCTTTTAATGGCA
AAAGTCAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTT
ACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAAT

Sequence=11149;DNA;Homo sapiens

TATAGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT
GCAGAATTCGCCCTTTCGAGCGGCCGCCCTGGCAGGTACAAAAAGTAGCCGGGCGTGGTG
GCTGGCATGTGCCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAAC
CTGAGAGGCGGAGGTTGCAGTTAGCCAAGATCACGCCATTGCACTCCAGCCTGGGCGACA
GAGTGAGACTCCATCTCAGAAAAGAAAAAAAATAATAAAAAAAAAAAAAATGTACCTCGGC
CGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCT
CGGTACCAAGCTTGGCGTAATCATGGGCATAGCTGTTTCCTGTGTGAAATTGGTATCCGC
TCACAATTTCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAAT
GAGTGAGCTAACTCACATTAATTGCGTTGCGC

Sequence=11150;DNA;Homo sapiens

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CTGCAGAAATTCGCCCTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTATTTTT
TCCCTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTTTTATTATATTTTTTTTTTATT
TTTTAACCACAAAAAAAAAAAATTTATGGGGGGGGGGGGGGCCAGAAAAAAGAACAAAAA
AAAAAAGAAGGGGGGGGGTAAGAAAAAAAAAAAACCGCAAGGAAGGTTATGGGAAAAAAA
AAAAACCCAAAAAGGGGGCCGCCCCCCGGGGAAAGAAAGAAAAGGGGGCATATTTAATAA
TGGGGAGGGGGGGGGGTTTTTTTTGAAAAAAGAAAATCTTTTTTTTCATTTCGCACCACAA
AAAAATAAAAATTTTTATGGGGGGGGGNCCCCCCCCCCCCGGAAAAAAAAAAAGGCTTTT
TTTAAACAAAGGGGGGGGGGGTTTTTTTTTTT

Sequence=11151;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGATACTT
GACAATTTGTTTTATTATGTAATTGATAAAATGGTGATGTGTATTAATGTTAGTTCAACC
ATATATTTATACTGTCTGGGGATGTGTGGTTATAGTTCTGTGGGAGAAATAATTTTGTCA

TABLE 2

1794/3461

GTGTTCACCAGCTTGTAAAAACTTAGTGCGAGAGCTGAAACATCTAAATAAATAATGACA
TGCATTTATCATCAAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGAAGG
GCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGC
GTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATTCCGCTCACAATTCCACACA
ACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCA
CATTAATTGCGTTGGGCTCACT

Sequence=11152;DNA;Homo sapiens

TATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATCTAGGTCCGGCGTGGTGGCT
CACTTTGGGAGGCCGAGGCGAGCAGCACTTTGGGAGGCCAAGGCGAGCAGAACACTTGAG
GTCAGGAGTTTGAGACCAGCCTGACCAACATGGAGAAACCCCGTCTCTATTAAAAACACA
AAATTTACCCGGGCATGGTGGGGCATGCCTGTAATCCCAGCCACTTGGGAGTCTGAGGCA
GGAGAATTGCTTGAACCCGGGAGACGGAGGTTACATTGAGCCGAGATGGCGCCATTGCAC
TCCAGCTTGGGCAACAAGAGCGAAACTCTGTCTCAAAAAAAAAAAAAAAATTCCAAATTGA
CTCCGGGGTTAACCTCCGGGGGCTCACCCCCAACTTGGGGAACCCCCGTTTTTACTAAAA
ATCCAAAATTTACCTGGACGTGCTAGGGCCCCCCTGTATTCCCACCTCCTGGGGACCCTG
AGGCAGGAAAATGGTTTAACCCCAGGAGGGGGAGGTTGCATTGACCCAAAATCACCCCTT
AGCACTCCACCCTGGGGGACAAAGCAAAACTCCGTCTAAAAAAAAAAAAAAAAAAA

Sequence=11153;DNA;Homo sapiens

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TCGCCAAATTTCCTTTTAATCCACGCCATGGTACGCGGGTCGGAAACCACGCGTCCTACT
ACAAAGATGCTCTGCGGTTTTTGGGCTGTGTTGACATCAAGGATCTACCAGTGTCTGAGC
AGCAGGAGAGAGCCTTCACGCTGGGGCTAGCAGGACTTCTCGGCGAGGGAGTTTTTAACT
TTGGAGAACTCCTCATGCACCCTGTGCTGGAGTCCCTGAGGAATACTGA

Sequence=11154;DNA;Homo sapiens

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GTTGTCCTTTCTGTGCTTTTATCTGTCACGACAGGAAGGTGTGGAAAGTTTATATCGTTT
ATATCCTTAATTTGACTACTCTTGGATATTAAAATCTTTCTATTAATTAAAAAGACTTTT
AGACAACCTCTTAAATGGAATTACACTATGGAAAACAGGGCTCCCCCAAAAACACCTAGG
CAGAACTGAGAGTTCTTTGAAAACCATTCCCAATAAAAACTAAATGAAAAATAAATATAA
AACAAAGCTTAAAAAAATATGCATTACCTGACACCAACCTTTTCTGGCTGACAATATTTA
TTCATGAAAACATATCAGCTGTCTACCTTTTATATGCAAACCAAGTCCTGAGGTTAACTA
GGGGCTGAAGCAAACTAGCATTTAGGATGCAAACATTCTTGGATTTGTGATGTAAACTTG
CCTTGCACAGGGAAGTTTGCTGGTCTATACAGAATGAGAAATTCAAGCCCTATTTTAACC
CCTGCCCTCTTTAGCTTTCACAAAACATTGGTCCACAAAATAAAATTTTCAAA

Sequence=11155;DNA;Homo sapiens

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Sequence=11156;DNA;Homo sapiens

ATATGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT
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AATTTGTTATACATTCAAATGCAAATTAGAACTAGCTGCCTTACGATGAGATTTCACTGT
CATTTTTTTAGCACCCTAATTTTTGTCGGTTCTGTAGGTTTCAAGTAGCAGAAACTTACA
TCTATTTCCTTCAGAAAATTAAGGAGCAGATATTTTAATATGCTTTATGTAAATAGGATT
CTGATAATTTTAGCTTTAGTTAATGCAACACACTTGCCTGGGCACAACCATGACCTCTCT
GAGAACTGGAAAATACTGCATAATTTTAAAAATCAGAGTGTAATGACATTCCCTGACAAC
TTCAAATAAGTTATGTGAGGAGGATGAACTATGGGTAGTCTAGACCACCAGTCATATTTG
TCTAGCCGTAGAAACAGTGACAACTTAAAGATCTGCAAAGATCAGAGCAGAGCTGGCTGA
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TABLE 2
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CATTCT
Sequence=11157;DNA;Homo sapiens
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CATCTTGGCAATACGGACATTTTGATTGATACTTGCTGTTTTGTCTTGTTGTCGCAAGTA
AATTTGGAAAACAGCATGAGAACGAGAAGATGTGGCATTCATATCAGTGGGATGTTGTGT
CCTGTTTTTGTTTCCATTATCCAATAAATGCAAAATTTCTTCTGAGGATTTGGGCTGGTG
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TGAATTTACTAAGAGATCACAAATCTGTTCATTATATACCTCCAGATATGAAACTGCAGT
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Sequence=11158;DNA;Homo sapiens
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Sequence=11159;DNA;Homo sapiens
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CCTATAGACTCCATATTAGCAGACTGGAATGAAGATATAGAAGCATTTGAAATGATGGAG
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CTGTGTGTGGTTAATAGACATCCTAATACTAAGCAGGCTTTCTAATGGGAGGCTTTAAGT
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Sequence=11160;DNA;Homo sapiens
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TABLE 2

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CTAGAGTATTTGTAAACTAAAATGTTATATAGAAAATAACCACATATTTGGTCATTTACT
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Sequence=11163;DNA;Homo sapiens
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Sequence=11165;DNA;Homo sapiens
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TABLE 2
1797/3461

ACCTCGGCTCACCCTGTCCAGGTCCCAGGGACCCAAACCACACTCACTTACACAGAACCC
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Sequence=11169;DNA;Homo sapiens
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Sequence=11170;DNA;Homo sapiens
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Sequence=11172;DNA;Homo sapiens
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Sequence=11174;DNA;Homo sapiens
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TABLE 2
1798/3461

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TTTAAGTGCCCCTGTGAATGTGATTTCTTAGCTCTTGCAAGTCCATATTTGGTCGCAACC
AGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTA
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Sequence=11175;DNA;Homo sapiens

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Sequence=11176;DNA;Homo sapiens

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GGGGG

Sequence=11177;DNA;Homo sapiens

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C

Sequence=11178;DNA;Homo sapiens

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Sequence=11179;DNA;Homo sapiens

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TABLE 2
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GGATCCAAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTGCTGTGTGAAA
TTGGTATCCGCTCACAATTCCTCACAACATACGAGCCGGGAGCATAAAGTGCAAAGCGCT
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Sequence=11180;DNA;Homo sapiens
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CAGGAAACCATCCTCCACTGTGCTTCTTTCTGGCCTTTGCTACCCCTGTTT
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TABLE 2
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Sequence=11187;DNA;Homo sapiens
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TCCCTCGCAAGTGCGCCAGAACTACCACCAGGACTCGGAGGCTGCCATCAACCGCCAGAT
CAACCTGGAGTTGTATGCCTCCTACGTCTATCTGTCCATGTCTTGTTATTTTGACCGGGA
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TATAAAGAAACCTGACCGTGATGACTGGGAGAGCGGGCTGAATGCAATGGAGTGTGCACT
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Sequence=11189;DNA;Homo sapiens
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Sequence=11190;DNA;Homo sapiens
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CGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGC
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Sequence=11192;DNA;Homo sapiens

TABLE 2

1801/3461

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Sequence=11193;DNA;Homo sapiens

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TABLE 2
1802/3461

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TABLE 2

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GGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTG
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TABLE 2
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TABLE 2

1805/3461

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Sequence=11216;DNA;Homo sapiens
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TAACCGAAAGCTTTAGATAGACTTCTTTCTAGTAAAATATAACATAATGAATATTATTTC
ATTCTTACTTTGTTTTTGATCTTTCATACAAGTAAAAAATGTAAAATACTACACAGATTT
ATAAGTGTGCTTAGTAATCACTTTTATGAAAGACACTTGTGAGGATAAATATAATACAGT
GCACAGACTATGGCTGTATTAGTCTGTCTGATGCTGCTAACAAAGATATACCCGAGACTG
GGTAACTTATAAAGGAAAGAGGTTTAATTGACTCACAGTTTGGCATGGCTAGGGAGGCCT
CAGGAAACTTAGAATAATGGCAAAAGGCACCTCATCACAGGGTGGTGGGAGAGAGAATGA

TABLE 2

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GTGCCCAGTGAAGGGGGAATCCCCATATAAAACCATTAGATCTTGTGAGAACTAACTCAC
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ACGTGGGGATTATGGGAAC

Sequence=11221;DNA;Homo sapiens

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TCTGCTTCTGTATTTCCCATGTAAATTTACAATGTATTTTGTCCAGTTACTGAGATAAAT
ACCTCTACTTTTGCACCTAGACATTTAGGAGCCATTGTTTACTAAATTCATTTGATGCTG
TCTTCTAAAAGAACTAAAATCTAGCATCTCCTCTTCATACCTCCTGCCACTGTCTTTCAT
TTTCCATACCTGGAGTTATGATAGTAGATTTTTAACGAGCTTTTCCCGTCTCTGTCTTCT
ACCTAGATCCAGTATACTTCTGCAGTCTGGTATGTTTTTCCCCCTAAGAACCTCAGCTGA
GAAATAAAGCAGGTTAACAAAGCTGTATGAAATGTCACTGGCAGT

Sequence=11222;DNA;Homo sapiens

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TCTTGGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGCAATTCTCATGCCTCAGCCTCCC
AAGTAGCTCAGATTACAGGCATGTGCCACCACGTCTTGCTAATTTTTATATTTTTAGTAG
AGATGGGGTTTTGCCATGTTGGCCAGGATGGTTTTGAACTCCTGGCCTCAATGATCCACC
CACCTCAGCCTCCCAAAGTTTTGGGATTACAGGCGTGAGCCACCGCACCTGGCCACAAAT
CAGAATTTCTATTATCAAAGGAAGTTTTATATTAGTTGAGAAATGACTGTTTCTGACATA
GTCAACCTCTCTGGTCACCATGAAAATGCATGGTGGCAACCATGAAAATGCTCCATTTAC
ATATTGTTCGGTGAGGAAATTGACAACCCCAGCTACCATTGTTCTGGATCTACT

Sequence=11223;DNA;Homo sapiens

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TGCACAATAAGCCACCTCACATTTTTCAGCAAGAAATACATTAAATTTGAATAGTAAAGA
CGTTACACAGTGAATTAGGACACGATTAAAATTTGCTTTAAATATTTCTTTGGGGGAAGG
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Sequence=11224;DNA;Homo sapiens

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CCTGAAAGTCACCACCTTGGTCTTTTATAATCGGGACCATGAGGAAGCCCAAGAAAAAGG
GAGAAAAGGAACGAGAAAAAGGCAGAGGCACTAATAGCTGCCATACAGGCATATAAACCT
CTCGATCCCAGGGAGCTTCTCATTCTATGACCGACTGTTATCAGTGTGGGAGCACTAAAA
GAGAGTCTGCCCCCGAAATCAGAAGCAGCCCCCACGGCCCTGTCCAATCTGTAAGGGAGA
CTACTGGAAGACAAACTGCCTCCAGAAACATACGTCCCAAGGTTCAGAGCCGGCTTCTCA
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Sequence=11225;DNA;Homo sapiens

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GAAAGAAGAAGAATTGTCTTGGGCCACATATAAAATACACTAACACTAACAATAGCTGAT
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CCTCCGCCTCCCAGGTTCAAGCAATTCTCCTGCCTTAGCCTTCCGAGTAGTTGGGATTAC
AGGCATGCGCCACCATGCCTGATTTTGCATTTTTATTTGAGATGGGGTTTCTCCATGGTG
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Sequence=11226;DNA;Homo sapiens

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TABLE 2
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AAATTCCTTGAGTCCAGGAACTATTTGATTGAATATGTATCATCATAATCTTGCTTGATT
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AAGCAAGTTGAAGATGACATTCAGCAACTTCTCAAGAAAATTAATGAGCTCACTGGTATT
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CAATGTTCATGGGATCCTGACAAATCTACTATATAAAGTGAGAGCCCTTATTTAAATTTG
AGCAATTTAAGTTTTTCCCCAGAATGTCTCCTTTGTTGGTTCCACAAAATGTATTTTGTT
TTTAGTGTTTAAAGTCAACAAACTGGCATTGCATTTTCCTTAACTTACATAAACTCATCA
GAATTACATGAATATTCCTACTGCTTA

Sequence=11228;DNA;Homo sapiens
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TGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGGCTC
TTTTACCAAGGACCCGCCAACATGGGCCGCGTTCGCACCAAAACCGTGAAGAAGGCGGCC
CGGTCATCGTAGAAAAGTACATCCCGGTGAATCAAAGACGGTGGCAGCAGGAGAATTAAG
GTGACGCATCCAAATGAGCAAGGGAGATGGGGGTGGACAAAAAAAACCAATGAAATGTTC
CTTGACCCCAAGGTCTCAGCAGAAGTTTGAAGTCCTTCCTGCGTTAAGAGTCTGCAATGT
GTGTCTACACACACCAAGACATCCAGAGTGTCACAGCCTGTCTTCACTGGGCAAAAGTCC
AAGTCACTAATNTAGTGCAAAGGGCAGTTCTGTTTCTTGTTTCTTAAAAACAAACAAACA
AAAAATTTTCATTCCACT

Sequence=11229;DNA;Homo sapiens
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TGGGAGACCGAGGCGGGCAGATCACGAGGTCAGGAGATCAAGACCATCCTGGCTAACACA
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Sequence=11230;DNA;Homo sapiens
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GCCAGAGGCCCCCTGAGGAGCTCTGCGCCGCCCCGCGTACAGCCGTTGTCAATGGAGAGT
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GCATCAACATTACAGTCCTGATTTGGTTTCTTCTGACATTTTTTCCCTAATCTTAAAATA
ACTGTAAAGGGCACCCATTTTTCTTTAGTTAATAATAGAAGACTGCATTGACACGGTTAA
ATTCCCATTACCCTCAGTTCTTTAGCAATGGAATGAATGACTGGGATCATCGCTTAATGG

TABLE 2

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AGTGTCTGGACCTCAGTAGAGCTTAAATTGAAAAATAAAGTTTATATTTATATTTTTAAA
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TCCCCCCCCTGGGGG
Sequence=11232;DNA;Homo sapiens
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TABLE 2

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AGGATAAAGGAAAATTTGTGTCCAAAATATCTCTAAAGGTATTACACTGTATTCCTTTAA
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ATGA

Sequence=11238;DNA;Homo sapiens
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Sequence=11239;DNA;Homo sapiens
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TGGCTGTGTGAGGCCTAGGTGGGGGCATCACTGGCTGAAGGTCCGTGGCTTACAAAGTGA
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GGCTTCCAACATGAAATGGGGGAGGGGAGAATTATACATTATACGTCCATGTGCATATCA
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Sequence=11242;DNA;Homo sapiens
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Sequence=11243;DNA;Homo sapiens

TABLE 2
1810/3461

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Sequence=11247;DNA;Homo sapiens
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Sequence=11248;DNA;Homo sapiens
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TABLE 2
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AAAAAAAAAAAAAAAAACAAAAAGCCTAGGCGGCCGGAGATTCTAACAATGTTTTTTTAA
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Sequence=11249;DNA;Homo sapiens
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Sequence=11251;DNA;Homo sapiens
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CAGACAAGCAAGTATCTCTTTTCACCAAGGATGGAGTGCGGCTTGGGACTGTTGGGGAGC
AGAACTCCTGGGTGTGGACGTGTCAAGCGAAACCGGATTCCAACTATGTGGTGGTCGGCT
GCCAGGACGGCACCATTTCCTTCTACCAGCTTATTTTCAGCACAGTCCATGGGCTTTACA
AGGACCGCTATGCCTACAGGGATAGCATGACTGACGTCATTGTGCAGCACCTGATCACTG
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Sequence=11252;DNA;Homo sapiens
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TATGCTGAAATTTTTGTATGCCATTTAGTATTTTTATAGTTTAGGAAAATATTTTCTAAG
ACCAGTTTTAGATGACTCTTATTCCTGTAGTAATATTCAATTTGCTGTACCTGCCCGGGC
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TABLE 2
1812/3461

GACTCACTATAGGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT
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AACATGAGAAAAAC

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TABLE 2

1813/3461

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Sequence=11260;DNA;Homo sapiens

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CATGGTCAT

Sequence=11261;DNA;Homo sapiens

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CAATCCACCTGCCTCGGTGGCCACAGTGCTGGGATTACAGGTGTGAGTTGTTTTTTTTTT
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TABLE 2
1814/3461

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TABLE 2
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TABLE 2
1816/3461

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GAAAGAAAAAAGAAACTATTTATTCTCGATATTTTGTTTTGCACCAACAAAGGCAGCTGG
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TABLE 2
1817/3461

Sequence=11282;DNA;Homo sapiens
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Sequence=11283;DNA;Homo sapiens
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Sequence=11284;DNA;Homo sapiens
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TABLE 2
1818/3461

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TABLE 2
1819/3461

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TABLE 2
1820/3461

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TABLE 2
1821/3461

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TABLE 2

1822/3461

TAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATA
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TACA
Sequence=11311;DNA;Homo sapiens
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Sequence=11313;DNA;Homo sapiens
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Sequence=11314;DNA;Homo sapiens
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CACTTTGGGAGGCCAAGGTGGGTAGATTGCTTGAGGCCAAGAGTTCAAGACCATCCTGGG
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Sequence=11315;DNA;Homo sapiens
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CAATTTTTTTCTTATTTTTTTAAAGGTAGACTTCAGAATCATTTAATCAAATTCCAAAAA
CAAGGCAGTTTCATGGGAACTATATAAAGACAGAGAGAAAGAGAAAGAAATATATATATA
CACATATATATATTCTTTCCATAATGAACATGAAATTTATCAAAGGCTCACGTATGATTC
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TABLE 2

1823/3461

GCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAA
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Sequence=11316;DNA;Homo sapiens

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AA

Sequence=11317;DNA;Homo sapiens

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CAAATCAC

Sequence=11318;DNA;Homo sapiens

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Sequence=11319;DNA;Homo sapiens

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AAAA

Sequence=11320;DNA;Homo sapiens

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TABLE 2

1824/3461

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Sequence=11321;DNA;Homo sapiens

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Sequence=11322;DNA;Homo sapiens

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CCCTAGCAATTTATTTAGACTTAATTTTTTAAATTCAAGCTTACTGTATTAGTCATTTTT
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Sequence=11323;DNA;Homo sapiens

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GCGACCCAGACAATTATACCCTAGCCAACCCCTTAAACACCCCTCCCCACATCAAGCCCG
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Sequence=11324;DNA;Homo sapiens

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Sequence=11325;DNA;Homo sapiens

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TABLE 2
1825/3461

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TABLE 2

1826/3461

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Sequence=11332;DNA;Homo sapiens

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Sequence=11333;DNA;Homo sapiens

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Sequence=11334;DNA;Homo sapiens

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Sequence=11335;DNA;Homo sapiens

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Sequence=11336;DNA;Homo sapiens

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Sequence=11337;DNA;Homo sapiens

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TABLE 2
1827/3461

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Sequence=11338;DNA;Homo sapiens
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Sequence=11339;DNA;Homo sapiens
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Sequence=11340;DNA;Homo sapiens
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Sequence=11343;DNA;Homo sapiens
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TABLE 2

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Sequence=11344;DNA;Homo sapiens
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Sequence=11345;DNA;Homo sapiens
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GTCTTTATGTTCCTTTGTATAATTCCTTTTTTTTTCAGAGTCCAGTCTTGGATGTAATCCA
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Sequence=11346;DNA;Homo sapiens
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TABLE 2

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TABLE 2

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Sequence=11356;DNA;Homo sapiens

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Sequence=11357;DNA;Homo sapiens

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Sequence=11359;DNA;Homo sapiens

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TABLE 2
1831/3461

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TABLE 2

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Sequence=11366;DNA;Homo sapiens
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Sequence=11368;DNA;Homo sapiens
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Sequence=11371;DNA;Homo sapiens
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Sequence=11372;DNA;Homo sapiens
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TABLE 2

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ACTGAGCTTATGGCAGAGATGTTGGAAATATCAGACCTTGAATTTTTAAGACTATGATTA
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Sequence=11373;DNA;Homo sapiens

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Sequence=11374;DNA;Homo sapiens

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CAAAGAGCTATAAACTCCCCCTCTAAACTTGGCCTTGGTGTTCTCACTTTTTCTGTGATA
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Sequence=11376;DNA;Homo sapiens

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Sequence=11377;DNA;Homo sapiens

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Sequence=11378;DNA;Homo sapiens

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TABLE 2

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TABLE 2
1835/3461

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TABLE 2
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TABLE 2

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Sequence=11401;DNA;Homo sapiens

TABLE 2

1838/3461

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TABLE 2

1839/3461

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Sequence=11408;DNA;Homo sapiens

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AGCGTGGTCGCGGCCGAGGTACCATATTTCAGATATTGGCACATTCGGCTTGTATAAGGG
GAGACGCTTTTTTTGCAGTTGGACGGCCATTGAAGACAAGTTGGTCACCCCAAGTTTTCTT
TCCAGTTCTTCTGAAAAACTCACTATAGAAAAAGAAAGCAAGAAATACAGAAAAGTATAG
AAAAATAATCCATATTCCCACCACCTAGGATTAAGTTGTTAACAAGATGAAAACTTCATA
CTGAAAAACCACCCTTTCTAGAGGCGATTTACCACTTATTCCTTGCCTTTCAAAATATTA
ACTTTTTCAGGGTATTCTCTCCTTATTAAATTGAAAAAAAAAATGTTTCTTTTAAATAGA
GATTGTTAACTTGGGGTCTGGCTAGGCTGTGAATTCTTTGATATTAAACAAAAGATTTTG
TTGAAGGTGCTTATAAGGCTTTATTTTTCTTACTTTCTGCTCTAGCCCCATATGTGCAGG
ATTT

Sequence=11409;DNA;Homo sapiens

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG
GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTATCTTATGAT
TAAAAACAAATTAAATTTTAAAACACCTGAAGATATATTAGAAGAAATTGTGCACCCTCC
ACAAAACATACAAAGTTTAAAAGTTTGGATCTTTTTCTCAGCAGGTATCAGTTGTAAATA
ATGAATTAGGGGCCAAAATGCAAAACGAAAAATGAAGCAGCTACATGTAGTTAGTAATTT
CTAGTTTGAACTGTAATTGAATATTGTGGCTTCATATGTATTATTTTATATTGAACCTGC
CCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCG
AGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTAT
CCGGTCACAATTCCACACAACATA

Sequence=11410;DNA;Homo sapiens

TGTAATACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCA
GTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTT
TTTTTTTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAA
AAAAAAAAAAAAAATTAATTTTTTTAATTTTTAAAAAAAAAAAAAAAAGAAAAAAATAAA
AATTATTTTTTTTATACAAAAAGAGAAAAAAAAAAGTTGTAAAATTTTTTTTTTAAAAAA
GGGGTGTGAAAAAAAAAAAAAAAAATTTTT

Sequence=11411;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA
ATTCGCCCTTTCCAGCGGCCGGCCCGACGGGCACTGTCCTGGGCTACATAACAACTCCAT
ATTGGCTGGCACAGTGGTTCACACCTGTAATCCCAGCATTTTGGGAGGCCGAGGCGGGCG
GAGGTCACGAGATTGAGATCACCCTGGCTAACATGGTGAAACCCCGTCTCTACTAAAAAA
ATATAAAAAATTAGCCAGGTGTGATGGCTGGCACCTGTGGTCTCAATTACTCGGGAGGCT
GAGGCAGGACAATGGTGTGAACCCATGAGGCGGAGCTTGCAGTGAGCCGAAATTGTGCCA
CTGCACTCCAACCTGGGTGACAGAGCGAGACTCCGTCTCCCTTTTTTTAAAAAAAAAAAA
AATATCCCCCCAGATTTTTTTTGGGTTTAA

Sequence=11412;DNA;Homo sapiens

TATGGCGAACTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTG
CAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTT
TTTATTTTTTTTTATTCTTTTTTTTTTTGTTATAAAAAAAAATTTTAAAAAAAAAAAAAAA
AACCCCCCCTTTTTTAAAAAAAAAACCCCCCTAAAAAAAAAAGAAACCCCCCCCGAAAAA
ACCCCCTTTTCATAAATAAGTGGGGAGGGAAAAAAAAAAAAGCCCCCCTTTTTTAAAAAA
AAAAGGCCCCCCCCCCCCCCGGGGGGGGGTTTAAAAAAAAAAAAAAAAAATTTTTTTTA
AAAAAAAAAGCCCCAAAAAATTTTTTTTTTTTAAAAAAAACCCCCCCCCGGGGGGGGGGG
GTTTTTTTTTTGAACACCCCCCCCGGGGGGGGGTTTTAAAAATTTCCCACCAAAAAGGGG
GGGGGGCGGTTTTTTTTAAACACCCCCCCGGGGGGGGGGAGAAGCCCAAAAAAAAGGTTA
AAAAAAAAACCCTTTTTTTTTAAAAAAAAAAA

Sequence=11413;DNA;Homo sapiens

CTCACTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG
ATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTCTCATGGCTTTTT

TABLE 2

1840/3461

GGTTCCAGCAGTGAGGGCATTGGTGAGATCAATGGTAAACTGTGCAAGCTTTCTTTTTAT
CATTAGGAAATGTGAAACGTTGGACAAATTTTGAGTTTTAACAAGGACAAAAAGTTGAAA
GAAAAGGCACAGTTAACAAAAAAGGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGA
GAGAGGAATGCTCTTGAAAGGTGGTCTGTGGATCTGTCTGAATAGAAAGAGCACAGTAAG
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TAAATCATGCCCCTCGTTGCCTGCCTAATCTGTGACTCCCTAAAAACTAACTGGGCCCAT
GTAGATGGGGCTGCAACCAGAGCTGAATAACATGTTAGGCTCACACATGCATCAGCACTG
CACACTGGAATCATTGCTCTTCCTGGACTTTGTAGAAATCAGTCTCAAGTGCTTCAAGAG
TCTGGCTCCTGCTACTTTTATCTGTCAGGTAGC

Sequence=11414;DNA;Homo sapiens

CTATATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTATAGAATTATGAATATACA
GTAACCTCATTGAGATTAATCATAAAATCAACACTAGATTCCAATATTAACTGTTTATAC
TGCATTTTGTTTGTTCCCGCGCACCAACTTTGTCATGCCTTAAGCAGGTTAGTTCTTTTT
ACTGTGTCTTAAANNTTTTTCCTAGTGAGTAACATGGTATTTTTTAATAATCCCGCGTAC
CTGCCCGGGCGGCCAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGA
GCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCT

Sequence=11415;DNA;Homo sapiens

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GTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCCAGCCT
GGGCAACAAGAAGACTCCATCTCAAAAAAAAAAAAAGGATTGTTGGCCTTTTTAAACCCA
TGGCCAAAGGAGTACCCCTTCAAAGTCTTTGAACTGGGGCCAAAGGTTTTTTCGGAAAAA
ATTCCACAGTCTAAAAAATAAGTTTTAAATTTATTTTAGGAAGATGATTTACCCCCTCAG
GTAAAACCAATAAAGGGGGAAAAAAAAAATGTTTAACCAAATTAAAATTTTCCGGTTGGG
TATTTATTAAAAAGGTTTGGAAAAATTCGGGTGGGGGGGTCAAGCCCTATAACCCCACCC
TTT

Sequence=11416;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTCATTTGCC
TAATTTTTGCCATTCTCATAATGTGGCAATTGTTCAATTTTGCATTTCTTCCATTTTATT
TTTTTGCATCTCTGCTTTTCTTTTGGTTAGCTTTGCCAGTTCTGCCTATTATATTAATCT
CCCAGAATCAGCTTTTAGTTTTGTTAAATCTCTGACATGTTTCGTTGATTCCTGCTTTCA
TCTTAAACATTTCTTCGTTGTTAATTTGTGTTTGCTATAAAATAAGCAACATCTTAAATG
CTTGATTTGCTTTCGATGTTTATTCTGTAATAAGATATTTAAAGATATAATTTTTTCCCT
AAATGCTTTATTAGACTTTTCTCATAAGTTTTGACTGGTACCTCGGCCGCGACCACGCTA
AGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTT
GGCGTAATCATGGTCATAGCTGTTTCCTGT

Sequence=11417;DNA;Homo sapiens

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CCCCCTTTTGAAGTCCTATATTTGTTTAGTAGACTGAAAATTTGAATTCACTGTTAAGAG
GAGACATGGAACTGTGGAAAGAATATTCATTTGAGTGTTTCAGGAAGTTTGGATTTTTTT
TTTACCAACATATTATTTGTAAAAGGAGGGAAATCAGCTGCCTCAGGAGGTTCTTAACAT
ATAGGAATGTAATTATCAGATTCAAAGCTGAACAGTAGTGCGTTGCCCTGTAACCTAAGT
CTTGGCTGTTAGCAAAGAAAAGCCAGTGTCTGGGGTATTGGTTCCAGGACCTTCCACTAA
TAACAAAATCCCAGGATGTTCCATCTCTTATATAAATGTATTTGCATATAACCTATGCAC
ATCCTCCTGTATACTTT

Sequence=11418;DNA;Homo sapiens

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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTGTGGGGGGGAGGTATAATAAAAATCCCAAAAAATGG
GGGGGGGGGAAAATAAAAAAAAATTTT

Sequence=11419;DNA;Homo sapiens

GGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCC

TABLE 2
1841/3461

CTTTCGAGCGGCCGCCCGGGCAGGTACATAAAGCATGCCAACTGCTGCTGGGAATCATCT
GTTCCAAAGAGGCCAACACTTACTCGTCTGTTTTTATTTTGCGTAAAGAATGAGTAGAGC
ATAAAACCCCTCACCATCTAGTGCCTGTTTTACCCCAAATCTTCTACATCCACTGTTCCG
AAGATTTCCACACTGATTCTGAGCAATTTATGTAAGCCCAGGTGTTCAAAGTTCCAGGTT
GAAACATTTGGTTAATTAACATCATGCTGCAAACACTCAAAATCACTTCAGCTGCCACTA
TAACAAAACAAAACTCCCAAAAACAAAAACTGTAGGGAAATATAAACAAATGGCAGTATT
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ATAACTGTGTTTCTCAAAAACAATTTTTTCTAAAGGAAATTATATTGAGTTTGAGTAAAA
ACTTGAAAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGGCG
Sequence=11420;DNA;Homo sapiens
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GCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTT
TTTTGGAGGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTAAAAATTATT
TTATTTAATTATTTTTTTAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAACTG
GAACCACAAACATCCCCCCCCCCCCCCCCAAAGAGGAGAATATTACGAACAGAGGGGGGG
CTCCCCA
Sequence=11421;DNA;Homo sapiens
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TTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTAAAATTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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AAAAAAAAACCCCCGGGGAGGGGGAATATTTTTTTTATGGGGAATAAA
Sequence=11422;DNA;Homo sapiens
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TAGCTTGAACCTTATCTTTGTAAAGCCATGCATTTACCTTGTTTATTCCTGGTTATGTTT
TTATCTCACAGCCTATTCAAAAAGATTTTGAATAATTATTTCAAAACTTTTTGCAACTTT
AATAATCTTAAATAACCTTAAAATATTTAGGTAAATACGGCATCATCTGCATGGAGGATT
TGATTCATGAGATCTATACTGTTGGAAAACGCTTCAAAGAGGCAAAT
Sequence=11423;DNA;Homo sapiens
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TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGTTTATCTCTAGT
GTCACAAACAGCTGTGCTTGTTTGAGTGAGACAACCACCATCAAGAAAAGACTCAAGGCT
GGCAGCTGTAACTAAATTTAATTTTCACCTACATTTCACAGTTTATTTATGGTGAGAAGT
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TATAAAATAGGTAGTATCCATTAATCAACCTATTGCCACCTTCTCCCTACCCGCTCTACC
TTCCCTGTGTGCAATTATTATGTCAATT
Sequence=11424;DNA;Homo sapiens
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TTTGAGGGCTCTCCCTGTCTCTTCCTGCACCTCTCTCTTGTGATCCCAGAAGCTACAACC
TCAGCCCAGATTAGCAGGCTGAGGGGTCAGGAGGCTGTCACTGGAGCTGTTGAGCTCATG
AACACGCCGAAGTTGCTGCGCTCCAGAAATGTGGAAGTTGGAATGAAGAGCCACCACTGC
TGCCACCAACATGAAGCTTGACCAAGCAAGCCAAGAAAAGATGGCCAAGAGCCTCTGCCT
TCCTTCTGCCTTCTGCAAC
Sequence=11425;DNA;Homo sapiens
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CGCCTGTGATCTCAGGATTTTAAGAGGCTGAGGCAGGCGGATCACCTGAGGTCAGGAGTG
AAACTGGCCAACACGGTGAAACCCTGTGTCTACTAAAAATACAAAAATTAGCTGGGCATG
GTGGCAGGTGCCTGTAATCCCAACTACTCGCGAGGCTGAGGCAGGAGAATTGCTTAAACC
CCGGAGGCGGATGTTGCAGTGAGCG
Sequence=11426;DNA;Homo sapiens

TABLE 2

1842/3461

CTCCTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA
TATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTATCCCAGCCCCCCAGGT
TCGCCTAATAGTCTTGGCTACTTCCCTACAGCTGCTAATCTTAGCGGTGTCCCTCCACAG
CCTGGCACGGTGGTCAGAATGCAGGGCCTGGCCTACAATACTGGAGTTAAGGAAATTCTT
AACTTCTTCCAAGGTTACCAGTATGCAACCGAGGATGGACTTATACACACAAATGACCAG
GCCAGGACTCTACCCAAAGAATGGGTTTGTATTTAAGGGCCCCAGCAGTTAGAACATCCT
CAGAAAAGAAGTGTTTGAAAGATG

Sequence=11427;DNA;Homo sapiens

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TTTTTTTTTCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAGCCCCCCAAAGGGGGA
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TTGCAAAAAAAAAAAAAAGGGGCCCCCAAAATTTTTCCCCCCCCCCCCCATTAAAAAAGGG
GGGGGGCCCCCCTTTTTAAAAAGGGGGGGGGGGTTAAAAAAAGGGGGGCCCCCGGGGGT
TTTTAAAAAAACCTTTTTAAACCCCCCCTTTTAAAAAAGGTTTTTAAAAAACCGGGGGCC
CACCCCCCCGGGGGGAAATGCCCACCCCCGGGGGGGGTTTTTTTTTGGGGTTACCATGGGG
AAAAAAAAGGGGGAAAAAAGGGG

Sequence=11428;DNA;Homo sapiens

GCGAATGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT
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AACTGAAACTACACAGCTGCTGGAAATGTATATTGGTATAACCACTTTGGAAAATGGGAA
GTTCAACAAACAGGCAAACCAATCTAGATTTAGGGATATATGTTTAGGTAGTAAAAGTAT
AAAGAAAGGAAATAGTTAGCTTTGCAGGGAGTAGTGCTTGGGAGGTAATAGGTGCTTCTG
GAGTGCTGTTGATGTTCTGTTCCTAAGTAGGGTGCTATGGCTTGAGTTTGGTTTGTCTGA
CCCTACCAAGTCTCATGTTAAAATTTCATCCCCAGTGTTGGAGGTGAGGCCTGGTGGGAA
GGGTTGTGGGAGTGGATTTCTCATGAGTGGCTTCGTATTC

Sequence=11429;DNA;Homo sapiens

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TCCTTTTGGAACACGTAGCTTCCAGCTTAAGGGTAGAGAAATATATACCTAAAATCATCA
ATACATGAAAGAAAAAGGATGGAAACTATGTCCTCAGTTTTACTTCTACCAAAACATCCC
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TTTGCATGTGTGTGTTGGGGAGTGTATGTGATCTGGGTGTTGGTAAAAAAACAAAA

Sequence=11430;DNA;Homo sapiens

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GGGGGGAAAAAACCCCCCCCCCCCAGCCTTGTCCCCCGAAAAAAAAAAAAAAAGGGGGGGGG
GGGGGGGGTTTAAAAAAGGGGGGGCCCCCCTTTTGTGGGCCCCCAAGAGGAAAAACAAAA
TTTTTCCCCCGCGGGGGGGGGTATATGAGGGGGGGATTCCCCCCCCCGGGGGGG

Sequence=11431;DNA;Homo sapiens

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TAATCAACTTAAGTCCACCTTCCATGGTGGTTCAGAAACCAGACTACCTTAACGATTTTA
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CTGGAGGCCTTCCAAGGGACCCCCAAGAACTCATGGTTGATAACCCTTTGAATCAGCTCT
CGACTCTAGCAGGGCAGTTGTCCAGTCTGCCACCCGAAAACCAAAACCCTGCATCCCCTG
ATGTAGTTCCCTGCCCTGATGAAAAGCCTTTCATGATTCAGCAGCCCTCTACCCAAGCAG
TAGTTTCTGCCGTATCAGCAAGTATTCCTCAGAGCTCCTCTCCCACAAGCCCAGAACCTC
GGCCATCCCATAGTCAAAGGAACTATAGTCCAGTGGCAGGTCCAAGCAGTGAGCCAAGTG

TABLE 2
1843/3461

CCCACA
Sequence=11432;DNA;Homo sapiens
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
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GGAAAGTTTATGCCGACGGACTGTGTCCGGCGATGGGCACGGGCATTTCTTCGTTTATAG
CTGTCTGTTTGCATTCTGATTGGGAACACTGGGATCATTTTCATCATGCCGACAGTGGTG
GTAATGGATGTATCCCTTTCCATGACCCGACCTGTGTCTATTGAGGGGTCCGAGGAATAC
CAGCGTAAGCACCTAGTAGCCCATGGTTTAACGATGCTGTTTGAGCACATGGCCACAAAT
TACAAGCTTGAATTTACAGCACTTGTGGTTTTTTTCATCACTTTGGGAGTTGATGGTCCC
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Sequence=11433;DNA;Homo sapiens
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GGAGCAAGTCTTCCTTATGCTGTTTAGAAAACTCAGTATCACAGCAGCATGATCTCCTGG
GGAAGCAGAACAGG
Sequence=11434;DNA;Homo sapiens
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CAGCATATTTAACATTATTATTGTTCATATTTCCTAATGGGGAACAGCGTTTTTCTCTTA
CATTCCAGTATTGTTTCTGCCTCTATTAATAAGGTTTCTGATAATATATATCAGTGGAGA
TATTTCTTTGGACTTATATCTTTCAGCTTTTCTTTAGATAATGGCTCTTAAATGTTGGTC
TGCAGGCAGGTGATAGGCAATGATATGAAAATCATATGGGGGACTTATTAAGAATATAGA
TCAGCAGGGCCCATCTCTCCATATGCTGATTGAGTAGTACCTCGGCCGCGACCACGCTAA
GGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTG
GCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACAC
AACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTC
ACATTAATTGCG
Sequence=11435;DNA;Homo sapiens
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CCTGCCCGGGCGGCCGTTCGAAAGGGCGAATTCCAGCACACT
Sequence=11436;DNA;Homo sapiens
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AAGGCATTAAGTATTTTTGACAATGTGACTTAATGGTTATATGACATTTCATTAATTTAT
TTAACCATATGTCTACTGACTATATGTGGTTAATTTTATAATCAGGCTCTGTGATGAAAT
TGTTATACACACATCTTTATGTAACATCTC
Sequence=11437;DNA;Homo sapiens
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TABLE 2
1844/3461

TTTTTTGAGACATTGTCTGGTTCTGTCACCTAGGCTGGAGTGCAGTGGCATGATCTTGGC
TCACTGCAACCTCCACCTCCTGGGCTCAAGCCATCTTCCCACCTCAGCCTCCCAAGTAGC
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GGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCCCT
Sequence=11438;DNA;Homo sapiens
TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC
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ACCACCATCCTCAGGGCATCTCCGGCACCTTGGGGTCGGGTAAGTGCTCTCTACTGCCCT
CGTTTTAGCTGCCTTTATCTCGTCTATATGGCACTTTCTGCGTGAAAAGACATTTGCCTT
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CTCAGAAATGACCTCCTCTCCCAACCACTTCAACGATTCTTTCTTTGGGTTTGGGGTTCT
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ACCAAGTAGACAAAACAAGTTCCCCTAGGCAGGGGTGTCCAATATT
Sequence=11439;DNA;Homo sapiens
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TCTGAAAAGATCCAGTCCTAAAACAGGATTCTTCGATCATTCATGGC
Sequence=11440;DNA;Homo sapiens
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TGAAATTGAGCTTGTTTTTAAGAAATAATTTGACAATGTATAAGATCCGAGGAGATTGTG
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CCACAAATGTCTCACGAGATAAAAATTTTTATGTCATTTTCTGTAAAATAGGACAAACTA
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GTATATTGTAATCACATTAACTTATCTCTGTATATCATGAAAGAGATTT
Sequence=11441;DNA;Homo sapiens
ATAGGGCGAATGGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCT
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Sequence=11442;DNA;Homo sapiens
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GCTCTGCCTCGGTGGCAGGAGCCCGGGAAGGAGATTATATTGTCTCCATTCAGCTTGTGG
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CCACATACTCCGTGGGAATGCAGAAAACGTACCTCGGCCGCGACCACGCTAAGGGCGAAT
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TABLE 2

1845/3461

Sequence=11443;DNA;Homo sapiens
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Sequence=11444;DNA;Homo sapiens
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TABLE 2
1846/3461

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TA
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Sequence=11450;DNA;Homo sapiens
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TABLE 2
1847/3461

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Sequence=11455;DNA;Homo sapiens
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TABLE 2
1848/3461

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TABLE 2
1849/3461

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TABLE 2
1850/3461

AAAATTTTTTTAAAAA
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Sequence=11471;DNA;Homo sapiens
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GCGACAAAGACTTGAAAAAGGTGGAGAAGCAAACCTTGTGGGTATTTAGGGTAGCAGTAG
TCCAGGCAAGGGGAACAACTAGTGCAAAGGCTCTAGGAGGCAATGTGTTTGAAGTGTTTT
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AAGGTGAGATCAAAGAGGTAATGAGGCCATTG
Sequence=11473;DNA;Homo sapiens
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CGAGACTCCAAGAGAGAAAGAGGATCACTGCACACACCCCATTTTCATGAAGCCCCTCTG
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TABLE 2

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TABLE 2
1852/3461

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TABLE 2
1853/3461

Sequence=11488;DNA;Homo sapiens
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GGGTCCCAGTCTACTTCCCTATTCCTGAGCCTGACGGTTGTAAATGTGGAATCAACTGCC
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GCTGGGAGATCCCAGTAGAGATCAAAGGCTAGGCTGCTTGGTGCCCTGTGTCTGTGCAGG
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Sequence=11489;DNA;Homo sapiens
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TABLE 2
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Sequence=11494;DNA;Homo sapiens
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TABLE 2
1855/3461

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Sequence=11504;DNA;Homo sapiens
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TABLE 2

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Sequence=11505;DNA;Homo sapiens

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Sequence=11506;DNA;Homo sapiens

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Sequence=11507;DNA;Homo sapiens

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TABLE 2
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Sequence=11517;DNA;Homo sapiens

TABLE 2
1858/3461

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TABLE 2
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TABLE 2
1860/3461

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TABLE 2
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Sequence=11538;DNA;Homo sapiens
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GCGCAATCTTGGCTCACTGCAACCTGTGCCTCCCAGGTTCAAGCAATTCTCCTGCCTCAG
CCTCCTGAGTAGCTGGGATTACAGGCATGAGCCACCATGCTCAGCTAATTTTTGTATTTT
TAATGGAGGTGGGGTTTCACTATGTTCGCCAGGTTGGTCTCGAACTCCTGACCTCAAGTG
ATCCACCTGCCTCGGACTCCCAAAGTGCCAGGATTACAGGTGTGAACCACCGAGCCCGGG
TAGAACTAATATTTTAAAGCTATCTCCTTTATTCAAATTTGGGGAGGAATATTATTTTTG
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Sequence=11539;DNA;Homo sapiens
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CCACGAGGCGGAGGAGGTTTAAAACAACAGAAACAGGCATGTGGGGAAAACCATAGGTTC
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GGGTTAATATATTCCCCCCCACAAACCCCAAAAAAAAAACCCCCCCTAAAAAAAAAAAAA
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TABLE 2

1862/3461

GAAAAAACAAACCCTTTTTTTCCAAAAAAAAAAAAATATTAAAAAAATATCTCCCACCCCCC
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ATAACCCCGAGAAAT

Sequence=11541;DNA;Homo sapiens

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GGGGGGCTTATTAAAATATTTTTGCCCTGAGAAGACTTTTTTTCAAAAAAACCCCCCCAA
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Sequence=11542;DNA;Homo sapiens

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GGTCTTGGGAGCTCTGTGTCAGGAATCAG

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TABLE 2
1863/3461

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Sequence=11549;DNA;Homo sapiens
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TABLE 2
1864/3461

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GGG

Sequence=11554;DNA;Homo sapiens
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Sequence=11555;DNA;Homo sapiens
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TTGGGCC

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TABLE 2
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TABLE 2
1866/3461

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Sequence=11564;DNA;Homo sapiens
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Sequence=11569;DNA;Homo sapiens
CCCTCTAGATGCATGCTCGAGCGGTCGACAGTGTGATGGATATCTGCAGAATTCGCCCTT
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TCACTCTTGTTGCCCATGCTGGAGTGCAATGGTGCAATCTCAGCTCACCGCAACCTCCAC
CTCCCTGGTTCAAGTGATTCTCCTGCTTCAGCCTCCCGAGTAACTGGGATCACAGGCATG
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TABLE 2
1867/3461

AGGCTGGTCTCGAACTCCCAACTTCAGGTGATTCACCCACCTCAACTTCCCAAAGTGCTG
GGATTACAGGCATGAGCCCCCCAACACAGCCTCTCTCCTATTTTAACACTTGGTTGGTCA
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GGGGAATGGGAGAATGCCATGAAAACATGCCCATGTTAAAGTTAACTAACAACACAGGAC
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Sequence=11570;DNA;Homo sapiens
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TGCAGACATTCACATATAGCTACAAGAATTAAGAATAATCAGGGAAAGAAGATTTCACCA
AACAGACAAAACAAGTGGCCAGTGACTGAACCTGAAGAGATCTAGAAGATGAACTACCTA
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GATCAAGTAGAA

Sequence=11571;DNA;Homo sapiens
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TCTCTATAGGTGTGCAAGCATTTCCTGGAAGCTATTGAAAACAACAAGTATGGCTGGTTT
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GTGAAATTCTAATACTTACCACTTGNGGGCAATAGCCTTTTATGAAAAAAAAAAAAAAAA
AAAAAAAAAAA

Sequence=11572;DNA;Homo sapiens
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Sequence=11574;DNA;Homo sapiens
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CGACTATAGAGCTCCCTTCTCTGTTCTCGCAGATAGGCGCTCATACTGATGGCATGGGAG
GACGATTCGAACTTGAAAAGAGAATTTTTTGGCCTTTGAGGTTTCTTCTTGGCAAAAAAG
GCTGCAAACTCTCGTCCAGTGCTGGCATAGCTTAGTTGAGCTGATGGTTCAGAGGCCGTA
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TABLE 2
1868/3461

TATCCGCTCACATTTCCACACAACATACGAGCCGG
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GCTTTTGTTGCTTCATTCTTTCCTTGCTCTGTTTGTGCGGTTTTTTTTTTTTTTTGAAG
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Sequence=11578;DNA;Homo sapiens
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TABLE 2
1869/3461

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Sequence=11583;DNA;Homo sapiens
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Sequence=11587;DNA;Homo sapiens

TABLE 2

1870/3461

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Sequence=11588;DNA;Homo sapiens

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Sequence=11589;DNA;Homo sapiens

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TTAGAAAATAATATAGCTGTCACCTTATCCTCATCTACTACTTCCTAATGTATACTTAAG
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ATAATAATACAAA

Sequence=11590;DNA;Homo sapiens

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TTTGGAAATTT

Sequence=11591;DNA;Homo sapiens

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Sequence=11593;DNA;Homo sapiens

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TABLE 2
1871/3461

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Sequence=11594;DNA;Homo sapiens
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Sequence=11596;DNA;Homo sapiens
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TABLE 2

1872/3461

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Sequence=11600;DNA;Homo sapiens
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Sequence=11602;DNA;Homo sapiens
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ATTCTTGTTTTCTAAATTATCTTTTTTTCTTTCGTTTGGTCTTGGGCATTTTTATTCCTT
CCTTTCCACATCTGCTGTGCTTGGTCCCCCGATGTTTAGACTTTGATTTTTCTTGGTTTG
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Sequence=11603;DNA;Homo sapiens
TATATGGCGAATTGCGCCCTCTAGATGCTTGCTCGAGCGGCCGCCAGTGTGATGGATATC
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TTTTGCTTTCTTGAATGACTTTTTCTGTGAGATGAATTTTTGATAAGAACTGGGAAAACA
TGTCTTTTAGGTGTCTTGCCGATGACTATCCATAGGAGGAATGGCTATCCCAAAAAAAGT
TCCGCAAAAAAGTAGATGAGTTTCTTTTTTTTTAAGCACTAAAGAACAAAATGCATTTTTC
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GAGTAAATTCTTAAGCATTTGTCCTAGAGGTGAAAGCAGCTGAATGTTTCTGAACCATCA
AGAGGCAAACAAACAGGAGTTTGTTTCTTGAACCTGCTTATGCACACAGCTCTTAACTCC
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TGTCATGGAGGCTTAATAGACAACAGAATAAATGCATTTCTTGGGCCTCTTATAAACTTG
GGAATTCTTAGAAAGCTGCTTCTATTACCAGGCTGTAATAGCTGGTATAGNTTTTTTTTT
TCT
Sequence=11604;DNA;Homo sapiens
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Sequence=11605;DNA;Homo sapiens
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GAGGGGCGTGTGTGATTACCAGAGGGAATCGGTGTTACATCCTCTAGGATTCCCTCCAGG
AAACCTCCTACCTACCTGTTACAGGTAAGGACCTTAGGTGTATTCTTAGATGGGGGTTCT
CAAACCTTCATGTGTGTATGAATTACTGGGGAGCCAGTGAAAATACAGATTAAAATTCTG
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TABLE 2
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Sequence=11606;DNA;Homo sapiens
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CCATATAACACCCCACCCCCATTCGCTTCCTGTATGGTGATATCATATGTAACATTTACT
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Sequence=11607;DNA;Homo sapiens
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Sequence=11608;DNA;Homo sapiens
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Sequence=11609;DNA;Homo sapiens
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Sequence=11610;DNA;Homo sapiens
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TTCCACACATTTATTATAATTGTGAAGTCTCT
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Sequence=11612;DNA;Homo sapiens
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TABLE 2
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TTTATAGTTCTGAGGGTCAGTAACCTAAAACTGATCTTATGAAATAAAGTTAAATCTTGG
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TGCCTTTTCTCCTTCTAGGGAGCCTGCATTCCCTGCCTCCTAGTGGCTTCCTCCCATCAC
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TATGAGGACGCTTCTGATTGCTAAGATACATACGGTGACACTATGGAAGTTAACTTGAAG
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Sequence=11613;DNA;Homo sapiens
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CGTTAGTGTGGGGCACAAACGTGGAATATTAGGAGAGAGCTGGTTCCAGCACCAAATCCA
GAGTCACTCGGGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATGTTCAATTCTGCTC
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Sequence=11614;DNA;Homo sapiens
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TTCCCAGTAGAAAGGAT
Sequence=11615;DNA;Homo sapiens
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Sequence=11616;DNA;Homo sapiens
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AGCACACTGGC
Sequence=11617;DNA;Homo sapiens .
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Sequence=11618;DNA;Homo sapiens
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TABLE 2

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GCAAACTTTTAAAAGTCAAATCTCCTGGTTCACAGGAAAGGAAATACAAATCAGTCAAGG
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GATGAGTTTTTGTGAAAACAGGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAG
CACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGT
CATAGCTGTTTCCTGTGTGAAA

Sequence=11619;DNA;Homo sapiens

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TTCATGTCAAAATTGAGAAGTGCCCTAATTGAATGTGTTTGAATGTTATCCTTGCACAAT
TCTTTAAATTGAAAGATAAAATGTTTTA

Sequence=11620;DNA;Homo sapiens

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TAGTAGAGACGAGGTCTTGCTATGTTGCCCAGTTCTAGTCTTGAACTCTTGAGCTCAAGC
AGTCCTCCAGCCCTGGCCTCTGACAGTGCTGGGATTA

Sequence=11621;DNA;Homo sapiens

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ATTAAATGGTAAGGTAACATGGCTCTTGGAGGATGAGATAACTCATTTTTTGAGGGAAAA
ATTAGTATATTTCATTAGTCAGGCAAGATACAGCTAAGGAGTTGTGTGATCACACTAATG
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Sequence=11622;DNA;Homo sapiens

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GAGACAT

Sequence=11623;DNA;Homo sapiens

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GGCTCATGCTGTAGATCAAAAGCTTGCAGAGAAGCAGGAAGATGAAGCCACCCTGGAAAA
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GTGTATGTGGTATGAATCCAGTAACAAGATCTATGGCCGATCAAACAACCCATATGATTT
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AGTTATTGGTGTGGGCTCTGAT

Sequence=11624;DNA;Homo sapiens

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Sequence=11625;DNA;Homo sapiens

TABLE 2
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GGCGAATCGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGCCAGTCTCACTAAGCATAAATCTCA
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TGCCTGTAGGTTGTAACTCTTTTTTTGAGACAGAGTCTCTCTCTTGTTGCCCAGGCTGGA
GTGCAGTGGTGCAATCTCAGCTCACTGCAAACTTGACGTCCCAGGTTCAAGCGATTCTTC
TGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCATGTGCCACCACACCCAGCTTATTTC
TGTATTTTTAGTAGAGACAGGGTTTCACCATGTTGGTCAGGCTGGTCTCAAACTCCTGGC
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Sequence=11626;DNA;Homo sapiens
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AAACATGGAGCCAAGACAAAGATGACTGAAAGAACTTTAGCTAAAATCTTCCAGTTACAT
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AACTTAGTTTCACAGCTTTGCCTCTTCTTTTTGATG

Sequence=11627;DNA;Homo sapiens
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Sequence=11628;DNA;Homo sapiens
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Sequence=11629;DNA;Homo sapiens
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Sequence=11631;DNA;Homo sapiens
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TABLE 2
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ATGAGTTCTTTGCCAATGCGGCCAAAACATTGTGGACAGTCAAAGATCTCCTCCCTTGGA
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Sequence=11632;DNA;Homo sapiens
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Sequence=11633;DNA;Homo sapiens
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TABLE 2
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TABLE 2
1879/3461

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TABLE 2
1880/3461

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Sequence=11651;DNA;Homo sapiens
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TABLE 2
1881/3461

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TABLE 2
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TABLE 2
1883/3461

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Sequence=11672;DNA;Homo sapiens
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Sequence=11674;DNA;Homo sapiens
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TABLE 2
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Sequence=11675;DNA;Homo sapiens
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TABLE 2

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TABLE 2

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Sequence=11687;DNA;Homo sapiens

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Sequence=11688;DNA;Homo sapiens

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Sequence=11689;DNA;Homo sapiens

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Sequence=11690;DNA;Homo sapiens

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TABLE 2
1887/3461

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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
1891/3461

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TABLE 2
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TABLE 2
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TABLE 2
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Sequence=11744;DNA;Homo sapiens
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AAACTTGTCTATGATAGGCAATTCCTAGGGATTTACATCTTGGTTCTAGACCTTAACTGA
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TGAGAAATGTTTAGGAGAGGGGACATAGCCATTTTTGTATGAAGACCAATTCAAGAAAAA
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Sequence=11746;DNA;Homo sapiens
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AGCTCGCTTTCCGGACTGGGAAGTTACTAAAGGGTGGAGAGCCCGACTTGCAGACTGTGG
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Sequence=11747;DNA;Homo sapiens
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TABLE 2
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Sequence=11751;DNA;Homo sapiens
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Sequence=11752;DNA;Homo sapiens
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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GGGCGAATTGGGCCCTCTAGAGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAA
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CTGAGAAGGTTGCACAACAACTGTGCCCGGCAGTCTAGAGGCGCANGAAGAGGAAAGCCA
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Sequence=11817;DNA;Homo sapiens
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CTTCTTGTTTCAGTTCTCAATACTCTCAACAGTGTTCTTTTCATGGTCTATTAATGCCAC
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AGTGCTGAAGTGCCGTCTAGTGTTCCTAAGTGCAAGAAAGCTGTTATGTGTCTCACAGAG
AAAATACATGTGTTAGATAAACTCAGTTCAGGCATGGGTTTGACCGCTATTGACCATAAG
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AAAATGTGACATGAGACTCACAGGAACTAACC
Sequence=11818;DNA;Homo sapiens
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TGCGCCATTCCAGCTCCCACGAGCCACTGCCCAAGAACCTACTCCTGGAAAATTCTGAGC
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GCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGAGCTCGGTACCAA
GCTTGGCGTAATCATGGTCATAGCTGTTTCCTGACAA
Sequence=11819;DNA;Homo sapiens
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ATTTTTTGTATTTTTAATAGAGACAGAGTTTCACCACGTTGGCCAGGCCGGTCTCAAACT
CCTGACCTCAAGTGATCTGCCTGCCTGGGCCTCCCAAAGTGCTGGGACTACAGGCATAAG
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CATGAACTGTAGAGCTTCCTATGGAGAGCATTTGTGGTAGCCACGCAAATCCTTTAGTAA
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CCTCTCCAGCCAGCTCCCTGGAGTCGTGTGTCCTGGCGGTGTCCCTGCAAGAACTGGTTC
TGCCAGCCTGCTCAATTTTGGTCCTGCTGTTTTTGATGAGCCTTTTGTCTGTTTCTCCTT
CCACCCTGCTGGCTGGGCGGATGCACTCAACATCACCCCTTCCTGGGTGGCATGTCTCTC
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TABLE 2
1907/3461

AGCCAAGCCAGTGACCTTGCTCTGGTGGCACTGTGGGAGACACCACTTGTCTT
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Sequence=11824;DNA;Homo sapiens
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AACAATCCATTTTTTTTCTTCTCTTTTCCTCTCATTTATTCTCATACCCTAAAAAAAAAT
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TABLE 2
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AAAACAGAATTTCCCCACTTTAGCCACTCTATTCTCTAACCCCTTACT
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Sequence=11836;DNA;Homo sapiens

TABLE 2
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Sequence=11837;DNA;Homo sapiens
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Sequence=11838;DNA;Homo sapiens
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TABLE 2
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TABLE 2
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CTGCTCCAACCTTTTTGTCTAAGCCGTAAGCAATAGCAGCAGCAGTTGGCTCATTAATAA
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Sequence=11849;DNA;Homo sapiens
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Sequence=11850;DNA;Homo sapiens
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Sequence=11852;DNA;Homo sapiens
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Sequence=11853;DNA;Homo sapiens
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GATTTGATGTAGTATTACGCGAACAACTACCAAAATAGTAAACATTGCTGAAGCCCATTC
AATAATGGAGTGCTCTTCGGGTGCTGAATTTAAGCGGGCATTTTAAGGTTCTGTGGCTCC
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GTGCAAGAGTAAACACTAGAGCTTGAGTTGTTATCCAGCTGGCAAGCACGGAAGTCTTTG
AAGAATGTAATGTAAAAAGGGAAAAGAATGTAAAGCTTTTTGTACCTCGGCCGCGACCAC
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GCTTGGCGTAATCATGGTCATAG
Sequence=11854;DNA;Homo sapiens
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GGACAACACCGGGACACCCGCGAGGCCGGAAAATGGACTCAGTGGCTTTTGAGGATGTGT
CTGTGAGCTTCAGCCAGGAGGAGTGGGCTCTGCTGGCTCCTTTCCAGAAGAAACTCTACA
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CGAATGTTGAAGATCAACACAAAAACCAAGGACGAAATCTAAGAAGCCATACGGGAGAGA
GACTCTGTGAAGGTAAAGAAGGTAGTCAATGTGCAGAAAACTTCAATCCCAATCTCAGTG
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Sequence=11855;DNA;Homo sapiens
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TABLE 2
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TAGCATCTATTTAGAATGGGAAAGCATGTTTGTATGAAAACAAATATTTCATCATCACTT
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Sequence=11856;DNA;Homo sapiens
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TCGGCCGCGACCACGCTAAGGGCGAATT
Sequence=11857;DNA;Homo sapiens
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AAAAAAAAAAAG
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TABLE 2
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AGCAACATACTATAGAAAACACCTGCTACTCAAAACACAACTTCTCAGTGTCATCCATTG
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GGCCCTGGTTCAGGGTTCAATTCCCGGCTTAGGGAATGATACTTAATCTTCTGTCTGTCT
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TTCAC

Sequence=11863;DNA;Homo sapiens
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CATTTGGTATTACTACTATTTTTTATCTTAACCATTCACATAGATGTGTGTAATGATACC
ACATGTGGTTTTAATTTGCATTTCCAATGGCTAATGATGTTGAGTATCTTTTTGTGTGCT
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TTT

Sequence=11864;DNA;Homo sapiens
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CTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCGCCCAGCCATCAAAATG
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Sequence=11865;DNA;Homo sapiens
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Sequence=11866;DNA;Homo sapiens
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TCCAACTGTCAGTATTACCATGAAATCAACATTAGAAAATAAGGTAGAAAACTGAGTGTT
TTGCTTAAAAAATAAAAAAGGATTAAATAGCTGTTGTATCCAAACATCACGTTCTGCTTC
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Sequence=11867;DNA;Homo sapiens
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TABLE 2
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Sequence=11869;DNA;Homo sapiens
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TABLE 2

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CATGGTAGCATGCGCCTATAGTCCCAGCTGCTCAGGAGGCTGAGGCATGAGAATCGCTTG
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Sequence=11874;DNA;Homo sapiens
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TCGAGCTGCTCTGCAGGAGTCCCGACCTCTACATGTTGTGCTGGGAAATGAAGCCCGTGA
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TGAGGAAGTCTTTGTGCCAGTTTTAAATATAAAACGTTCTGAACTACCTCTGCGAGGTGA
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GATTG

Sequence=11875;DNA;Homo sapiens
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CGGAATAATAT

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TABLE 2

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TGTTAGCAGCTATAATCAAACAAGTTCTGAAACAAGTATGGTTTTATTAGAAAAAAGTAC
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Sequence=11880;DNA;Homo sapiens

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Sequence=11881;DNA;Homo sapiens

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Sequence=11883;DNA;Homo sapiens

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Sequence=11885;DNA;Homo sapiens

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TABLE 2
1917/3461

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Sequence=11920;DNA;Homo sapiens
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TABLE 2
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TTTTTATAAATGTTGTGGGGTTGTTTTTTTTACTTGGATTTGGGAACTTCTTAATTTTAAC
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TABLE 2
1924/3461

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TABLE 2
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TABLE 2
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TABLE 2
1927/3461

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TABLE 2

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TTAAGCTACCTTCATTAAGCAGCATGACCGCTTCCTGAGCTCCTGCTGCCGCATTTAGGC
CCTGTCAGCTGTGAGGCCACTGGTGCTGAGTCAGAGGGAAAAGCTCAGAACAGCCTTGAG
CAGCGAAGAATAAAGCGTGACTCATCTCGTCCTGCCCACCCCTCACACTGGACTATAAAT
ACCCTCCCTGGGTCTGTGTGCTGNTATTCCAAACGATGCGATGAATACC

Sequence=11951;DNA;Homo sapiens

GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCCCTCACTGGGAGCTTCCCCA
TCCTCCCTGCCTTCCCCAGTGGGAAGTTAGGGAAGCTCATGAGCCTGGGACCCCGCATGT
CCCAAAATGGGATTGGAGAAGCTGGAGAGAAAGCAGAAGAGGCCGAGGAGTGAGGCAGCA
GCCTCTATGCTTGATTTCCACACCGGGTCCGTGCAGAGGAAACAGAAACTCCCAACTGTC
CTTACCCACCGACATCACAGCCCCTATGAAGAAAGTAGCCACAATCTCAAATAACAAAAG
GGAATGTTCTAAAACTTTGTCTTCCTTATAAAATGGAGAAAATTGCACTTGTGCTTGCTG
TGTGGTATATAAACCAGGATTAGTCCCAGGGTCGTGAGGTTTCTGGTGAAAAGGTTAAAT
CGTAGAAGCTAGTATATTTTTTATATT

Sequence=11952;DNA;Homo sapiens

TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC
TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTAAAAAAAATTTTTTAAAAAAATTTTATAAAACGCTTTTTT

Sequence=11953;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAATACATTTGTA
GGATAGAGTGCTAGAAGTGAAACTGCTGAGTCAAGACGTGCATTTTAGATTATGATAGAT
ATCACCACATTGCTCTTTTCTGAAGTCGTTAAGAATTTACACTCCCATCAAAAAAGTATG
AGTCTTGCTTAGAGTAGGATGTCAAGTGCTGACTGATCAATGTGGAAAATGAACTAGAAT
AAAAAAAATACAAATTTTGCAACCATCACAGTAAACATTAGTCCAGGCAAGCACCGTCAA
TGGATATTTGATCTAAGGGGAGAGACTTCAGTCAGTAGGATATTTTTATGGTCTTAAAGT
GTATCCCAAGATTGCTTAAATACAAAGGGAAAAAAACAGTAACCATATGGTAATAAGACA
AAATCTTCATGGATTGATCAAAATAATATCGCCATTGAAAGACAGACAGTGTACATGTGG
TTAGCAGGAGTTTAGGATGAGAGAAATTTAGTGGACCGAGAAATAGTCTAAATATCAGTT
TTAATTTGTGAAAGAAA

Sequence=11954;DNA;Homo sapiens

ACACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT
GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATATAAAATAATAC
ATATGAAGCCACAATATTCAATTACAGTTCAAACTATAAATTACTAACTACATGTAGCTG
CTTCATTTTTCGTTTTGCATTTTGGCCCCTAATTTAATTATTTACAACTGATACCTGCTG
AGAAAAAGATCCAAACTTTTAAACTTTGTATGTTTTGTGGAGGGTGCACAATTTCTTCTA
ATTTATCTTCAAGTGTTTTAAAATTTAATTTGTTTTTAATCATAAGATATCATCATGGCC
AAGAGACTGGGAAAATAACAATTTTATTCTTTCTCCTAAGATTGGGATTTTATTATTCCA
AGATCTTATGCTTGAATTACTTAACAAGAAGGCATGATTATTCAGA

Sequence=11955;DNA;Homo sapiens

GCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA

TABLE 2
1929/3461

ATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGTATTAATATTACGTTGGTTCAAAA
GTAATTGTGGGTTTTGCCATTACTTTTAATTGGCATTTAATGGCATTTGCCATTACTTTT
AATAGGTGTTTAATATTGGCAATATCTTAATTGGCATTAATATTACATTGGTGCAAAAGT
AATTGTGGGTTTTGCCATTACTTTTAATGCCATTGCGGGTCTTGCCATTACTTTTAATTG
GCATTTAATGGCATTTGCTAGTACGCGGGGAGAAAAGCTTTATAAGTTCAAGGGCTGTAA
AATATGAACTACTTANGGTCCGTTGCCTTTCATGGGAACTCGGCTAGACTTAGAAAAAGC
TGTTTGTTGTGCTAATGTAAAAGTGTCATACAGTTTAGAAAGATTTTGAAGATGGTAAAC
TT

Sequence=11956;DNA;Homo sapiens
ATAGGGCGCTATGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCG
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTTTTTTTTTTTTTTTTTGATAGAC
TGGGTTATTTTATTTATTTTTGAGACAGTGTCTCTCTCTGTTGCATAGGCTGGAGTGTAG
TGGCATAATCACAGCTCACTGCAGCCCCGACCTCCCAGGCTCAAGCGATCCTCCCACCTC
AGTCTCTTGAGTAGCTGGGACTTCAGGTGTGCACCAACATGCCTGGCTAATTTTTGTATT
TTTTGTTTTTGGAGAGATGGGGTTTCACCATGCTACCCAAGCTGGTCTCAAACTCCTGGG
CTCAAGCAATCTACCTGCCTCGGCCTCCCAAAGTGCTAGGATTATAGGCTTGAGCCACCG
TGCCCGGCCCAAAATGGAAATTTTTAGGAAGTTAGGTTTTGCTTGTGAAAGTGATCATAC
GCTGTCCTACCACTATCATTTTACTGTGGGTGCTGGAAAAGAAGAAATAAGATTTGCTCC
TTAATAAATAACCTTGGTGTTATTGGCTTTAAAATGAAAATTTTCCTTAAAAACCTTAAA
AAT

Sequence=11957;DNA;Homo sapiens
CTATATGGCGAATTGAGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT
CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTATTTTTTTTTTGGATT
TTTTTTTACTTCCGGTAGCACATTGACACAGGGGATCTTGTTATGGTATTGCTGACAAAA
ATTAAAAATGTGAAGGTTGAAAATACTATAGGTGTAATGCCCAAGTTTACATAAAATACC
AGTGAAGTTCCTATTGATAGTGAATCTTGGGTCTGTCTTCTAATTCAAGGAAGGCAACCA
ATTAAAACTTCATTTACTTTGCCAAAAAGGTAACACAGAATCACTTCAGAAACATAAGAT
TCTTGGCACAGGTAAAAGAATATGATGATCTAAAATTCATTTCTAAATTTTTGCTTCTAG
CCCCTGGCCTACCAGCTCAAGGTTGTTCCCAGCAACATAGACTAAAGTGTCTNTGTTCAT
TTATTTATTGGGTGGTTTGTTCATTCATTCAGTCACTCACCAGTCTGCTTTTAAAGTTTA
CAATGGATGAAAGTTACCTTTTCAAGTTCATTGACATG

Sequence=11958;DNA;Homo sapiens
CTATAGGGCGAATCGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCACTGTGATGGATAT
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACATGCATGCTAGACATTGAGAT
GTTATAAATTAACTGTAAATATTATTGAGATTGTCAATATTTCTGGGAAAAAAATGTATT
GGGATAATGCTGCATATCATATTCTGTCAGAAAAGATCTATACTTAAAGGCAAAGATTGG
GGGATGTTAGTTTTCCTAAGTAGGGAGGGTAGAATTGGGAAGGGGTAGTAAAATGATAGG
TTGCTCTTTACATAAATAAAAAGGTTTTTTATTTAAAAAAAAAAAAAAGTCTTTTCTCTC
TGATTTAGGCTTGACCAAAGCTAACGCCAGACTTCTATGCTAAAAGCAATATGAGGTATA
TGTTAATTAGTTTGAGCATCATAACATCAATAAACAATTAATATTCTGTAACCCAATTAG
CCTCTGCTTCCTCTAAGTTAAAGAGAGGTCACAGAGGGAAAAAATAATTTTATAAAAATC
TAATATAACTAATCAGGAAGGAAGGAGAAACAAA

Sequence=11959;DNA;Homo sapiens
GACGGATATGTGCAGAATTCGCCCTAACGAGCGGCCGCCCGGGCAGGTACTGAAATCAAG
GAGGAGGTTAAGACTTTTTATTTATACCACTTTGTAAATTATTATTTCTGAGTATGGGCT
GAAACTAAACTCCAGCTGGAGTCTATCTCTATAGTTCCAAGCCTCCCGGAATGAAACTTT
TTAAATATTATCTTGGCTGGGGTGCTGTGAGGAGTAACTAAGACAGTGCCTCTGGGTGAC
ACACAGCTTTAACTGCAACCTCAAAAATTCCATTACTCCCATGGCGATGAGCGGAGGGGA
GAATTACGAACTGCTATTTATGGCTTCTTTTAAATAGTTTATTTCAATCACAAAAGTTAC
AGTTTTATAAAGGCAGGGGAAGAAGGAGAAAAGAATGAATTAAAGAAAGATCACACACTC
TAAAAAGCCTGAGCTAACTCTGAGAAAGGGTTAAGTAAGATTTCAGACTCTTCACATTTT
ATGAAGCCTATAAT

Sequence=11960;DNA;Homo sapiens
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ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTATTGACCCAGCGATGG

TABLE 2

1930/3461

GGGCTTCGACATGGGCTNTAGGGAGTCATAAGTGGAGTCCGTAAAGAGGTATCTNTACTA
TAAAGCTATTGTGTAAGCTAGTCATATTAAGTTGTTGGCTCAAGAGTNTGATAGTTCTTG
TGCAGTGAGAGTGAGTAGTAGAATGTTTAGTGAGCCTAGGGTGTTGTGAGTGTAAATCAG
TGCGATGAGTATGGGAAGGGAGCCTACTAGGGTGTAGAATAGGAAGTATGTGCCTGCGTT
CAGGCGTTCTGGCTGGGTGCCTCATCGGGTGATGATAGCCAAGGTGGGGATAAGTGTGGT
TTCTAAGAAGATATAAAATATGATTAGTTCTGTGGTTGTGAATGTTATAATTAAGGAGAT
TTGTAGGGAGATTAGTATAGAAAGGTAGAGTTTTTTTCGTGATAATGGTTCACTGGATAA
GTGGGCGTTGGCTTGCCATGATTGTG

Sequence=11961;DNA;Homo sapiens
CATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGC
GGCCGAGGAACAACGTCTAGAATCTAGCCGACAGGACCCCATCGTGGACTGGCTTTCCAA
CTGGCATTGGCGTTGGCCATGGTGGGTGTGGTTCTTGTTACTTGTGCTTCTGATTCTCCT
CAGCTTACCCTGATTCTGAAACCTCTACCAATTATGTATTTCCCATTTATCTGCAAGGGT
ATTTTACTAAAACTGGGTATGAAATTGATGCCAAATATGGAAGAAAAGTTAAATATTAAA
TATGAACTTCATTGAATGTATACACAAACAAATGGTCACCAAGTTCCATAACAAGTTGTG
TGAGCCCCTTGAGGCATTCATACAGTGCTGTTTCTGGGAAATCTCTATTTCAAATAGATT
GAAATAGTTATTGGAATACAAACAGACTAATCGCAAATATGAGTTTGACCTCTATTGTGG
TTTCCTTGAAG

Sequence=11962;DNA;Homo sapiens
GCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGA
ATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAAATGGACTAAGACAAGGGGGAAGAA
ATTTGCATTCCTGATCTTCCCAACTTCTTCAAATTCACAACACTTGAATGACAGTCTTAT
TTCAGCACTTACTGCTATCACCTATTACTTTTATGTGTGTCTTACCTATTTGAGATGCCA
GATTCCTTGGAAGTAGAGACCGTGTCTGAATCATCATTGTATTAAGCCACTCATCCTTAA
CAAATGCCCAAGCCATGGTTAAAGTTCAATAAATACTTTGTTGAATTTATTAATAAAATG
GCAGAAATGTCATTCTCTTCCATATATGTTTAATAAATCCCTGATAGGTGCTAAGCACTG
CACTAGGTAAAAATTCTCTTCTGATGCTGTCTTTTTGGCCAACCATTTTTTTATCATTTA
TTCATTAGCTGACATTTGCTAAATGCTTTGGAGGGGTCAAAAGGGGAAGTAATGAGAAAT

Sequence=11963;DNA;Homo sapiens
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TTTTTTTGGGAGTTTGATTATTGAATGTCTTGAAGTAGTCTTAATGTGTTAAATCCACTT
GGTGTTCTATTACTTTCTTAAACTTGAATATTGATAACTTTCTTTAGGTTTCAAAAGTTC
ACTGTTATTATTTCTTTGAATAGACTTTTACCCCAACCTCTTGCTATACCTCCTCTTTTA
GACCAGTAATGATTAGATTTTTTTGAGGCCTTTTTTCTAGATCTTGTTGGTTTACTTCATT
CTTTTTCATCCTTTTTTTCTTTTGCTTTCTCTTACTGTGCATTTTCAGT

Sequence=11964;DNA;Homo sapiens
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TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATAAAAAAAAACCTTTTTTAACAG
GGGCTTGCGGTTTGTGGCCTTTTTTTGAAAAAATAAAGTTGGAAACTTTTTTTCCAAATTA
AAAATGAGGTTTTTAAAAATTTTACCTTGCCCAGTTTTGAAACATTTTAAAACCCTTTAA
GGGGGTTTTGAAAAAAACCAGTTTTT

Sequence=11965;DNA;Homo sapiens
TTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATTCTCCCTGAATCTTACCAAC
AAAACACTCCTGAGGAGAAAGAAAGAGAGGGAGGGAGAGAAAATGAGAGAGAGAGAAGCA
AAAAACCAAAGAGAGAGAAAAAATGAATTCATCTAAATCATCTGAAACACAATGCACAGA
GAGAGGATGCTTCTCTTCCCAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCCTATT
TCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCGCATCTCTCAAACCTGTGA
TGAGAAAAAGTTTCAGCTACCTGAGAATTTCACAGAGC

Sequence=11966;DNA;Homo sapiens
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TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTANATTTTCTATTTTTCCC
TTTCTCGCTTAAAAAAAGTGTTTAAATGTGTTTTTCCCTGAAGATTTCCAGTGTATTCCA
CAGTGTTTAAAAAATAGTTTCCCCAAAAATATATCTTGAAAGCATTTGACACAGTGGTAT

TABLE 2
1931/3461

TTGTGGCGTATCTGGCGCTTGTCAGAGTGGGGCCCAGGCCTGATGAGCCACCATCCCATC
ACCCGAATGCCTGCTGAAGGTGGCGCACACGTGTGCCTGGGATGTCCGGCTCTTCACAGG
GGATCAGACCCGCGTACCAAGTGAATTTAAATAATTGGTGTGGATTGGTCAGTAGCTAAC
TGGGCTTTTAAAGAGTATTGAAGATTGAAAGGGTTTTTCTTTCTTTTTTAAAAAAGAAAA
ACAAACTATTGATTGTCGATAATGAAAAGCTAGGGTTTGCCCTCTTCATGTCTACTCTCC
TTCCAAATAGTTATATCCAAAACTGTTTTTC
Sequence=11967;DNA;Homo sapiens
CCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTT
TCGAGCGGCCGCCCGGGCAGGTACTGAGCTCCACAAACGTGGCCATGGTTGGTGCGGAAA
TGATTCTGAGTGAGCAGGTAGAAGTCTCACGTCCTGCTGTGTCAGAGTTGGTTCCTTCCA
GAGGGTTCGTGGTCTCGCTGGCTTCAAGAATGAAGCCGTGGACCTTCACAGTGTGTGTTA
CAGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCCTTCAGATGTGTCTGGAGTTTCTCCC
TTCTGGTGGGTTTGTGGTGTCGCTGACTTCAAGAATGAAGCCGCAGACTGTCGTGGTGAT
CGTTGTAACTCTTAAAGGTGGTGTGGACCCAAAGAGTGAGCAGCAGCAAGATTTTTCGTC
AAGAGGGTAAGAACAAAGTTTTCACGGTGTGGAATGGTATCTGAGCGGTTCCCTGCT
Sequence=11968;DNA;Homo sapiens
ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTACTGAAGAAA
CAGTTTATGTGCAAGGTGTATAAAAAAATATACCTTTGATAAAAAGATTATAAGGAGGCC
TAAGAATGTGAATTTTTACCTAATTTAAAAGGGTTAAAAAAAATTATTTGATTTTA
Sequence=11969;DNA;Homo sapiens
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GCGAGAATGTGATGATGCTTACACCTGAAGCAGACTTAACTGAACAGATGACCCCAATCT
GCCTTTGAGATCTGGAAGACCTAGACTATTCACAAATTCACTGTTTAACTTATTGAGCGT
AAGCCAAATGTGATCCTAAACACTGCTACTTGATCCCTACTGCCGACCTGGAATGGAGAC
TTTTATCTACTTCTCTCTCTCTGAAGATGTCAAATCGTGGTTTAGATCAAATATATTTCA
AGCTATAAAAGCAGGAGGTTATCTGTGCAGGGGGCTGGCATCATGTATTTAGGGGCAAGT
AATAATGGAATGCTACTAAGATACTCCATATTCTTCCCCGAATCACACAGACAGTTTCTG
ACAGGCGCAACTCCTCCATTTTCCTCCCGCAAGTGAGAACCCTGTGGAGATGAGTCAGTG
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CTGATTCACAGTCTTATTTTGACAGCATGAAAAGGCCTCTTGAAGCATAACTTTTTAAAT
ATCTTTTTC
Sequence=11970;DNA;Homo sapiens
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CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTAAATTTCATGTAGAAATG
TCTTAGTTGAAAAGCCATTTTAAGTCCTATATAAGCTAACAGTGATTTTACTCCTTAGTT
CTTCACTCATAAGGATTTTCCCTGCTTCATGAAATAAACAGTGTTGCCACCATGGTTTGA
GGTCTCAATGTGGCAAATTTAGCTTTCATGTTGACCACTCTGCTACTAATAGAAATACCA
AATAAAGAGAAGCAGCCATACCAGTTAGACATATTCAAAATAAATCCAAAGATGCTATTT
ATTATAAGTTTCATAGAAATGATTATCAAAAACACTTGCATGCCAATGTTTTCTTGTGCC
ATTTCTTTCTACAATAAATCTATTTGGCTTCTGTTTCACCTTAGCTGTCATAGACGTGTT
GTTCAAGTATCATATTGTCAGTACCATACAGAAGTTAAATCCCAGGAACTATGAACACTA
GACCTTATGTGGGTTATTCCTTCAATCATTTTAAACATTGAAA
Sequence=11971;DNA;Homo sapiens
TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC
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TCTGATCTTGTTGAGGGCATGCATGGATCACTTGTTAATAATATGTAACACATTAATCCA
AATCTTTAAGGATAAACAAGAAAAGGAAAAAAGCAGATAAATGCATTATTGTCAAAAAGC
AGTCCTACATTCAAGGAGTCATGAGATAAAATGAAGTGCCTGGGGGAAACTTTGAGAAGC
TTAGTTTGAATGAACAGAGGAGAATTGGGACTTCTTAAAGAGCGATAACACTGGAAATGT
GTGGAAGAGTCCAAACCACATACTATCCAAGGACAATCCAC
Sequence=11972;DNA;Homo sapiens
CGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAA
TTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGNGTATGTTGTCCTTGAAAGGGCA

TABLE 2
1932/3461

TANGTCTGTGGGAGGCATCCGGTCCTCTCTGTATAATGCTGCACAATTGAAGACGTTCAG
AAGCTGGCCGCCTTCATGAAAAAATTTTTGGAGATGCATCAGCTATGAACACATCCTAAC
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AAAAGTTAACACAGTATTTTTCTCAAATGAACATGTNTATTGCAGATTCTTCTTTTTTGA
AAGAACAACAGCAAAACATCCACAACTCTGTAAAGCTGGTGGGACCTAATGTCACCTTAA
TTCTGACTTGAACTGGAAGCATTTTAAGAAATCTTGTTGCTTTTCTAACAAATTCCCGCG
TTTTTTGCCTTTGCTGCTACTTTTTCTAGTTAGATTTCAAACTTGCCTGTGGACTTAATA
ATG

Sequence=11973;DNA;Homo sapiens
ACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCTGAGCCCCTAAA
AGGTAAAGACTCATCCAAGCTGTTCTGAGATTCCCTCCAGGCAGGGAAATGACTATCTGG
ATCTGAGATTATGTCATCTTCATCAAGTTCTTCTTTAACCAGAGAGGCTTCGGGTTTCAG
ACACACAGAAGCATAATTCTGGCCATACAAAAACCTCAATGTTTCTTCTGTCTTCCACTC
AATCAAAGTCTCCTTCAAAACTTTAAGTAAGTTTCTCTTTCCAACTTCAGGACACACCTG
CACTGAACTAGACACTGACCTAGACACTNGGTTTGATTTGGCAAATTTTCTCTTAAAATG
CTCTGCACTTTTCTTACTTATGCCTACTAGAGTTATTTCTGACCTACTGTATTCACTTTC
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TACTTTCTGTAAAGGAAGTTCACATGTAGCATCTTTCTCCTGACTATCTAATTTGCAATC
GCCTAACTGCTCAGTGACATCTACTAC

Sequence=11974;DNA;Homo sapiens
CTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAGGCGCTAATTGTTGTGATAA
TTTGTAATTGTGACTTGTTCTCCCCGGCTGGCAGCGTAGTGGGGCTGCCAGGCCCCAGCT
TGTTCCCTGGTCCCCCTGAAGCCTGCAAACGTTGTCATCGAAGGGAAGGGTGGGGGGCAG
CTGCGGTGGGGAGCTATAAAAATGACAACTAAAAAAAAAAAAAAAAAAAAAAAAAAGG
TCCTTACTGTCGTTGGATCCCATGCTAATGAGGTCATCAGAATCAACATTGTGAACTATG
GCTGCCTTGTATCCTGCTCTCTGNGCATTTAAAACCTTTATATCAAAATTACAATCAAGT
CTTCTAATTAACACGATGAAAGTGCCAGATGAATTGTCTTTTACTGGTGGAGGCACTATG
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AGTCTATAACCAAATCTTGCAGGGAGGTCATCAAATGTCTGAGATGCATTTT

Sequence=11975;DNA;Homo sapiens
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CATGTAGGGTGATGAGCAGTCACAATTGTTGACTAAAATGCTGCTTTTAAAACATAGGAA
AGTAGAATGGTTGAGTGCAAATCCTTTAGCACAAGATAAATTGAGCTAGTTAAGGCAAAT
CAGGTAAAATAGTCATGATTCTATGTAATGTAAACCAGAAAAAATAAATGTTCATGATTT
CAAGATGTTATATTAAAGAAAAACTTTAAAAATTATTATATATTTATAGCAAAGTTATCT
TAAATATGAATTCTGTTGTAATTTAATGACTTTT

Sequence=11976;DNA;Homo sapiens
CGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGA
TGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCCTGACGCCAAA
ACCAGAAAAAGACACAACAAAAAAGGAAAACTATGTGCCAGAACTTAAAGATAACTTTAA
AAAAAAGACGTAAATGCAATAAACAGATATCAATAGAAACAACAAAAAATTAGAAAGTTT
GGGGTGATGGAGTTAAAGTTTATAAATTGTATGAGTTATTTATTAGTTGGGTTTTTTTGC
AATCAGAATTAAATTGTCATCAATTTAATATGATCATTTATAAAATGTCGTTTACAAGCC
TCATGGTAACCTCAAATCAAAAGACCTACAGTAGACATACAAAAAATAAAAAGCATGAAA
TTAAAACACACCATAAGAGAAAAATCACCTTTATACAAATGAA

Sequence=11977;DNA;Homo sapiens
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GATGAATGTAGAATCTCTGCTGAGCTAGTATTTCCTGACACCCTGTTTATGTGCCTTGTG
AATTGTGGGCATTGCCATGTGGGGTATTTCATTTCATCTTTACAATCACCCTCCAAAAGT
AAAAAAACAAAGACTGCCTCACTCAAATGTCCACTGCCATCAGTAGCCCCATGAGTATAT
ATACGGTGCCAAGCTCTGCCATGATCTCTCCAGAGAAGA

TABLE 2
1933/3461

Sequence=11978;DNA;Homo sapiens
TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC
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GGGTATGATCTTTGTATAGGACGTGTGTTGTCATTATTTGTAGTAGTAACTACATATCCA
ATACAGCTGTATGTTTCTTTTTCTTTTCTAATTTGGTGGCACTGGTATAACCACACATTA
AAGTCAGTAGTACCTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCG
TTACTAGTGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATG
Sequence=11979;DNA;Homo sapiens
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AATGTTGTGCAACCATCACCACTAATTCATCAAATTTTAATAATCTTTTAATTTTTGAGC
CAGATTTAGCAGTGAGGGGCTATATTCCAACTTTAATGACACTAATGTTAATAAGTTCTG
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CCCCATACGCATTACGCAGTCACTCCCTTTTCACCCCCTCCCTAGTTCCTGATAACTACT
AATTGGCTTTGTCACCATGGATTTGCCTATTTTGGATATTTCATATAAATGGAATCATGT
GGCTGGCTTCTTCCACTTAGCATGCTTTCTT
Sequence=11980;DNA;Homo sapiens
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GCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGNACTT
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GTGCAGGGGCACGGTCTCGGCTCACTACAACCTCTGCCTCCTGGGTTCAAGTGATTCTTT
TGCCTCAGTCTCCTGAGTAGCTGGGATTACAGGTGTGCACCACCAAGCCTGGCTAATTTT
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CTTGTGATATTTTCTTAATACTTCCTTTTACTTTACTGTGTGGACTCACCCTGAATTTTT
TCTTGAGCAAAATCCAAGAACCCTTTTTTGGGGCTTGGATTGGGACCTCTTTCTGGTAGA
ACTCTGCACATTTTCTTATTTTTCCAATTAAAAGAATCAGCTGCATTTGTCTTCAGTGGT
CTAAATAAAATTT
Sequence=11981;DNA;Homo sapiens
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AGAGACAGGTTCTTGCTGTGTTGCCCAGGCTGGAGTGCAGTGGTGTGATCATGGCTCACT
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GACCACAAGGCATGCACCACCCTGCCTGGGCAATTATTTCTTTTCTTTTCTTTCTTTTTT
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TATTTCAA
Sequence=11982;DNA;Homo sapiens
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TABLE 2
1935/3461

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TABLE 2
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TABLE 2
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TABLE 2
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TTGAACAGCACCCTGGAAGGGTTCATAG
Sequence=12015;DNA;Homo sapiens
GATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCG
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CCCTAAGAGTATATAACAAGTTCCTCTCAGATCTTAAACTCCTTGCTTCTATATTTTGTT
TTCTGATTTTTTTTAACTGAAATAGTTATTATTACAGGGGCTACTCTTGGGAGTTTAGAA
TAAGAAAGGGTGCTTAGACACTCAAGCAACATCTTTGTAACAAAGTAACACCATAAAAGC
ATTATGTGGCCTAGTCCCATGATTTCTCTCTCCTTTTTGGAGACCCAGGATTGAATGTGG
GCTGTGCTCAGAGCTCAGAGATCCAGTTAAAACAGAGACTACGTTTAAAACTATCTAAGT
GCGATTGGTCTCTTTATACAATCCTGTGGTAGATTTCTGTAATTTTATGTTTGACTTGGT
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Sequence=12016;DNA;Homo sapiens
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CAGAGCCCTGTAGTGAAATTTCAAATAAGGTAATGTGATTCTTCCGTTTTGTTATTTTTT
TTTCTCAGAATGGCCTNGGATATATTTGTTTTTTTTTGTGTGCGTGGTTCCATATAAATGT
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TAAATCCATGAACATAATTTTGTGTGTGTGTGTTCTTTTCAATTTCTTTCATCAATGCTT
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Sequence=12017;DNA;Homo sapiens
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ACTATAGGTATCTGCCAAAGATTTCAAATGGCATCCCTATCTGCCAACGAAACTTTAAGG
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GCCCAGAACCTTGTTGCAGTGACCTTCTTGGGCCCTACTCAAAANCTATCNAGCTTCTCG
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CTTCAAAATATCTTCCAGAGATGCTAGTATTGTTTTTTAGTATACCTAATCTTCCTGTGA
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CACT
Sequence=12018;DNA;Homo sapiens
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CAGGCCTCTCACAGATCTATCCCTGCTCACTATCCTGCAGCAGACAGAGAGACAAGACCC
CAGCCAGCCCCTGTCCAGGCAGCATGAGCAGCTCATCACAGGCAAGGAAGATGCTGGCAA
TAACTATGCCTGGGGCCACTACACCATTGGGAAGGAGTTCATCGACCTGCTACTGGACCG
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TABLE 2

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TGGGCGGGGCACTGGCTCTGA
Sequence=12019;DNA;Homo sapiens
CCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTA
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AAATCCTCTACCTCAACTCCCCCTAAGTGCCTGGCATTACAGGCATCNAGCTGCCATGCT
CTGGCTACANAATCTTAATGTTTTCCCCATGGCTTCTTTTTCTGGCGTTCTTTTCTCACG
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AGAGGAAAGAAACACACTGGCTTGATGGTCGAGGACAGGTTTATTTTAAAGAAAACAAAC
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Sequence=12020;DNA;Homo sapiens
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AGCACATTCATGTTACATTCAGAGAAATGGAAAATTTAATTACATTACTTTTCTACCCTG
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Sequence=12021;DNA;Homo sapiens
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TT
Sequence=12022;DNA;Homo sapiens
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AAAAAAATTTGTTTTTGTTTCCCAGGGAATTTTTTTAATCACTTTTAAAACACCCTCAAA
AATTTTTTGGGAAAAAAAAAAAAAATTTGGGGGAAAACTGGGTTTTTGCCAAAATTTTT
TTTTTTCCCCTTT
Sequence=12023;DNA;Homo sapiens
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TGGGGCAGCATCACACTGATTTCCTTGTCAGTTTTCCTCATTCATTCATGAATTCATTCA
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ATGTAAAGTTCCCAGGCACAGTGAGGATACAACAATAAACAAAACAAAGTCCCAATTATC
ATGAAGCTTAACTTTTAGTAGGGCACAAAATCAGCACGTAACGTGTAATAAAATGCCAGG
CAATCTTAAATCCTGTGAAGAAAAGTAAAACAGAAT
Sequence=12024;DNA;Homo sapiens
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CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTACCAAGATAAAATATATTCA
AACGGCTGTGACTTTNGACCATGAATTAAGTTGATTCTCCACAAAATGTTNGGCNTTCTC

TABLE 2
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TATCATTTAAATTTGCCGAGATCCTTTTACTTTGTTAAACCAAACGATAATGCTTTTTTA
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TTAACATTCAATCAGTAGTTTTAAAAATGTTTTTTTCCACATTG

Sequence=12025;DNA;Homo sapiens
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ACCCTTACAAATGTTTCACCAAATCCTTTATGTTCACCTTTTTGCCC

Sequence=12026;DNA;Homo sapiens
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Sequence=12027;DNA;Homo sapiens
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CTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACATACTTATTTTCTAATTGG
ATTTGAAATCAGCATGATTTTGTTTGACAAAGCAAAGTTTAAGATTGAGGTCAGAAATAC
TTTAATGGAGCAAAGACACATACCAACTTTACATGACGGTGTGAGAAATAGTCCTATAAA
CTGGTCTCTTCATCATTTATGCTCTCACTTTAAATATCCAAATATTAAAAGGCAGGCTGA
CCTGTATCACACAGAATTAAGGCAGTAATTTTCTGCTTCAGTAGATCAAGGGTAGGGCTA
AGGCATCCTGTGGTAATTCTGATTCACAGCTAGATTTGGGAAACACAAAATTAGGGAATG
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Sequence=12028;DNA;Homo sapiens
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CTCTGAAAATGAAATTTTAAAGAAAGAGTTAGAAGCAATGCGAACTTTCTGTGAGTCAGC
AAAACAAGACCGACTGAAGCTCCAAAATGAACTGGCACACAAAGTGGCAGAATGTAAAGC
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AGATGCATTAAAAGAT

Sequence=12029;DNA;Homo sapiens
GCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGC
CGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNTNCCCCTTCCTTTCTTTTTTCTTCATTT
ACTTTTTCTTTCTTCTATNTCCTCTTTCTTTCTTTCTTTTTCCTCTTTCTTTCTTTTTCT
TTCTTTCTCTTTCCTTCTTTCTTCCT

Sequence=12030;DNA;Homo sapiens
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TTCAAGTAAAATGTTATTCAAAGTGATCATGCTGGCATAAGAAAGAAAAAGGAAAACTGA
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TGTCTTTTTTTTCTATGAATAAAGTTAAAA

Sequence=12031;DNA;Homo sapiens
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GAGATCTGTTTTCAATGCAGTTTTATTCTACTTCTTATTCTGATTTAAGATGGGATGATA
GTTTTGACAAA

Sequence=12032;DNA;Homo sapiens
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TABLE 2

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GGCCGATGAACTCCTTATTCTTATTAAAAAAGGCATGAGGTGTAAAGAGCACTATAAACC
ATGAATTGGAAGTTGATGGTCAGTGAAGAGATAAACATAGAATATGAGGAAATTTATGTC
ATGCTGAAAATGATGAGGTTCAAATGCTTCAAAATAACTTTTATAAAAACTTCCCTTGAA
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CGTTATTTATT

Sequence=12033;DNA;Homo sapiens

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Sequence=12034;DNA;Homo sapiens

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CCATGGAAGCTATTGNGCATGCANGCACCTGTTTGGGAATTTTAGCAAATGATGGTGTTT
TGCTTGCAGCAGAGAGACGCAACATCCACAAGCTTCTTGATGAAGTCTTTTTTTCTGAAA
AAATTTATAAACTCAATGAGGACATGGCTTGCAGTGTGGCAGGCATAACTTCTGATGCTA
ATGTTCTGACTAATGAACTAAGGCTCATTGCTCAAAGGTATTTATTACAGTATC

Sequence=12035;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA
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GAAAAATTGTATAAATGTTTCTAAAAAATTAAATTATAATCCAGCATTTGAATTTTAGAA
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Sequence=12036;DNA;Homo sapiens

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CTCAGCTTATTAATGATATCTTTAAATTATATTACTTTTATTCTGTTTTCCCTCTTTGCT
GCTCATGTGAAATAAATATGAATCTTATGTTTGCACTTATGCTATAAAAGAAATTATCCT
TGGGGTTAATTATTAAGGGATGGGGAAATTAAGAGCTAAGAGACAGGAAAATGAGTTGTG
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TAATTTTTATTTGTTGTATTTTTAGCGGTTAAGAAGATTGTCTACCCAATATAGAACAGA
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Sequence=12037;DNA;Homo sapiens

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Sequence=12038;DNA;Homo sapiens

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TTCTTCTGGAACACAGGAAAGATTATATTAATGCTTATAGCCATACCATGTCTGAATATG
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TABLE 2
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CCTGTTCAGAAGCAATTCAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCCCAGC
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Sequence=12039;DNA;Homo sapiens
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Sequence=12040;DNA;Homo sapiens
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GCCTTCCCCTCTCTTCCTTCTCCTCTTCTCAAGTAAAAGGAAAGGGTGTCTTTTGGAGTC
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Sequence=12041;DNA;Homo sapiens
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Sequence=12042;DNA;Homo sapiens
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CATA

Sequence=12043;DNA;Homo sapiens
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Sequence=12044;DNA;Homo sapiens
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Sequence=12045;DNA;Homo sapiens
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TABLE 2
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AGGCTTATGACTTCATTATGAGAAGGATGAAGACTTGAATAAGATTTGGCACATTTTACG
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ATC

Sequence=12046;DNA;Homo sapiens
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CCTCACCACTATTACCCTAGAGAAGACTTT

Sequence=12047;DNA;Homo sapiens
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GGCATCTCCAAGCCAGTTCACCATTGTGTGAACTGTGCACTGAAGGAGCTCCACTGGGAC
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AGCCCCATTTGAAGCAGAGCCAAAGTGGAAAAATGATTTGGACTAAACGTTAACTCATGG
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Sequence=12048;DNA;Homo sapiens
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ACCGTGCATTCATTAAACAGATTTTAATG

Sequence=12049;DNA;Homo sapiens
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Sequence=12050;DNA;Homo sapiens
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TABLE 2

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TCACACAACATACGAGCCGGAAGCCATAAAGGGAAAGCCCTGGGGTGCCTAATGAGTGAG
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Sequence=12051;DNA;Homo sapiens
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AGGCCGCGGGGAAGGGGCCCTTGGCCACAGGTGGAATTAAGAAATCTGGCAAAAAGTAAG
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Sequence=12052;DNA;Homo sapiens
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Sequence=12054;DNA;Homo sapiens
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TABLE 2

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Sequence=12056;DNA;Homo sapiens
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Sequence=12057;DNA;Homo sapiens
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TABLE 2
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CACACACACACACACACACCCCAAAATTTTATGAAGATTAAAGAAAACCTTTTATTGA
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Sequence=12062;DNA;Homo sapiens
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T

Sequence=12063;DNA;Homo sapiens
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TABLE 2
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Sequence=12070;DNA;Homo sapiens
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TABLE 2

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TABLE 2

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CT
Sequence=12080;DNA;Homo sapiens
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Sequence=12081;DNA;Homo sapiens
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Sequence=12083;DNA;Homo sapiens
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GACCAGACTCGTCTCATGCCAGTTGCAGCCTTCTCAGCCAAACGCCCCGACCAAGGAAAA
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TABLE 2
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CAAAAAAAATGCCCCCCTGATTAAACCCCTTTACACCCCCCGAGACCCCCTGGCCCCACT
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Sequence=12087;DNA;Homo sapiens
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Sequence=12092;DNA;Homo sapiens
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TABLE 2
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Sequence=12094;DNA;Homo sapiens
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TABLE 2
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Sequence=12099;DNA;Homo sapiens
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Sequence=12100;DNA;Homo sapiens
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TABLE 2
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Sequence=12105;DNA;Homo sapiens
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TABLE 2
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TABLE 2
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Sequence=12117;DNA;Homo sapiens

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CCTTTTTACAGGATGACTCCTGCTGTGAGATAGGGCCTAATTTACAAAAGTGTCGAGAAT
GTAGACTTATTCGCAGTAAAAAGGAGAAGAACCAGCTCACTCACCAGTATTTTGTAGATT
TTACTACTTTAGACGGTTGTCATTTAGTAAAAACGGAGTAGTTAGAATAGATGGTTTCTC
TTCTCCTGACCAATATGATGATGAAGCTATGAGTTTGTGGACACATGAAAATTTTGAAGA
TGATGAACTAGATATAGAGACTTCTAAATATATCTTGGATATAATAGGTGATAAGTTCTG
TCAATTAGTAACATCTGAAAAAACAGCTTTGTCCTGGGTGAAAAAGGATGCCAAAATTGC
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Sequence=12118;DNA;Homo sapiens

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Sequence=12119;DNA;Homo sapiens

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Sequence=12120;DNA;Homo sapiens

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GATACATGGTTTGCAAATATTTTCTCCCATTCTGTGGGTTGTGTTTTCACTTTATCGATA
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Sequence=12121;DNA;Homo sapiens

TABLE 2
1957/3461

ACGACTACTATGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT
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AAGCCCCCCTGATGAA

Sequence=12122;DNA;Homo sapiens
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TTTT

Sequence=12123;DNA;Homo sapiens
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GTCCCAGCTACTTGGGAAGCTGAGGTGGGAGGCTGAGATTAACTTTGGGAACCACCGCGC
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TABLE 2
1958/3461

Sequence=12126;DNA;Homo sapiens
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AATCACAAGGTCCCACAACAGGCCGGGCCATCTGTAAGCTG
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Sequence=12128;DNA;Homo sapiens
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Sequence=12129;DNA;Homo sapiens
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TABLE 2
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Sequence=12132;DNA;Homo sapiens
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Sequence=12135;DNA;Homo sapiens
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Sequence=12137;DNA;Homo sapiens

TABLE 2

1960/3461

GACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG
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Sequence=12138;DNA;Homo sapiens

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Sequence=12139;DNA;Homo sapiens

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CCTA

Sequence=12140;DNA;Homo sapiens

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Sequence=12141;DNA;Homo sapiens

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TABLE 2
1961/3461

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ATATCAGCAAGGCAGAGATGCTAGAGATCGTGCAGGCAATCTATAAGATGGTTTCCTCTG
TAATGAAAATGCCTGAAGATGAGTCAACCCCAGAGAAAAGAACAGAAAAGATCTTCCGCC
AGATGGACACCAATAGAGACGGAAAACTCTCCCTGGAAGAGTTCATCCGAGGAGCCAAAA
GCGACCCGTCCATTGTGCGCCTCCTGCAGTGCGACCCGAGCAGTGCCGGCCAGTTCTGAG
CCCTGCGCCCACCAATCGAATTGTAGAGCTGCTTGTGTTCCCTTTTGATTCTTCTTTTTA
ACAATTTTTTTTTTTTTTGCCAAACAATATCAATGGTGATGCCGTCCCCTGTGCGGTCTG
ATGCGCCTTCCTCCGTGACGCCTTCAGCTTCTTTTGTCGTGGATGCTTCGTGGGAATG

Sequence=12146;DNA;Homo sapiens
CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGCTAGGACCA
TGCAGGATGTGGGCAAACAAGAGGAGAAGGCTGCCTCTCATGTTCCTCCCCCTCGGTCCC
CACGCTTAGGGAGATGTGGGGCTGGCGATGGGAAAGCTGTATGGCAACGACTTCAGCCAG
ACCACCATCTCACGATTTGAGGCCCTCAACCTGAGCTTCAAGAACATGTGCAAGCTCAAG
CCCCTGCTGGAGAAGTGGCTGAATGATGCAGAGTCCTCTCCGTCAGACCCCTCAGTGAGC
ACGCCCAGCTCCTACCCCAGCCTCAGTGAAGTAT

Sequence=12147;DNA;Homo sapiens
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TCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGTGGAGAGCTCGGTGGACA
AATCAAAGCCCTGGAGTAGGTCCATCGAGGACCTGCACAGAGGGAGCAACCTGCCTCACC
TGTGGGCAACAGTGTCTCCCGCTCTGGAAGACATTCTGCACTGCGATATAATACATTGCC
AAGCAGAAGAACTCTGAAAAATTCAAGATTAGTGAGTAAGAAAGATGATGTGCATGTCTG
TATCATGTGTTTACGTGCCATCATGAATTATCAGTATGGTTTCAACATGGTCATGTCTCA
TCCACACGCTGTCAATGAGATTGCACTAAGCCTGAACAACAAGAATCCCAGAACAAAAGC
CCTTGTCTTAGAACTGTTGGCAGCCGTTTGTCTTGTCAG

Sequence=12148;DNA;Homo sapiens

TABLE 2

1962/3461

TGTAATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCC
AGTGTGATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTGTAAAGATAGGGGTATCACTATGTTGCCCAGGCTGG
TCTCAAACTCCAGGCCTCAGCATCCCAAAGTGTTAGGATTACAGGCATGAGCCACCATGA
CTGGCACTAATTTTATTATTACATACCTAGGTATGATTATATTTGTTTATTCTATTTAAA
GTTCACTGAGTTTCTTGGATCTGAAAGTTTATGGTTATCATCAAATTTGGAAAATTTATA
GTCACTGTTTCTTTTTCTTTTTTAAAGAAATTGCCCAAACTTGTCTTGAACTCCTGTACT
CAAAAAATCCTCTCATTTCAACCTCTCAA

Sequence=12149;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTAGTGAAA
CCCCGTCTCTACTAAAAAATACAAAAAATTAGCCAGGCGTGGTGGCGGCCGCCTGTAGTG
CAGCTACTCCCGAAGCTGAAGGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGTAG
TGAGCTGAGATTGCGCCACTGCACTCCAACCTGGGCGACAGAGTGAGACTCCGTCCCAAA
NAAAAAAAAAAAAAAAAAAAAGGTACGCGGGGATGTGTGTAGTCGGGTATGAGAACGATT
GCAAGCAAAAGCAGCTGAGGGACGCTGTCCAAGGAGTAGGCTCAGTAGCACGAACTGCAA
ATACTTGAGAAGGGAAAAGTTCAGCCTCGTGCTGGAAAGTGGTTTAGCATGCTGGAGCTG
GTTTTCTGCTTGGTAGCCCTACAACTTTGGCCCAACTACT

Sequence=12150;DNA;Homo sapiens

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TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGTAGCATTTTACCC
CACTTTCCTCTGTCCAAAGCGACATACAAGTAACGGGCCTGCTTCGTGCTGCATCAGAAC
AGGCATAAAAAGCAAATCATTTACTTTCCGGAAACAGAGTCCAACTGCACAGAGCATTCG
CGGTTATTCCCTTGTTCTATCATTTTCTACCACCCAACAACATTCAGCAAAACGAGTTAA
TAATAGTTACTGGTGTTTGAGGAAGGGTAAAAAAATAAAATAAAATAAAATAAAACTAAA
GAACACACATGGCAGAGATACGATATTACTGCAAAAGCAGGTGAATGCGGGAACATCCTT
GGCTGGCCAGGCTNTATGTGAAGCTNGCACTGCAAGTTAAAAAACAAAACAAAAAAGTTA
GAAATAATAATAAATTAAAAAGAAAGGAAAATTAGGAGCGACAGCACCAGCATTCAGTGA
TGGTGAATGCTCATGCAATGATTATGGGAATGACAGAAATTAAAACCAAAAATTTGAGAA
GGCTACTCTACATGACAAGCCAAAGCAAAAATTAATACTGAATTAAAGACATAT

Sequence=12151;DNA;Homo sapiens

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CAGTATATGTAAGAATCTAATAAGATAAATATATTTCAAATTAATAGGGAAATTATAGTT
ATTCTACATTTACAGAAGATTTTGGAAGAAGGTGCTGGCTATTTGTTATGGGGAAAGGAT
GGATTAATTGCTGCCCCATATTTAAGGATGTTCTTTTTTCCTTTNTTGTAATGGCAGTTT
GTCAGTGTGAAATAAAATGTTCTTTTTTAATTAAGATCTAGATTAAAAATTAAACATGGA
GACAAAAGGAAAATAGGCTGGCATTTTTACAGTGTCAGGGTGGGTTAGCAAAGACATGAT
ATCAGAAGCAGAAAATAAAGTGATCCGTTTGACTAAATAGAAACAAAACATATAGCAGAG
ACTTGTAAATAAAATTGAAGGCAATCAGTAAACTGGGAA

Sequence=12152;DNA;Homo sapiens

TTGTATACGACTACTATAGGGCGAATTGGGCCCTCTAGAGCATGCTCGAGCTGCCGCCAG
TGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTT
TTTTTTTTTTTTTTTTTTGTTATTTTTTTTTTATATTTTTTTTTTTTTTTTTTTTTTTTT
TTTTAATTTTTTATATTTCTTTAAACAAATAACTGAGGTAAATGCCAAAAACCTAAAAGT
ATATAAACAGACGATAGTTATAAAGAAATTAAAACTTAATCAAATGCGGTTGGATAAAAC
CTCTACTAAGGCTTTCCTACCTTAATTAGACTACCTAAAAAATTTAACTAAACACTTCAA
TAATTGACCATGAAGAGAAAAA

Sequence=12153;DNA;Homo sapiens

CGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGAAATATACTGG
CCTAGCAGAGGCAAAAAAAAAAAATGAATTTTATTTTACTTGTCACACCTGTCTTATAAA
CTGGAGTTTTGCTACAAAAAAAAAAAAAAAAAAAAAAAAGTACGTACGCTGGATGCAGGCG
AAGGAGTTTTTTTTTGGAGGGACATAATGCCTATAGGCAGAATGAACGGACCTATCTACC
CTGGGGGAGGAGCTCCCTGTGTACGGACAGACAAACTAGGCTGCCTGAAGGAAGGTGTTG

TABLE 2

1963/3461

GTTCGAAAGATGGAAGAGACAATCTTTCCGCAGGCATTGATGGTGCCTTCGCTGACTGAG
CTGGACTCGGAGTCGTTGCTCACAAAGTACGCACCCACGCCTGGGAGGATGCCCATACAT
ACTG

Sequence=12154;DNA;Homo sapiens

CTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATAT
CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTT
GTGCTCTTGCATTGAAATTGGTTTTACTGTGCTGAGCTCTGTGCAAAGGAGAAAAGTGAA
GTTTGAAATTCACTAACACCTGCAGAAAATCTCTTACTGCTCTTTAACACACAAGCACCA
GGACTTGACTCACATTATTACAACTCAATCCACTTGAACACTAATTGGCCTGCCTGCTTC
ATGCCAGGTCTATAAATAGGTGATCAAAATGATCATCAAAATGAACAGGGAGTGCCAAGG
TCCTGAGCAGAGAACGGAATGACAGCAAAGGAAATGAGACCTTGGGTGAGGTGAACCCTG
GGTGGACGCTCANCAGAGGAGAAGGGCACCAGGGCTCTGGAGTCCTGAACTACCCAAAGA
AAAGCGGAGAACAATGATTAGGCACTGAGGACTCAGAGAAAGCCAGAGTCCACAGGGAAA
GGGGAACAG

Sequence=12155;DNA;Homo sapiens

TACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTT
TTTGTAGTTTTTTTNTNGGGGCCATTGATTTCTGTTCTTTTTATTATTTTCTTTATCTGC
TTACATTGTGTTTAATTTGCTCTTCTCTTTCCAGTTTCTGAAGGTGAAAACTCAGGTCAC
TGATTTGAGACCTTTCTTTTTTGTTATAATATAGGATCTTAGTGCTTAAATTTGCCTCCA
AGCATACATTAGTTGCAACTCCCTGATTCTGATATATCGTGTTTTCATTTTCAGCTCAAT
GAACTTTCCAATTTCTCTTTTGATTTCTTATTTGAATAATATACTTTGGCTCTATGTCTC
CACCCAAATCTCACCTTGAATTGCAATCCCCATAATCTCCAGGCGTCAAG

Sequence=12156;DNA;Homo sapiens

CCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTA
GCGTGGTCGCGGCCGAGGTACCAGCATGGAATTATAGCACCACCTTGTGGTTAACATGCC
AGTATTTTACCTTTTGTTAAAACAAGTGATTTCCCATCAAACAGGATAATATTTTTTCCC
TTTTGAAAAACTCAATTTTAAAAAGAAACATTTTTGAAGTTTTCTTATGGAAGATAGAAA
AAAAGTTAAGTCTCTTTCTACCCTTTCTTTTTTTCTTTATATAGTGCAGATATACACACA
GAGAAGGGACTTAAAACATTTCTAATCTCCTAGTTTATATACAGTGTGCAAAATATAAGT
AAGTATATATTGAAAATATAAAATATTTCATATATGTTATCAGGTGGAAATTTAGAATCC
AAATTTTCTTAAACTTTAATAACTTGTCTAACAACTCTCTAATAGGGACTAAAAATCAAC
TCAATATATCATACATTTACACTTACAAAGAGTCTTTAGACAACATAATTTTTGGAAAAA
TAAAGCAAATTCAACTTTATTGGAGTTATTGGACAGATCAGCAAATTGTTATTTTAAAAA
GTTTTCTTGT

Sequence=12157;DNA;Homo sapiens

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TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATAATAAATACAAGTTAGTAG
CTCCAAAAAACTACTTTCCCTAAAAAGTCATTTCTGTCGAACAATTTAAGGAGCAAAGCA
TCCTTAAAATGAAAATGCACTAATCTTTTTTACAACCTGCACAATTAAGTATTTCAGAAA
AACAAAAACTTGTGCAAAATGGTAAGAAACGCCCACCTATACAAATTTAATATTAAATCA
GATGAGAACATGAATTTATAAGTAAAAAACAATTTAATATTAATAATATATAGAGAAATT
AAATATTGAAATTTTAACTTTGTATCACTAATAATCTCAGCTTCAGTGAAATAATTTAAA
AAAAGCTGTCAAACACTAATTTCCTAAATAAACTGAAACCTATGAATTGACAGTAAATAC
TTCAGAATCTCTAACAATGAAGACCTGCAAAATCAGCCTAATTATTTTCCAGTGTGTGTG
TACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAACACACTGGCGGCCGTTACTAGT
GGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGA

Sequence=12158;DNA;Homo sapiens

AGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGC
AGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTCAGAATTTATATACACTCTTCT
TTAATACAGTGGAACAGTCTTGCCCATGGTTCCCAGAGCAAGGGACAATGTAGTTGGATG
TATGGGAAAGAAT

Sequence=12159;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG
ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTAGACATGCC

TABLE 2

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AGCACAGAAGGTGTGTTCATTCAGTATGGGCTGCACCCCTACAGGGCTCTTCGTGTCTTC
TTTTCGGGGACTGTGCTGCCTTCATAATGCCTTATGCATTGGTCTTGGTCAGCCACAGGC
AGCATGACATACTTCAGATGGTCAGTAAATTTAAAATTGGCATTTCACCCCCAGCCAGAA
ACATAACCCACACACCCTACTTCTGCATAATCCTTTGAAAGTAAGCAGATGGGCATCACT
CTCTCATTAACAGACACCTTCTGTTTGAGTTTGATGAGCTCAATATCTACCTGGGAGTAG
TTAGGGTGTAAAACAACCTTCTCAATCTCTACAAACTGCTTTTTCCCCACATAAAGTGTT
AAAATANGGGCAATGTCTTTCACTATTACATTTTC

Sequence=12160;DNA;Homo sapiens

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TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACAGGCTGTGATACATGTGGCG
ATCGATCTTCTTAGATTCACGGCATATTCTGATCATCCGGCGCTATAACCCATCGGCTCA
TCCATGTGACCTTCTCTGGCATTCGGGCATTGGCTGTACAATGGGGACGCCTCATACCCT
TGCCACTCTCTTCAGAAATCATCTCTGTTACAGACTGTTCCTGATGTTTCCACATTAAAG
AACTTTGTGGATTGCCTTTGCTATGGCGACGGCCACCTGGTCTTCTATTACAGCCTTCTG
AGTTCAAAGTAAAACCAAAGGAAGGCTGGACTCTGCGTGGCTGATCTGGGTTAACTGTCA
CTCTGATCTTTGGATAGTCACTTATTCCATTAGGAGATTTATTACCCAGTTTCAGCATGT
TGTTCCAGGATCCAGAACCTGTCAGTTCACAGGATGAAGAGTTCGAAAATA

Sequence=12161;DNA;Homo sapiens

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TTTTTATTTATTTTTTTTATTAAATTTTTTTTTTTATTAATTTTTTATTTATTTTTTTTTT
TTTTGGGAAAAAAAAAAAAATTATGGGGGGGGAAAAAAAAAAAAAATTTTAAAAAAAAAA
ATTTTTGGAAAAAAATGGGGAAAAAAATTTTTCAAATGGAACCTGGGGGGGAAAAAAGTT
AAGGGGAAATATAAAAAAATGGGGGGGGGTAAAAAGGGGATAAAAGCTGGGAAAAAAATT
GGGGGAAAAAAAGGAAAAAAGGGGTTTCGGGGGAAAAAAGTTTTACCGAAAAAAATCCAA
AAAAAAAAAAAAGGGGAAAAAAAAAAGGGAAAACCGGGGGG

Sequence=12162;DNA;Homo sapiens

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AGCGTGGTCGCGGCCGAGGTACAATTTAAAATAACTAAAAGAATATAACTGGATTGTTTG
TAACACAAATGATAAACGCTTGAGTAATGGATACGATATTACCCTGATGTAATTATTACA
CATTGCACGTCTGTATTCAAAATACCCCATCTAACTCATAAATATTTATATCTACTATCT
ACACAAAAAATTAAAAATTAAAAAAATTTTTGCATGATGATCTTAACTGAATTTTTCAAT
AATAAAACATTGTCTGTTTTCATTAAGTTCAATTTAGCAATTTCAATTATGTTTAATTAT
TTTTGCATCCTGAATAAAAAATCTTCTTATACTGCAAGATTTTGAAGGCAATCTAGACTT
ACTTCTAGATTTGTTATGTTCTACCTGTTATAATCAGGCTTACAATTCATGTCCAATTAA
TTTTCATATGTAAAGTGAATTATATTTTTCATGAAGTTGTTCAGTTTTTCAGCCCCACTT
AAAAAAATGT

Sequence=12163;DNA;Homo sapiens

CTCTAGATGCATGCTCGAGCGGCCCCAGTGTGAAGGGATTTTGGAAAAATTCGCCCTTTC
GAGCGGCCGCCCGGGCAGGTACTTTAAAGCCACAAAGTCTAAGACGATGCCTTAAATACA
AGAAGGCTGAGGGACTCCTCAAGTGAGCTGATGCCAGAATGGCAGAATGAAAAAAAATGA
ACTCGAAGACATGAAGAACAACACACAACAGCCACGGTTTGGCAAGAGACCAACCTCAGC
TCAGACTTTCCATCTGAGCACAGCCGTTTGGCTATGAGCTTTTTACTGAATTTTATAGCA
ACTCTGATTTCTTCCTTTAAATGATTGGAGGCTTTTTAAAGATCTTATGGGGCTCAAATA
CTAACTTCATAAATGGCCTTTTGAATAACAGCAGCAAATAATCTCTCAGCTGATATTTCA
ATTTACTAAGGAAGCACANATTAAAACATTCCTGCTACACAGTCATGGTCTGGCCACACA
CTGNGGTGAATCACTGGCCCTGGTGAACAACTGTAGTGCACAC

Sequence=12164;DNA;Homo sapiens

GCTCGAGCGGTCGACAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGC
CGAGGTACGTATGTATAAAAACCGTGCCCTTGTTCACTGCCAACACAACATCTGGGTGGA
CATGAACTCATTACAACAAATCTTATGTGGATGTTGTAAGAAGTCACTCAATGTCTGTGG
ATTTAATAAGTCACTTCACACCACAGAAAATATTTAATAAATCCAAAAAAAGGAAAGAAG
AATATAACGACAGAAGAGCTTCTGTCTCAGTTCTCTGAAACTGAGTCCCCCATAGGAAAC
TGGTCCCAAAGTTCTCGAGGGGTCATTGAAGAAACTTCGGTTTGCTAATTTTTTTCATCC
TTTTAGTGTTCAAAAGTTCTAGAAAGACTCCTCGCTGTTTTCAGTTTTTAAACAGTCAAA

TABLE 2
1965/3461

TCTCCATCTCCCCCAGAAGGTAACAGTCTGGTGCAGATCCATAAAAACGTG
Sequence=12165;DNA;Homo sapiens
TACGACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG
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GGAATCTTCAGCTTAGGTGGCTCTTTTAATAACAAAAAAATCCTTTCCTTCGAAAGTAAC
ATCTCTCAAGGCCAGGAATTCCATTAGTAGAAAGCCTTCCTAAAAAACAAAATTCCTGGC
CAGGCATGGGTTCACGTCTGTAATCTCAGCACTCTGGGAGGCCGAGGCGGGAAGATCACT
TGATGTCAGGAGTCGAGGCGGGAAGATCACTTGACATCAGGAGTTCGAGACTGGCCCGGC
CAACATGGTGAAACCCCATCTCCACTAAAAATACAAAAATTAGCCTGGTGTGGTGGTGGG
CACCTATAATCCCAGCGACTTGGGAGGCTAAGGCAGGAGAATTTCTTGAACCCAGGAGGC
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AAACTCCATCTCAAAAAAAAAAAAAAAAATTC
Sequence=12166;DNA;Homo sapiens
CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA
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GATTATGAACCGCTTTCTAGCTGGTTATTTTGTGACCAAATAATTTAAGGCAAGCGTGGT
GGCATGTGCCTTGTAGTCCTAGTTGCTGAGGTAAGAGGATTGCTTGAGCCCAGGAGTTCA
AGGCTGCAGCAAGCTTTGATTGCGCCACTGCACTCCAGCCTTGGCGACAGACTAAGACGC
TGTCCCAAAAAAAAAAAAACGACAAAAAAAAAACAAAACAGAAAAAATAAACTAAGGCAA
TGACA
Sequence=12167;DNA;Homo sapiens
CTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGG
ATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAACTAAAATTTTATTAG
AAATCGCTCAGCTTACACACTCCAATCAGGAAGTTATTTAAATCACCTCAGATAAAACCT
TTGTGACCTAACCTAATAC
Sequence=12168;DNA;Homo sapiens
GGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG
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GAATTCATTCCTCAGGAGAAAAAAAATTCTGGTCTAAATTGTGGGACTCAAAGGAGACTA
GACTCTAATAGGATTGGTAGAAGAAATTACAGTTCACCACCTCCCTGTCACCTTTCCAGG
CAGGTCCCTTATGATGAAATCTCTGCTGTTCATCAGCATAGTTATCATCCGTCAGGAAGC
AAACCTAAGAGTCAGCAGACGTCTTTCCAGTCCTCTCCTTGTAATAAATCGCCCAAGAGC
CATGGCCTTCAGAATCAACCTTGGCAGAAATTGAGGAATGAGAAGCACCATATCAGAGTC
AAGAAAGCACAGAGTCTTGCTGAGCAGACCTCAGATACAGCTGGATTAGAGAGCTCGACC
AGATCAGAGAGTGGGACAGACCTCAGAGAGCATAGTCCTTCTGAGAGTGAGAAAGAAGTT
GTGGGTGCAGATCCCAGGGGAGCAAAACCCA
Sequence=12169;DNA;Homo sapiens
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TTTTAATTTTTTTTTTTTATATATTTTTAATTATAATAAATAAATATAAAATATTAATTTT
TTTAACGGGGGAGGGAAAACACATTTAAAGTTGGAGATTAAAAGAAACCGGGTATAATTG
CCCTGGGAAAGAAGGGGAAGGGAAAAAAAAGTGGGCCAAAAAGGGGGGGAAAAAAAATTT
TAAGAAAAAAAAAGGGGGGGGGAAGGGGGATTAAAAAAAGGGGGAAAA
Sequence=12170;DNA;Homo sapiens
TACTATAGGGCGAATACGACCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAG
CGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTA
CGCGGGGACTGAAGCCTTAAGCACTGTTGCGCCTCCATGTGCTTTGGATCAGCAACCCCA
GTGGTGTTCTACCAGAGCATTGTGGGAAAGCAGATGTATAGTCAGGTCCCAACAGCAAAT
TGTTGGGTGTGAGAGTTCTAAAGTATAGGGGTGAGGGAAGAGAAGGATATGAACTCCTCT
GACCTTAAGCCAGCATTCATTCAACTTTTATGTCTACTTAACAAGAGAACCTGGAGAAAA
CTACCGTATTCAAGAGATTAATCAAAATCAGTGTTTTAGCCAGGCGATGACAGAGAAGCA
CCATTCCTCACCCTCCATTCTTGTAATGTCTGTAATAAATTTCAGTGCGTCAGGATGGAT
GAACCCAAGATCCAGTGAATGATTCAGCTGTTCCAAGCCTTACATTT
Sequence=12171;DNA;Homo sapiens
GACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT

TABLE 2

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GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAATATGTTTTGACAT
ACATATATATTGTGAAATGATTGCCACAATCCAGCTAATTAACATATCCATCACCTTATA
TAGGTATTGAAAAATTAAACAAAATTAATTAATCTTTAGTCAGACTAAAAAAACATGAGT
GAAGATCTAAATAAAATTGGAAATGACAAGTTAATAGAACTGATACTGCAGAAATTTAAA
GGACATTAGTGGCTACTATGAGGAACTATTAATATATGCTAACAAACTGGAAAATCTAGA
ATAAATGGAAACATTCTGAGATACTTACAACCTACCAAAATTGAACCGAGAAGAAATTCA
AATACTGAATAGACCAATAACAAGTAACAAGATCAAAGCCGTAAAAAAAAAGGCTCCAAA
GTAAAAAATAAAAATTAAAATAAAAAAATTAAAGCCTGGGACCTGATGGCTTCACT

Sequence=12172;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA
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TTTTTTTTCTATTTTATAGTTATTTTATTTATATTCTAATCTTTATTATTACTTCATATG
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TCGAGTTAGATCTTTCTTATTTTTTAATGTAGGTATTTATCACTGTAACATTTCCCTCTT
AGCACTTCTTTTATTGAATCCTGTAAGTTTTGTTGAGTTGTATGTTCATTTTTGTTTGCC
TCAAGATATTTTTAAAATTCCCTTTTGATTTCTTCTTTTACCCAATGGTTGTTTAAGCAT
GTGTTGTTTAGTTTCTGCATTTTTGAAAATGTTTCTGTTTTCTTTGTTATTGACTTTTAA
TTTTATTCCATTGTGGAATGAGAAGATACTTGGCATTATATCAAACTTCTTAAATTTGTA
GTATGCCTTGTGACCTAAGATTTGATC

Sequence=12173;DNA;Homo sapiens

ACGACTCACTATAGGGCGAATTGCGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTG
ATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAGGTGTCAGAGT
ATGCACGGCGCTTTGGTGTTCCGGTCATTGCTGATGGAGGAATCCAAAATGTGGGTCATA
TTGCGAAAGCCTTGGCCCTTGGGGCCTCCACAGTCATGATGGGCTCTCTCCTGGCTGCCA
CCACTGAGGCCCCTGGTGAATACTTCTTTTCCGATGGGATCCGGCTAAAGAAATATCGCG
GTATGGGTTCTCTCGATGCCATGGACAAGCACCTCAGCAGCCAGAACAGATATTTCAGTG
AAGCTGACAAAATCAAAGTGGCCCAGGGAGTGTCTGGTGCTGTGCAAGACAAAGGGTCAA
TCCACAAATTTGTCCCTTACCTGATTGCTGGCATCCAACACTCATGCCAGGACATTGGTG
CCAAGAGCTTGACCCAAGTCCGAGCCATGATGTACACATTTCACTTTAAGCAGAAAATCT
TTCTTCAAGAAATGACTTTACTTTCTCTTTGCACTGCCAGCACGTGAGATACTAACTTTT
TAACTAGGTTGTCTTCTCTAGTCTCTACGTTATTAGAATTTTTTGCTTTCATAAT

Sequence=12174;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT
GGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTT
TTTTTTTTTCTTTCATTGATTTCTGCCCTTTTTATTATTTTCTTTATCTGCTTACGTTGT
GTTTAATTTGCTCTTCTCTTTCCAGTTTCTGAAGGGGAAAACTCAGGTCACTGATTTGAG
ACCTTTCTTTTTTTGTTATAATATAGGATCTTAGTGCTTAAATTTGCCTCCAAGCATACAT
TAGCTGCAACTCCGTGATTCTGATATATCGNGTTTTCATTTTCAGCTCAATGAACTTTCC
AATT

Sequence=12175;DNA;Homo sapiens

CTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGA
TATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGAACAATGGTAA
TGAGACAAATTATCAAGAAATTGGAGCTGGGATTCCTTAAAGAAAACAGAGAAGATGCCA
GACTCCTTCTGGGGGCCAAA

Sequence=12176;DNA;Homo sapiens

CACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG
GATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTGAGCTCCACAAACG
TGGCCATGGTTGGTGCGGAAATGATTCTGAGTGAGCAGGTAGAAGTCTCGCGTCCTGCTG
TGTCCAGAGTTGGTTCCTTCCAGAGGGTTCGTGGTCTCGCTGGCTTCAAGAATGAAGCCG
TGGACCTTCACAGTGTGTGTTACAGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCCTTC
AGATGTGTCTGGAGTTTCTCCCTTTTGGTG

Sequence=12177;DNA;Homo sapiens

TATACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGT
GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAACAGA
CACCAGAGGGTGCAAGAGACTGTATACTCCTGAAAAAGAAACCAGAAAACTTTGTCTGGT

TABLE 2

1967/3461

TGTGAAATTACACACATAGGCTCAGAAAAAATTCATCTCTGTAAAAGGTTTGAGAGACCG
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TABLE 2

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TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2
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GGGGACCTTAGAATTTTATTTTGTTTTAACATTCTCCCTCTTCTGGCCAAGGTTTGCCAG
AGACAGCATCAATGGCCTCCAAATGTTTATTTTGTTCCATAGCATTGCCAGGGCTAAAGG
ACTGTCTGCCTCAGGTCCATCCTGTCCCTCGGTGGGACACTCTGTGGCAGAGGGACTTAG
AGTCAAGAGACTTATAGCCAATTAAATATTCCAGGCCAGACAGGAATGAACATGGACAGG
CATTCATTATCCCGTAATTTTT
Sequence=12211;DNA;Homo sapiens
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GTGATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACGTTGCTCAGC
TCCTCCCGCTTCCTCTTGGCGCGGATGTGCGTCCCCACCCTTTTCTTGATAAATTGAGGG
CCCGTTTGTCCTTGGAGACCTTCAGTAACTCCATGGCGCGCCGCTCGTACTCGGAGCTGG
ATGAGGATGAGTCGCAGGCTCCCTATGACCCCAACGGCAAGCCAGAAAGGTTTTACTACA
ATGTGGAGTCCTGTGGCTCTCTGCGTCCTGAAACCATTGTCCTGTCAGCCCTCCCAGGAT
TGAAGAAGAAACTGAGTGATTTACAAACTCAATTAAGCCACGAGATCCAGAGTGATGTGC
TAACCATAAATTAACTGCAGCTTGCCTGCTTCAGCAAAAACGGAGATTCAGGCCAGCAGC
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TGAGCT
Sequence=12212;DNA;Homo sapiens
ATGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACATCAATATGGTC
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AAGTCATTCATGAAAAATAAGTGGTGAATTTAAACCCCAGGGCTATATTATATAGAATTA
TTTTTAAATTGAAAAGTTATGTTCACATGTTCCACTCAACAAATAAAATAATTATACCTT
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TABLE 2
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TCTAGAGGCAAATTTGCAAACTGCTTATTTAAAAATATTGTAAAAAACAAAACAAAAAGG
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TGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGG
GGTGCCTAATGAGTGAGCTAACTCACA
Sequence=12213;DNA;Homo sapiens
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AAAAAAAAAAAGTACCTGCCCGGGC
Sequence=12214;DNA;Homo sapiens
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TTCTTGTGACTGATTAAATGAGTCACACTAGTTTATATTCATATCATATATGTATAGCAT
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CAGTCTGAATCCCAAAGATGACAAACTTGGAGTTCAATGTTCAAGGGCAGGAAGCATCCA
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CCTGTTTCATATCCTAGCTGCAATGGCAGCTGATTAGAT
Sequence=12216;DNA;Homo sapiens
CGCCAGTGTGATGGATATCTGCATAATTCGCCCTTAGCGTGGTCGCTGCCGAGGTACCAA
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AACAGTATACCTATGTGTGAACTTAATAGACATTG
Sequence=12217;DNA;Homo sapiens
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CTCTTTTATATAAATCTTTATCTCTGCTTCTAACAATCTCCTTATCAGAATTTCTAACAT
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AGAAACAAGAGTCTAGTTTTCCAAACATTTTTATTCTAAAAAAGAAAAGTTAAGCTATTA
AA
Sequence=12218;DNA;Homo sapiens
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TGGTTTTCTCATGTTTTCTCCATTCATTAAAAAAGAAAAATTAAGGTCTTTTATATATTT

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ACCAAAGACAAGAAAAAAACTACAGTCTCTATTAGTAAGAATTCATGCTCCATGCATGAG
AAGTTTGACACTGTTTTAAAGGATCCTGTTCCTGCCACTTGTTGTCCCCCAGGGCCAAGT
CCTACTGACACCTGTTGGAATTTCTTGCACTTAGGAGCGGCTCTCTATGGAGAGAGGTCC
ACATCAAAATTTAGACGTTGTCACCTTTTTTGAACTAGATAAAACCAGTAAGGATACAGA
CAATAATAAAAGGCTTTCCAACTCAGCAGAATTAAGAACTAGCTCTTGGAGTATATACAT
TTGCACTCCAATATCAACACTAGCCTATCCACTTTGAGTCAAAATTTGAAAGGTAAGAAT
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Sequence=12219;DNA;Homo sapiens

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ATACGAACCATAGATATTGTCTGACAAAGCAGAAATCACCAAGTTTCCCCCTTTTGAATT
ACCACCAAGAAGTGTTGAAACACCAAATAGATATCATGTTATTTTGGGCATTTGCAGTTT
TCTTCCCTGCTGCATGTAATGTCTCAGAATCAACATTCTTTTAAAATCTAGACTATATTT
TGAGGCAATGAATTACTTATATTCAACTTAGGCTTGTTTTGACATTCAGTAGAACTTTAA
GTTCAATCTAAAGGCTTCAG

Sequence=12220;DNA;Homo sapiens

GCCCTCTACTGCATGCTCTAGCNGCCTCCATTGTGATGGATATCTGCAGAATTCGCCCTC
TCGAGCGGCCGCCCGGGCATGTACCGCATGGTATACATGAAATATTATAACCAAGCATAA
TATATCAAGGACTAACCCCTATACCTTATGCATAATGAATAACTAGAAATAACTGTGCAA
GGAGAGCCAAAGCTAATACCCCCGAAACCAGACGAGCTACCTAAGAACAGCTTAAAGAGC
ACACCCGTCTATGTAGCAAAATAAGTGGGATGATATATAGGTAGAGGCGACAAACCTACC
GAGCCTGGTGATAGCTGGCTGTCCAAAATAGAATCTTAGTTCAACTTTAAATTTGTCCAC
AGAACCCTTT

Sequence=12221;DNA;Homo sapiens

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CCTTCGAGCGGCCGCCCGGGCAGGGACTTGCTTTTTTTTTTTTTTTTTTTTTTTGGGAGAC
GGAGTCTTGCACTGTACTCCAGCCTGGGTGACAGAGCGAGACTCTCTCAAAAAAAAAAAA
TCCAAATAAAGTCTTCTGTAAAGTATGGACACCTATGCCAAGTAATGACATAGGAAAAAA
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Sequence=12222;DNA;Homo sapiens

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TTTTTTTTTTTTATTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNCGATTTATCGTTATTT
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TTATAACACATGACCAAAGATGACTTTAACACGTGCACTGTTCACATTTTGGGG

Sequence=12223;DNA;Homo sapiens

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TTTTTTTTTTTTTTGAGCAGTTAACATTCCTTTATTTTAGTTTCAAGGGCGGTGGAAGGG
AGAGAGGGAAAAGAAGATACACGGAAACTTACAGCAAATTTTTCACTGTTTATAGCTTTC
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Sequence=12224;DNA;Homo sapiens

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CTGTAACACTCTAATACCACTTTGTTGTCAGTGTAGTCAGTGTAAACAAGGGCGTATCCC
GAAAGCACTGAGGCCTTCCTATCAAAAATCCTTAACCCAGTAACCCGCAGATGGCCCAAA
TGCATTCAATCTGTAGTGGCAGCTGCTTTGCTAATGAAAAAAAAAAAAAAAAGCCATCTA
TACCAATTCTAAGTTAATTTAGACTAAACAAGGTCTTATTAATAGCAAAGGATAATTTGA
AATCCCAAACTA

Sequence=12225;DNA;Homo sapiens

GACTACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG

TABLE 2

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GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAGGATTTTGAAGAAA
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CAGCACAGGAACAGGTGGCTGTCTTAATGTCATTGATGTGCAGACAGGAATGCTCATCTC
CTCCATGACATCAGATGAGCCCCAGAGGTATAGTTTGTGAGTTACTGGGGGCGAAGACAT
TTACAGACATGTTCATGATCACTTCATTTGGGCTTACATTGGCCAGTTCAACATATCCTT
CCTTCATGATGAAGAAAGGACTATTTCTAAATCATTCTTGCAGGTGCTTTGTCTGGGATG
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Sequence=12226;DNA;Homo sapiens

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CCTCAACCTTCCAAAGTGCTGGGATACAGGTGTGAGCCCCCGTGCCTGGCCTATGTATTT
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Sequence=12227;DNA;Homo sapiens

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TTTACAAACTAACTTTT

Sequence=12228;DNA;Homo sapiens

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Sequence=12229;DNA;Homo sapiens

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CAGAACGAAGTGAAAGGAAGACCCTAGAGTGGGTCAGCTTTCTGCCAAAGATAGAGAATA
TAGCTATAGAATGCTCCCAGCCTACAGTATAGAGCTGTTGTTGGGAAGTGGCTGCTCAGC
CAGTGCCTGTATGCCCTAACCTGTCACACAGTTGGACTACATGACTAGTTCTGGCCAATG
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TABLE 2
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Sequence=12231;DNA;Homo sapiens
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Sequence=12232;DNA;Homo sapiens
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AGCTCCGCCTCCTGGGTTCACACCATTCTCCTGC
Sequence=12233;DNA;Homo sapiens
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TCATACTGGAAATTTATCTTTGGAT
Sequence=12234;DNA;Homo sapiens
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AGTTGAAAGAAAAACCC
Sequence=12235;DNA;Homo sapiens
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Sequence=12236;DNA;Homo sapiens
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Sequence=12237;DNA;Homo sapiens
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AAAAGGACACACTTCTCTGTTTTTGTTTTTTTTTTAACCAGGATGGTTTCCCGGCATTTTT
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TTCTTAAATATTGACCGGTTGGTTTCCAGGTTTTTTCCCATTTCCTTTGGCCTAATATTT
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Sequence=12239;DNA;Homo sapiens
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Sequence=12240;DNA;Homo sapiens
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Sequence=12241;DNA;Homo sapiens
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TATTGTGAAGATATGCTATAGCTGATGCGAGACTTTGAATGATCCACCTTGTCTATTCTC
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CACAAGATACATTTTCTTTGGCGTTTCAAATACTTGTTCCACATGTGTGATGTGTTCATG
TTTTACACTTTTCAGAATGTTCACCTCTCGTTCAAGTAACTTCACAGCAGAGCTTCCAGC
CTTTTCTTTGGTCACTTTTTTAATTGCCCACTTCGGTTCTGTTTCCTTGGCTGTAGTTTC
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Sequence=12242;DNA;Homo sapiens
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TGAAGATTTTCAGCGGGTTTGGATCTATTTAAAAAGCGGTAACTGCAAAGAGGCACCTAA
TCCACTTGATTTGCCTGTTTTTGAGATTCTGATTATCCTGTTACATGTACCTGCCCGGGC
GGCCGCTCAAAAGGGCTAATTCCANCACACTGGCGGCCGTTACTAGTGGATCCAACCTCG
GTACCAACCTTGGCCTAATCATGGTCATAACTGTTTCCTGTATCAAATTGTTATCCACTC
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GTTAACTAACTCACATTAATTA

Sequence=12243;DNA;Homo sapiens
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GTCACTGAAGAAGGAAACCAAAGCAAGAAAGCAAGCCAACACTAAAAATTATAACTCCAA
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TABLE 2

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TAAAAAACTCCATTCCCCTATTCAGTGCTGTGTTGGGTAGAAAAGGGGTAAGTGAACAAA
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ATCTATTACAAATG

Sequence=12245;DNA;Homo sapiens
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Sequence=12246;DNA;Homo sapiens
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Sequence=12247;DNA;Homo sapiens
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Sequence=12250;DNA;Homo sapiens

TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2
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Sequence=12266;DNA;Homo sapiens
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Sequence=12267;DNA;Homo sapiens
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TABLE 2

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Sequence=12272;DNA;Homo sapiens

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Sequence=12275;DNA;Homo sapiens

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Sequence=12276;DNA;Homo sapiens

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GTAGTAAATAGTGGATTCTCTGGTGTGTATTTTTTATCTCAGTGTTGAAAATTGGAAAAG
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TABLE 2

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AAGATACATGGGATCAAATAGCCCTTGCCTTTTCAACACAAATCAGTTGGAAAATTATGG
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Sequence=12277;DNA;Homo sapiens

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Sequence=12278;DNA;Homo sapiens

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ACACCAGGAAAACTTAAACTTGTGTGAAATAAACTGGCCAGCATTAGAGGTGGGTTGGCC
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Sequence=12279;DNA;Homo sapiens

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Sequence=12281;DNA;Homo sapiens

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Sequence=12282;DNA;Homo sapiens

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TABLE 2
1985/3461

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Sequence=12283;DNA;Homo sapiens
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CTAAAGCAGCAGGGGAAAAAAAAAAACCTTTCTTTATGCGTTTTTAACTTAGAATTATTC
AAGCAAATATTAGAAATATGTCTATGCTAATACCAAGTAGCAGTTTGACCCATGCCTGGA
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Sequence=12284;DNA;Homo sapiens
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CACTCCCCAACCCCCCAGCCAAATGAAATGGCTTTGGTTATGTTTCTTTACTTTTTTTTT
TTTTTTTTTTAATACAAACAACTTGGGGAAGGTAGATAAGTGCAATGGGAGGGAGGATTG
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AAAAACTTTATTCTTTAGCATTTTATTTATATTTCTCTGTAGGGTGTTCCCTGTGACATT
GTCTCTTTAGTTTGCTCTTTCAAGAGATACTTACAGAAGTTGAGATGGCTGCCCTGCATT
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Sequence=12286;DNA;Homo sapiens
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TABLE 2
1986/3461

AGCAGCAAACAATAGCACCCTACATATAGGGGAAAAACAGTTCTAATGATAGCAGATNTC
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Sequence=12289;DNA;Homo sapiens
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Sequence=12290;DNA;Homo sapiens
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Sequence=12293;DNA;Homo sapiens
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Sequence=12294;DNA;Homo sapiens
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TABLE 2
1987/3461

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Sequence=12295;DNA;Homo sapiens
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Sequence=12298;DNA;Homo sapiens
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TABLE 2

1988/3461

ACCATCTTGGTTACTGGGCTTTAATTGGGACCAAATTTTATTTAGCTTAATATGGACACT
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Sequence=12301;DNA;Homo sapiens
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Sequence=12302;DNA;Homo sapiens
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Sequence=12303;DNA;Homo sapiens
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Sequence=12304;DNA;Homo sapiens
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Sequence=12305;DNA;Homo sapiens
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CAGTGTAAATTTGTTTGTATCCATACT

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Sequence=12307;DNA;Homo sapiens
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TABLE 2
1989/3461

Sequence=12308;DNA;Homo sapiens
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TABLE 2
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TABLE 2

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TABLE 2

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Sequence=12343;DNA;Homo sapiens

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GCTTTCTTTACATTTTCAAATAAAATTAAAATGCTCGAGCACTTCCTTTCAGAAAGTTAT
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Sequence=12344;DNA;Homo sapiens

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TCCCCTTTGCGGATGGGGCCTTTTCGGGAACGTCGGGGGGGGGCCCAAGCCGGGGGGGGC
CGGGTAAGCTTTTTTGGGTCGAGACAGGGGGGGGGGGGTTTGGGTTTTTTCCAAACCCCA
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TABLE 2

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TGGGGG
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CAGCCCTGTCCTCACTGAACCCCACCTACTTGCCCTGGATCG
Sequence=12346;DNA;Homo sapiens
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Sequence=12347;DNA;Homo sapiens
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Sequence=12350;DNA;Homo sapiens

TABLE 2
1996/3461

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Sequence=12352;DNA;Homo sapiens
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GAACTATTCTCATTGCCTGGGAATTACTCATCTTACCTCAGCTGCTGCCCCTCTACACAG
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CGCCTGAGTG

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TABLE 2
1997/3461

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TABLE 2
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TABLE 2
1999/3461

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Sequence=12374;DNA;Homo sapiens

TABLE 2

2000/3461

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Sequence=12375;DNA;Homo sapiens

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ATAGTTATTTTTAAAATACCTTGAAAAACTTTAATACAATTTTTAATATATTAAATATTC
ACCTGAACTCTCAGCCATTTATCTCCCATCTCTCTTTGCTAGAATCTTGCCTTACCATCA
CTATCATTCTTTTGTTTTTTTTTCTTTTTGGCATCTTTAATGCTTATCCCAGAAAAGCAT
TAAAAATAAAATATTTTTCTTTAAGTCCACAATTTAAAAAAAAAAGAAAGAAAAAGGAAA
AGCCATTGACAGTATTTGACACGACATTGAAGATTCTTATTAAACCAGCCTCATCTTGTT
TGCCCACATCCAAAACTCTTTAGTAAATATCAGTTCTTGCCCTGAAACTGGTAATACTGA
CCCAATAGCATCCTCTAGTGGCCAAACTGTAGCAAAGCACCCAATGATGCANGAAGGTTT
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CAAAAAAAAAAAAATTTTT

Sequence=12376;DNA;Homo sapiens

ACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATA
TCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATCCACTCAATA
CTTGTGTCTCACTTGGCAATTGGCATACGTGACTGTTCCTCTATTTTTCCATCTACCTAA
TTTCACAGGATTTCCAGAAGGAAAAGAAGATTTACATGCTTCATTTCAAATATTTCTGAG
TTTTGACAAAGGTGCCAAGACCACACATTGGAGAAAATACAGTCTTTTCAATAAATGGTT
CTGGGAAAATAAAATATCCACATGTAGAAGAATGAGATTACACCCCTGCGTCTTGCAATA
TACAAAAACCAACTCAAAATGAATTCAAGACTTAAATGTAAGATGCAAAACTATGAAACT
ACTAGAAGAAAACATAAGGGGAATACTTCACCACATTGGGCTTGGCTAAGATTTTTTAAA
TAACACCTCTTAAATACAGGCAACAAACGCAAAAATAGACAAATGGATTATATCAAACTG
A

Sequence=12377;DNA;Homo sapiens

GACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGAT
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AGTATTTCACAGTTATTATTATTTAAAATTACTTCAACTTTGTGTTTTTAAATGTTTTGA
CATTTCAATACAAGATAAAAAGGATAGTGAATCATTCTTTACATGCAAACATTTTCCAGT
TACTTAACTGATCAGTTTATTATTGATACATCACTCCATTAATGTAAAGTCATAGGTCAT
TATTGCATATCAGTAATCTCTTGGACTTTGTTAAATATTTTACTGTGGTAATATAGAGAA
GAATTAAAGCAAGAAAATCTGAAGTATTGTCTTGTTTTTAAAAAATACAGTTCCTAGTGT
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GCAAGGCAGTAATTTCCTTTTGGAAAGGACTCTGAAGGCAGAAAAGAAGGGAGAGAACCT
CATGGGCAGAATATTATAAAAAGAGTGTCATATTCCAGCATTTGAATTGGAAAGAGAAGA
GTGAAGATCCAAGTTGCATTATTAATCTGCCCTGTGTTTTTTCCTTTTAACAATCAGTTT
GAGCTGGTGCTGTTATGAGTTTCTCATCAAGATGAAAGCCCTAATATGTAAAGTCAAATC
CGATTTAAATTTTG

Sequence=12378;DNA;Homo sapiens

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TAAAGGGAAAAGTAACTGGAGTGTTTTAAATAATGAGCATTAGTTACAGGATGAAAAACA
GGAAATACACAAAGAAAAACATGCCAGAGGTAGGTGCAGGCCCATCTTATATGAGAAGCA
GGGTTCTAGGCCGGGCGCAGTGGCTCAAGCCTGTAATCCCAGAACTTTGGGAGGCCGAGG
CGGGTGGATCACGAGGTCAGGAGATCGAGACCATCTTCGCTAATGCGGTGAAACCCCGTC
TCTCCTAAAAATACAAAAAAAA

Sequence=12379;DNA;Homo sapiens

GGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATCTGCAG

TABLE 2

2001/3461

AATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTCTTTAGTGAAGTGAATGTATGG
TTTTAAGGACATACAACCACCGGTTGACGAGGTCCAGCCTTGATATTCAGTTGTCCACAC
AACATCATTCCAGCTATGGCAGACGTGTTTTCCTGCATTCGTTAAGGAACAAGGGTCTTG
ATAGGGGGAGCCTTTTATCTTAAAGGGGCAGAGATACTTCTCTGAGTCTGAGAGTTGCTT
TTGACTTTGGAGATCTCCACAGGGTATGACAAGACATGCATCGAAGGTAATAGTTTGGGG
TGAGCTTGACCTGTTTACATTAATAATGAGGTGGTCAGCCATAGAATGAGGAAAGAAGAA
GGAGTAATAGAATAGATGAAGGAGAGTTAAACTTTTCTTAGCGTTAGTTTGGTAGGGTTT
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T

Sequence=12380;DNA;Homo sapiens

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TTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTT
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TTTATTATATAAAAGAGGAAAAAAAAATTTTTGGATATAAATATAAAAAAAAATTGAAAA
AAAATTTTTTTTCAAAAAAAAAAAAAACAACCATTGTAAAAAAAAAAAAGGGGGGGCCGA
AGCAGTGAAAAAAAAAAAAAACCCTTTTTAAAAATTTTTTTTAAAAAGAAAAAAATTTTT
AAAAAACAATTTTAAAAAAAATTTTTGGGGAAAAAAA

Sequence=12381;DNA;Homo sapiens

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TTTCCTCATCTGTAAAATGAGGATAATAGATAGTATGGACCTGTTGCAAGGATTAAACAT
AATCAGTGTAAAGTGTTGGTCCCATGCTTGCCACATAAGAAAATATTTGTCAACAGAGTG
GTAGTTGTCATTACCATTGTCTCAGTTTGCCTGTAACTAGTTGTGTGATCTGAGACAAAC
ACTAATTTTGAACTTGAGTTTCCCCACATGTAAAATGAAAGATTGATAATAGAAAGTAAA
TCAATTTTTTCTAGCATTAAAAATAGTATGCATTTAATAAAAATCTTATTCTTAATGATC
TAGCTTACCTGCAACTTGCCCTAGTCACTTTGGCGATCTTGTCTCTAAATAGAACCTAGA
AAACACTTANATGTGTGTTTCCTTGCAATATAACTNTTTCTTTTTTTATTTAGATAAGTC
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Sequence=12382;DNA;Homo sapiens

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GGGTTTTGCTATGTTGCCTGGGCTGGTCTAAACTCCTGGCCTCAAGTGATCCGCCCGCCT
CAGCCTCCCAAAGTGCTGGGATTATAGGCATGAGCTGCTGCGCCAGGCCTTAATTTTTTA
AAAACAATGATGGGGTGGGGGTGGGGGACAGTCCACAAAAT

Sequence=12383;DNA;Homo sapiens

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ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGGAG
CGCCAGTTCCGTCTGTGTGTTCGAGTGGACAAAATGGCGAAGATCGCCAAGACTCACGAA
GATATTGAAGCACGGATTCGAGAAATTCAAGGCAAGAAGGCAGCTCTTGATGAAGTTCAA
GGAGTGGGCCTCGATTCTACAGGTTATTATGACCAGGAAATTTATGGTGGAAGTGACAGC
AGATTTGCTGGATACGTGACATCAATTGCTGCAACTGAACTTGAAGATGATGACGATGAC
TATTCATCATCTACGAGTTTGCTTGGTCAGAAGAAGCCAGGATATCACGCCCCTGTGGCA
TTGCTTAATGATATACCACAGTCAACAGAACAGTATGATC

Sequence=12384;DNA;Homo sapiens

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TTAGGCTAAAAAGCATAATTTCAACAACTAAAATGCTATGCTTTATTATGAATTATTGAT
TTACTTAATATATTATTTATTATATTTCAGGTTTGAAGAAACTGCAGAGTTACTGAAATG
TCCAAATCACTACTTGTAGGATTTTCTACATGAACTTTTTTCTAGGACTTTGGTTACTAT
ACATATTGTATATTTTAAGAATTCTTTATACAATTTTAATATACTGCAATACTGCAGTTT
TTGACAATTTGGATTCCATTTGGTATATGAAGTTTAGCATTCATTATTGAATAACTCTTT
TAATATTTTTGACCAATGATTATACTGCTTTACCTTGTGTCACTTTTTTTTTTAGGAAAAA
CTCATG

Sequence=12385;DNA;Homo sapiens

TABLE 2

2002/3461

TACGACTCACTATAGGGCGAATTGTGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT
GATGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCAGGATAGTGGG
GCACTGTTATAAAGATACTTGAAAATGTAAAAAGAACTTTGGAACTGGTTAGCAAGTAGA
GGTTGGAACAGTTTGGAGGGGTCAGAAGAAGATAAGATGACGCAGGAAAGTTTGGAACTT
CCTTGAGATTTTTTTGAATAATTTTGACCAAAATGGTAATAGTGATATGGACAAGAAAGT
CCAGGGCGAGGTGTTCTCAGGTGGAGATGAAGAACTTATTGGGAACTGGAGTAAATGTTA
TTCTTGCTAAGCTTTAGGAAAAGACTGGTGGCATTGTGCCCCTGTTCTAGGGATCTGTGG
AACTTTGAACCTGGGAGAGATGATTTAGTGTATCTGGTGGAAGAAATTTCTAAGCAGTAA
AACATTCAAGATGTGGCATGGCTGCTTGTAACACCCTAGCTCAGATGTGTGAGGAAAGAA
ATAAACCTAAGTTGGAACTTATATTTAAAGGGGAAGCAGAGAAATTAGGAAATTTTGCAT
TGTGGT

Sequence=12386;DNA;Homo sapiens

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ATCACACTATTTGTCCTGCTAAATGCAAGTTAAAAGATACTTATGGATGCCACTACCACA
TATTCTGACAAATAAGGGAAACACTAGGCTTTTAAAAGATTCTTAGAGTGTTTTCCCTAT
ATTGCACTTTCTAGATAACACAATTTTAACAATGATATAATGTGATCTTGGTTCTAGACA
CAGCAGTGGGGAACACATGAATTTACCTTTTTCTTGTTCCTTTTCTTAAAGTTTTTAGTA
TAGTCTCAAGAATATAGCAAGGAGAAATAACAAAATATACATGTGCTTTGGGCTTCTGAG
GAAAAAAGACCACCCACACACATTTTTAAAAGACTAAAATAGACGTCTCTTCTGCTTTAG
CCATTTCATTTTCACAACTGAAAATAAGGAACTACTATATATTTGATGTCCCTAACTCAT
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ATTTGT

Sequence=12387;DNA;Homo sapiens

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CAGGGACCAGTGTCTCCAATTTGGATCCCTTTCTGTGTGTCAGGGGCATCCAATCTTTTG
CTTCCCTGGGCTGCACTGGAAGAAGCATTTTCTTGGGCCACACATAAAATACACTAACAC
TAACAATAGCTGATGAGCTTAAAAAAAATCCCAAAAAAACTCATAATGTTTTAAGAAAGT
TTACGAATTTGCGTTGGGCCGCATTCAAAGCCATCCTGGGCTGCATGCGGCCTGTGGGCT
TTGGGTTGGACAAGCTTGCATGTGACTGAGTTTGTTCTTAAACTGGTAAGGAAACTTTGT
CAGGCAGTATTTATTTCCATAAGTGGTGTTTTCCTACGAATCAGCACATGGTGAAAAATG
AGGGGCTATGTATATTTAAGGTGCAAAATTAAATTGGGTTAAATATCTTTTCTATTCTGA
GCTTTGATTTTGATACCTTAAAGGAAATATCAACAG

Sequence=12388;DNA;Homo sapiens

CCCAGTCTGGTGATGAATCCTCCACAGTCTGGTGAGTGTAAATGTATATAAATGTATGTA
TATACTTTTTCCCTTCTCCCCTTCCCATTAAAATTTGTTTGTTGTATCATTTGCTTATTA
TATCTATATTGCCATATACTCGGGGTAAAGTCTGTTTACCTTTAAAAGTATTGTGTGTTT
CTTTTCTTTCCTCACACGTTTCCCACACAGAACACACATATGCACCATGGAATACTATGC
GGCTACGTGTTCTCACTTGTAAATGGGA

Sequence=12389;DNA;Homo sapiens

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AGAAGAGGATCCACACGCGGAAGCCAGCGTTGTTTTAATGGCCTCTCTTATGTCTTCGTT
GCCTTCCTTGATATTTTCAGTTGCCCCCACAACTAACTGGTGAATGCTGTCAATCTCAGC
TTCCTGTTGCAAAACCTTTTCCGTGAATATCTCTTGGAGTCTGGAAATCTCAACCACTCT
CCCTTCGATTTGCCTCACTTCATCAAACAAGCTGTTCATTTCACCAATTAGTCGCTGATT
TTCCTGTTCAAACATTTGTATTTCTTCTGGGGATAACTCATCTTCGCCTTTGCCATCTCC
CCACGTTCCCAATTCAGGTTATGTTTCAGCCAAAATTTTTTCTGGACGTTCTTCAGTGGC
AGGGTTTTCTTCAGAGTCTTTTGAAGGACTCTGTGAAACTTTCTCAGAAGATGTGGATTC
TCTTGTCTTTGTATTTGGTTCTGGTTCCAGCTTAGATAATCTTTTCTTATCCACCACTCT
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AATGAAATCCAAAAACAGCGTCCTGTGCTCCT

Sequence=12390;DNA;Homo sapiens

TABLE 2

2003/3461

CACTACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATG
GATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACCAGCATTCCAGCTCC
AACCATGGCTGCAAAGGTCACACCAATTGTCACCCAAGAGCCTCTCATCATGAAGTTCAT
GAGAACAGGCGTTCTGCTGATTGCTATGGCAGACAAAGCTGTTAAACCAATACTCCCTGC
TAAGTACGCGGGTCACTCTCTGGGGGTGGGACTTTTAATACATCAATAACTTTTAAAACT
TTCTAGGTCATTCTGATGTGCAGCTGAGTTTGAGATCTAATAAGTTAAAGATACTAAAAA
GAAGCAATCGACCAAATCCAGAATGTGAGGCATTTTATAAAACAGAAGGTTCAAGTTCCT
CAACAAATAAATGGCATTTTTACCAAAAGGAGTGGGAGGGAATGGGAACTGTCATAGATT
AGAAGACTGAACAGACTTATCAAATAAATGCAAATGGTGAACCATATTCGGACCCCACTG
AAAAACAACAACTGTNNAAAAAAAAAAAT

Sequence=12391;DNA;Homo sapiens

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TTTTTTTTCTTGAGACAGGGTCTCACTCTGTCACTCAGGTTGGAGAGCAGTGGTGTAATC
ACAGCTCACGGCAGCCTTGAACTCCTGGGCACAAGTGATCGTCCTGTCACAGCCTCCTGA
GTAGCTAGGACTACAGGTGCATGCCACTATGCCTGGTTAATTTTTTAAATTTTTGTAGAG
ACATGGTCTCATTATGTTGACAAGGCTGGGATGTTCCCCCCACCTCCTGTGAGAGTCTCA
TTGTCACCCAGGCTGGAATGCAGTGGTGTGATCTTGGCTCACTGCAACCTCCGCCTCCCA
AGTTCAAGTGATTCTTGTGCCTCGGCCTCCCAAGTAGCTGAGATTACATGCGTGCGTCAC
CACACCTGGCTAATTTTTGTATTTTTGGTAGAGACGGGGTTTCCCCATGTTGGCCAGTCT
GGGCTCGAACTCCTGACCTC

Sequence=12392;DNA;Homo sapiens

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CTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTT
TTTTGGAGACGGAATCTTGCTCTGTCACCCAGGCTGGAGTGCAATGGTGCGGTCTCAGCT
GACTGTAACCTCCGCCTCCTGGGTTCGAGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGG
GACTACAGGCACCCACCACCACACCTGGCTAATTTTTTTTGTATTTTTAGTAAAGACGGGG
TTTCACTATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCGTGATCCACCCACCTTGGC
CTCCCAATCTTATTTGCTTTACAAGTCCTGCTTCAGGGTTACCTTCCCTGACCACTGCTG
CCTCCCTCCCAGCATTTGCCAGGGACTGTCATTGCCTTAGTTTATTTTTTCTGTTTTGTT
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GTGCAGTGGTGC

Sequence=12393;DNA;Homo sapiens

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CAGATAAGACCATTTCTGAGAAATTGACAGGTGTCTATAACTCACAATATAGCTTTCCAA
AAATACTTAGGATCTCAGTACTTTTTTTTTTTTTTTTTTTTTTTGCAGTCTGCTCTTTATT
TGAATGGAGAATGGAAACAGGTTATAAGAATATATAACATCCATGTTCAAGAGTCACTGA
GTTCTGGAGGGCAGAGGGAGCACAGAGGCCTGCTGATTCCAACAGGGCTCCTGAT

Sequence=12394;DNA;Homo sapiens

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TGAATTGCTGCCTAGAAATTAATGATAACAGGAAAGCCATCATAGAAATAGCTGCCAGGA
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ATTAAAAGGTTGCTTAATGTTCCCTTGCCTCTTAGGCCTCCTCATCAGAAACATCCAATC
AATCACAGAATCCATCGTTAACAGAACCACCTCCACTCCACTGATGACTCTAAACAAGTA
TC

Sequence=12395;DNA;Homo sapiens

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TGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACTGAGCTCCACAAACGTGGCC
ATGGTTGGTGCGGAAATGATTCTGAGTGAGCAGGTAGAAGTCTCACGTCCTGCTGTGTCC
AGAGTTGGTTCCTTCCAGAGGGTTCGTGGTCTCGCTGGCTTCAAGAATGAAGCCGTGGAC

TABLE 2

2004/3461

CTTCACAGTGTGTGTTACAGCTGTTAAAGATGTTGTGTCTGGAGTTTGTTCCTTCAGATG
TGTCTGGAGTTTCTCCCTTCTGGTGGGTTTGTGGTGTCGCTGACTTCAAGAATGAAGCCG
CAGACTGTCGTGGTGATC

Sequence=12396;DNA;Homo sapiens

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GCGGCAGAGTGCGGCGCAGCGCAGCTCCTGAGGTTATGGTTATGAACAGGATTCGGATTC
ACGTCTTTGCCAACCCAACGGGGGGAGGATCACTTCCAGTTCCCAGGTCTCAAGAACCTT
TGTCTTGTGCATTCACTCATCGTCCATGCTCTCACCCTCGTCTGGAGGGGCATGAGTTTT
GCATTAAGCATATACTTG

Sequence=12397;DNA;Homo sapiens

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CCTGGGGGACAACAAGTGGCAGGAACAGGATCCTTTAAAACAGTGTCAAACTTCTCATGC
ATGGAGCATGAATTCTTACTAATAGAGACTGTAGTTTTTTTCTTGTCTTTGGTAAATATA
ATAAAAGACCTTAATTTTTCTTTTTTAATGAATGGAGAAAACATGAGAAAACCAGATGGA
CCTGTTAGAACTGTAGTCCTCCTTCATTTTTGGATAATGAATCCTCCACATTTAAGGGAT
ATTAGATCATTCCTACCAATAAAAAACTATTTATTTAAAAATGAAAACTAAGCCTTTGTG
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TGCTTATATCTACCTTCTTTATTATGATCTGGCCTTTTCTTCTGAAA

Sequence=12398;DNA;Homo sapiens

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TGGCTCTGAACATCATTCAGAACAGGAACATGGGGAAGCCAGCCCAGCCTGCCCTGAGCC
GGGAGGAGCTGGAAGCACTCTTCCTCCCCTATGACCTGAAGCGGCTGGAGATGTATTCAC
GGAATATGGTGGACTATCACCTCATCATGGACATGATCCCGGCCATCTCTCGCATCTATT
TCCTGAACCAGCTGGGGGACCTGGCCCTGTCTGCGGCTCAGTCGGCTCTTCTCTTGGGGA
TTGGCCTGCAGCATAAGTCTGTGGACCAGCTGGAAAAGGAGATTGAGCTGCCCTCGGGCC
AGTTGATGGGACTTTTTAACCGGATCATCCGCAAAGTTGTG

Sequence=12399;DNA;Homo sapiens

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GGCCGGAAGATGGCGGCGGCCGCAGAGTTGTCGCTACTGGAGAAGTCCCTGGGACTGAGT
AAGGGGAATAAATACAGTGCTCAGGGCGAGCGACAGATTCCAGTTCTTCAGACAAACAAT
GGTCCAAGTCTAACAGGATTGACTACTATAGCAGCTCATCTAGTCAAGCAAGCCAACAAA
GAATATTTGCTGGGGAGTACAAAGAGAGGAATTTTACAGCTGGGCTGCTGGCGGTGACAT
CACATGTCAGTAGGGCCCTGAT

Sequence=12400;DNA;Homo sapiens

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GACAATTTATGTGGATTTTGCATGTAATACACAGTGAGACACAGTAATTTTATCTAAATT
ACAGTGCAGTTTAGTTAATCTATTAATACTGACTCAGTGTCTGCCTTTAAATACAAATGA
TATGTTGAAAACTTAAGGAAGCAAATGCTACATATATGCAATATAAAATAGTAATGTGAT
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GAAATGAAAATTTAATTTTGTTTTTAAAATATTGTTTATCTTTATTTATTTTGTGGTAAT
ATAGTAAGTTTTTTTAGAAGACAATTTTCATAACTTGATAAATTATAGTTTTGTTTGTTA
GAAAAGTTGCTCTTAAAAGATGTAAATAGATGACAAACGATGTAAATAATTTTGTAAGAG
GCTTCANAATGTTTATACGTGGAAACACACCTACATGAAAAGCAGAAATCGGTTGCTGTT
TTGCTTCTATTTCCCTCTTATTTT

Sequence=12401;DNA;Homo sapiens

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GTTCATGTTCTACTTTCTATATTGTCTTTATTTTTCTTGGGGCATTCTTTGTATGTCTAT
AGAGTTTTTGAATGGCTTTAAAGGTCTTTGGGTCCAACCCGGCATTGACTGGCTCAGTGT
AGTAAGGGCCAAACCGTTTCTCATACAAGAGGTTGGCCACCATGCTCATGAGGGTACCTC

TABLE 2

2005/3461

GGACGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGACGTTACTAGTGGATCCGA
GCTCGGTACCAAGCTTGGCGTAATCATGGTCATA
Sequence=12402;DNA;Homo sapiens
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TATAATCTACAAGGGATGGGAGGGTTTGTTTTCCACATTTTTACCCTCAAGTTTTAAAAT
TTTTCCCACCTCCTTTTTACCTACAGAGCTCAAACTAAATAATGCACTTTTGAACCACCG
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ACTGTCTCAATTATTTTTTCCTTTTTTTTTTTCTATAAAAAGTCAAATGATACCCGCGTAC
CTCGGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATC
CGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTT
ATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAATGTAAAGCCTGGGGTG
CCTAATGAGTGAG
Sequence=12403;DNA;Homo sapiens
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AACAAGTCAGTCATTTGTGAACTTAGTGGACTTTTTGGTTACTTTAATTGCATATATTCT
CCAGTTACATCGGACTCTATCTGTGGCCTTGTTCTTCATTTCAGTGTTAATCAGCTAAAC
AGAAGTTGTTGCTTATGATGTGTGAGTGAACATATGCCACTGCCTGGCCTTTTTTTCTTC
AGAGCTTGTTGTCTTTTTCGCTATATTAGACTTTGCAGTATGCCCAGAAGCTTTCCTTCA
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AAATCTGTAAGAAAATTTCTTGAATTCTAAATATTACTCTTTCTAGATTTTTGAAATCAA
AAAGTTTTCAGTAAAAAGTTTCTTACTTTATTTTATTATATTAGGTAGTAAAAAATGTAG
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AGTAGGATTCTAGCATACCGTGTAGTACTNTTTTTTTTTTTTTTTTTTTTTACATCAG
Sequence=12404;DNA;Homo sapiens
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CCCCAAAGCCTAGATGAAGATATCCTTTGGAAAACTGCAAGATGTTTTCCTTAAAAAATT
TATACATCTTTCCCCCTAAAGAAAAGTCTATGTAGTGTAGGGCAGCTGAAAGTCAAGCAG
AAAATCAGAGTCTTACTGGCTTGAAGTATCAGGGGATGGAAGTTAAGTGGCCAGAAATAG
GATAAATCGCAGAAAGGAGGGAGTTATGGTAAGTAACTTCCAAAAATCTGTGGGTAAACT
CCCTTCAGATATCTAGATGTCCCCTAGAACTGTGCTTGGGAGATTCCAAGGAGTTCAGTG
GAAAACAACAGCTGGCAGGCAGAAAAATCTAAATAGAGATTNTAGCTAATGGCTTCTGCA
GGGGTGACAGAATTTGGTGTTTGATTCCCAGCAAGATAGAAGGGATTGGTAAACATGGGT
GGTTTCCACAGATCTACTC
Sequence=12405;DNA;Homo sapiens
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GTATTGTTTTGTTTTAATGCCCAGATAGCACAGCATTCCTCCTTTACTTGCCTTTTCAAA
AGCCCGTAATCAATATCTGTAAAAGTTAAAATTAGTTTCCACAGAAACATTGATTTCAAA
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Sequence=12406;DNA;Homo sapiens
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TTTTTGCACAATGAAATACATTACCTCTTCAAAAAAATTTTTGTGAATTAATCAAAACCA
TTTGATATGAAAATAAGAATAACACACTAAAATGATATGCAGCAGACAGGTCGCAAACTT
GGAGTGATATTTACAATTCAAAAACCTAAATGATTAATGTCAAAATACATAAAAGACTCC
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TABLE 2

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Sequence=12407;DNA;Homo sapiens
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TABLE 2

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Sequence=12414;DNA;Homo sapiens

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Sequence=12415;DNA;Homo sapiens

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TABLE 2

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Sequence=12420;DNA;Homo sapiens
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TABLE 2

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Sequence=12431;DNA;Homo sapiens

TABLE 2

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Sequence=12433;DNA;Homo sapiens

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Sequence=12434;DNA;Homo sapiens

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TABLE 2

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Sequence=12439;DNA;Homo sapiens

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GCGAGTGAAGATCAGCTATCTAATGATTGCCCTGACGGTGGTAGGATGCATCTTCATGGT
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Sequence=12440;DNA;Homo sapiens

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Sequence=12441;DNA;Homo sapiens

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GCTTTC

Sequence=12442;DNA;Homo sapiens

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TABLE 2

2012/3461

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Sequence=12443;DNA;Homo sapiens
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TABLE 2

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Sequence=12449;DNA;Homo sapiens
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TABLE 2
2014/3461

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TABLE 2

2015/3461

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Sequence=12461;DNA;Homo sapiens
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TABLE 2
2016/3461

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CCCGGAGCCCACGGTGGTCATGGCTGCCAGAGCGCTCTGCATGCTGGGGCTGGCCTGGCC
TTGCTGTCCTCCAGCTCTGCTGAGGAGTACTTTTTTTTTTTTTTTTTTTTTTGACAGAGTC
TCACTCTGTCACCTAGGCTGGAGTGCAGTAGTGTGATCTTGGCTCACTGCAACCTCCACC
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CACCACCATGCCTGGCTAATTTTTGTATTTTCTAATAGAGACGGGGTTTCACCATGTTGG
CCAGGCTAGTCTCAAACTCCTGACATCAGGTGATCCGCCCTCCTTGGCCTCCCAAAGTGC
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Sequence=12473;DNA;Homo sapiens
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TABLE 2

2017/3461

ATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATACCA
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CTGATGGACTGTGATTTTATAAGGTGGTCTCAGCCAATTGCAGCAGCTGTTCCCTGTCAG
AGGGGCTAGAGGTTTGGTGAGAGCAGTGGATGAGGTGCAGTGGTGTGTTTGTTCACTAGA
AGCAAGTGGGAGAAAGCTTTGCCTCTTTGTACCTCGGCCGCGACCACGCTAAGGGCGAAT
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ATGGTCAT

Sequence=12474;DNA;Homo sapiens

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ACTACAGTGCCAACCAGTATGAAAAGACTTTCTCATCCAAGTATCTGCAGAACTGGTCTC
CCACTAAGCCAACAAAAGAGAGCATCTCTTCTCATGAAGGCTACACTCAAATTATTGCCA
ACGATCGTGGTCATCTACTGCCTTCTGTGCCCCGTTCCAAGGCAAATCCTTGGGGTTCCT
TCATGGGCACCTGGCAAATGCCTCTGAAGATACCCCCTGCTCGGGTGACCCTGACCTCCC
GTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAG
TGGATCCGAGCTCGGTACCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAA
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Sequence=12475;DNA;Homo sapiens

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TAGTGTTGTTGATGTTAATAATTTGCTTGGTTAAAGAGCTCTCTGACTTTTTTTCACTAT
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Sequence=12476;DNA;Homo sapiens

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Sequence=12477;DNA;Homo sapiens

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GAAATCTTAAGCAACTTGCCCAAGGGCATGTGGAGGAGGTTTATTTAAATGTAACC

Sequence=12478;DNA;Homo sapiens

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CGTCACCAGTAACCGTATTTGAGGTCCAGGAGAATGAACGACTGGGTAACAGTATCGGGA
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Sequence=12479;DNA;Homo sapiens

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AATG

TABLE 2

2018/3461

Sequence=12480;DNA;Homo sapiens
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ATTTCACCAGGGACTTGGAATCCATTAGAAAACCATCAAAGGGAAATCCTAAACCTAAAA
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CAGAGGATTCTTAAAATGGAAGACTGGTTACTAGAAAGCATCCAAATGAATACACAAAAA
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Sequence=12481;DNA;Homo sapiens
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ACTACAATTGTGCATTCAGACATGATAATTCCTACTAACTGGGGGTAGGAGGGCCCACAG
GAGTGTAGACTAGAAGTAGAAAGAATGAGGAAAATAAGTCTTTTGTAGCTGTATGGCGAT
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TCTGACAAAGCCGCCAAAATCTTTCAATGTCCCTAGGAATAAAGTTGCCCTGAGTAGGGC
CACTCAGGATGACGCCAGATGATATCCCTTATTATAGTTTTAGGGGAATCTCTTCCTACC
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Sequence=12482;DNA;Homo sapiens
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CTCATGAGCTCTGGCATGCCATGAAGGGAGTAGGCACTGATGAGAATTGCCTCATTGAAA
TACTAGCTTCAAGAACAAATGGAGAAATTTTCCAGATGCGAGAAGCCTACTGCTTGCAAT
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CTTATGAACTTG
Sequence=12483;DNA;Homo sapiens
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ATGGGATAATATGTTTAATGGAAAAGATAAGAAGCTCAAGGACTAAGCCCTGTGGCCCTC
AGTTAGAGGTTTAAATAATAGAAGGAATGGCCAGAAGTGTGGAAAATAAACTAGTGAATT
GTGGTCCCGCGTACCTGCCCGGGCGGTCGATTCAAAGGGCGAATTTCAACACACTGGCGG
CCGTTACTAGTGGATCCAATCTCGGTTCCAAGCTTGGCGTAATCATGGTCATAGTTG
Sequence=12484;DNA;Homo sapiens
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CTGTTTCTCTATCAAGAAGAAGACAGAGATTTTAAACAGATTGTAACCAAGAGGGGACTT
CCTAAGGCACATGCCTTAAGACCTATGTGGGCATTCAAGCCTTTGGGGCCTGGGAACACA
CACATTCGGGTGCTCTGCTGAATGAGAGCTTGTGGGTTAGAGGAACAAATATCTAGACAT
TCAATCTTCACTCTTTCAATTGTGCATTCATTTAATAAATAGATACTGAACACAAAAAAT
AAAATTGCAAAA
Sequence=12485;DNA;Homo sapiens
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CTGAGAGACTTATTTGACTGACCCAAGCCAGCTCTAGAAACATTTGAAGCCTCATGTTTC
CGTCTGGCCTGGAGGACGCTGAGCTTACAGAATTCCAAGCCAACGCAGAGACTTTTCTTT
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TTGTTTTTTTTTCCTACAGACTTGTGTTTCAGGAAAAAATAATCAGTGTCAGGCAATTGT
TTTCAGGGAGTGTGGTCTTCTGTGTATGTTTTTAAAACTTCAGGTAAGAAGAGTAGACCA
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Sequence=12486;DNA;Homo sapiens
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TABLE 2

2019/3461

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GGAGAAAACATAGCCCCAGACTCTTCTTTCATTTGTCTCATACCGATTCTCTTTTTCTTT
TTCTTCCTTTATTCTCTGCTCTAACTGTGTTTGGATTTCTTATTGGGCCCGCGTACCTTT
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Sequence=12487;DNA;Homo sapiens

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Sequence=12488;DNA;Homo sapiens

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TGGGTGACAGTGATGCCAGGCTCGCCCACTACTGCACTGGACACAGCCTCACCAATGCCA
CCTTCATAATAATGGTCCTCCACGGTGAGGATCCTGCCCTTGGTGGCACGAGCGCTGTCG
AGAATGAGTTTTCTGTCCAGGGGCTTGATGGTGAAGGGGTCCAGCACGCGGATGTTGATC
TTTTCTTTCTTCAGCAGTTCGGTAGCCGCGTACTGTTTTCTAACTGAATAATCATGAGCA
CATTACTTAACCTCTCAGAGGCTTAATTTCTTTATCTATACATGGGGTCAATAACGTTCT
CGTGTTGAGTTATTGGTACAGCTAACTAGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGA
ATTCCAGCACACTGGCGGACGTTACTAGTGGATCCGAGCTC

Sequence=12489;DNA;Homo sapiens

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GTGAAATCTTCCATTTTTACCGTTATTTTTTAAAACACTTTCCCTTTATATTCTTGAACA
TATTATAATTATTTCAAAGTCCCTTGTTAATTCAAACATCTGGATCACTTGAGGGTCTCT
TTCCGTTATCTGCTTTCTTCATTTTTTAGCTATGTTCCTGTCTCTTGGCATAGCTATTTT
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Sequence=12490;DNA;Homo sapiens

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TTCCCCTCAAAAAAAATTTTTTAAAAAATTTCTCCAATATTGTGGGCCCCCCTAAGGGGA
AAAAAAAAAATTTTCTTTTTTTTTTTCCAAAAAAGTTTTTTTTTTAAAAAACTAAAAACG
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GTTAAAATTTTTTAAAAAAAA

Sequence=12491;DNA;Homo sapiens

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GACGGTGGTGGGA

Sequence=12492;DNA;Homo sapiens

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TABLE 2

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Sequence=12493;DNA;Homo sapiens
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Sequence=12494;DNA;Homo sapiens
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TTTATAAAAAAAAAAA
Sequence=12495;DNA;Homo sapiens
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Sequence=12496;DNA;Homo sapiens
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Sequence=12497;DNA;Homo sapiens
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TABLE 2

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CTCCGCAGCAAGGGTCTGGGGCCCCTTTAGCGAAAGCGAAACTAAAAGTCTCCCCCGCGT
ACCTTTTACGCTGCCAGAATGAATGTAGGGCTGCTATGCCAGCTAGCATATTACCCTTTT
TACTGCCCTCACCGCAGTTCAGTGTTTGCCAAAGTGTGAACCAAAACTGCTTGTATCACA
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GACACTCTAAAA

Sequence=12498;DNA;Homo sapiens

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CAAATGAGCTAAGCGTCTGGTCTGATGGAGACATTTGGGCAGCTAAATAAGATCCAACTT
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Sequence=12499;DNA;Homo sapiens

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AGAAAGAAGGGCAGGAGAAAGAAGAGAGCAAAAAGGATAGGAAAGAGGACAAGGAGAAAG
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GCAAGGATTCTACTGGTAAACCTTCCTATGGTCAAAGGAAAAACAAGCAGGAGTTGAGTG
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Sequence=12500;DNA;Homo sapiens

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AAAAAA

Sequence=12501;DNA;Homo sapiens

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ATCACTCTCCCATGCACTATTTCTATGTCTTGGCATTTTTCTTTCATGATATTTATGTCA
TAGAGCCTTTTCTCATAGGTCACTCCTTTACTTTCTTTTGATCTCTGTTAAAACAGTACC
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GAGCTCGGTACCAAGCTTGGCGTAATCATG

Sequence=12502;DNA;Homo sapiens

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TABLE 2

2022/3461

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Sequence=12503;DNA;Homo sapiens
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CTGCTTGATAATAAGCACTTTTTCAGGCCTATTGAGAATGTGGTTAATGATTCTAAACTT
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Sequence=12504;DNA;Homo sapiens
TATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGTGATGGATATC
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ACTGGCTTCAGCAGAAGTGGTGACAGGTGTGCTGGTGTCAACAGGAGTTGTTGAAAGGGT
GCTAGCCTCAGAATTGGCCAACAGCGTGGTGCTGACAAGTATATTTGTTAATGGAGTGCT
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Sequence=12505;DNA;Homo sapiens
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TABLE 2

2023/3461

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TABLE 2

2024/346i

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TABLE 2

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Sequence=12523;DNA;Homo sapiens

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Sequence=12525;DNA;Homo sapiens

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Sequence=12527;DNA;Homo sapiens

TABLE 2

2026/3461

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TABLE 2
2027/3461

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GACCTGAGTTTACATCACTACTCTGCCACTCCCTAGGTACCTGCCCGGGCGGCCGCTCGA
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Sequence=12540;DNA;Homo sapiens
TACGACTCACTATAGGGCGAATTGGGCCCTCTAGATGCATGCTCGAGCGGCCGCCAGTGT

TABLE 2

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GATGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCATCATGAAA
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TCATGGTATCATAGTAATTGAGTCCAAGTAATTCTTATTTTACTTAATAATAGCTCCAAA
GCAGAAAAGTAATGATGCTGGCAATTTGGATATGTCAAATAGAAGTTGCCAAGTTCTACC
TTTAAGTGAAAATGTAAAACTTCTTGAATTGGTAAGGAAAGGAAAAAAATATATACCAAG
GATGCTAAGATCTATGCTAAGAATGATTCTTCTATCCATGAAACTGTGAATTAGAAAAAG
GAAATTTGTGCTAGTTTTGCTGTTGTGCCTCAAACTGCAAAAGTCGTGGTCACAGTGCAT
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Sequence=12541;DNA;Homo sapiens

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TCTAAGCTTTATCAGCTAGGAAGCAGATAGGAATTAATAATTCCAAGAAGAGAAGAAGTT
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Sequence=12542;DNA;Homo sapiens

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AGGTACGCGGGGAGAAGCTTGGACCGCATCCTAGCCGCCGACTCACACAAGGCAGAGTTG
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Sequence=12544;DNA;Homo sapiens

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TABLE 2

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CACCCAAAAAACAAGGAC
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TABLE 2

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ATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACAT
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ATGAATCGG

Sequence=12553;DNA;Homo sapiens
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CCCCTGAGTAGACAGTATTTGTCTAACTATCTTAGAGTGCTGAGAAGAGTGTGTGGCTCA
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Sequence=12555;DNA;Homo sapiens
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CAGATGCTTGTCATGCAGAACTGCTCAGGACTATAAGCACTACTATGGGGAAACTAATGC
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GATCCTTGGACC

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Sequence=12558;DNA;Homo sapiens
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TABLE 2

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Sequence=12561;DNA;Homo sapiens
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TABLE 2

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Sequence=12566;DNA;Homo sapiens
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Sequence=12568;DNA;Homo sapiens
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Sequence=12571;DNA;Homo sapiens
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TABLE 2

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TAACC
Sequence=12572;DNA;Homo sapiens
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Sequence=12573;DNA;Homo sapiens
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ATA
Sequence=12574;DNA;Homo sapiens
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Sequence=12575;DNA;Homo sapiens
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Sequence=12576;DNA;Homo sapiens
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Sequence=12577;DNA;Homo sapiens
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TABLE 2

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TCTATAATTTTATTTTTATATATATTATTTATGTTAATTTTTATAGATGGGAGGAAAGAG
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Sequence=12578;DNA;Homo sapiens
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Sequence=12579;DNA;Homo sapiens
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ATATGATGCT
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TABLE 2
2035/3461

AAGCAAAACAACTGTCAGTCTTCCTGAAATGAAGAAACTACACCAGG
Sequence=12584;DNA;Homo sapiens
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Sequence=12585;DNA;Homo sapiens
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CCCGGCACACCCCCACGCGCCACCTTTTATTGTGTCCTCCGTCCACCTCCCAGTAATGTT
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GCCTTCCCACATTGATTTTCTGCCTCTCTCGTTCTCTTATAAGGATCTTGGTGATTACAT
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Sequence=12590;DNA;Homo sapiens

TABLE 2

2036/3461

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Sequence=12591;DNA;Homo sapiens

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TGCTGTCGGTGGTCTGCGGGAAGCCAAAGTCCATGAGCTCGTCCAGCAACTCGTAGACGA
TGACAAAGTTGTCCCGGATGCTCTCCTCCTCCAGCTCCTTGAAGTATTCGCAGAATACCT
CTATTGTCTTATACAGGAAGGAGTACTTCCCACTTTTCATAACGAGTTGGAGCCTAGAGT
TGATCGACTCCAGCGACTTTTTCGTCTTCTTTGCGGCCACCATCTTCCTGCCTTAGGAGC
GGGACGGCCCCCAACCAACAGCAGCCGCTAAGATGGCCGGGGAACGAGACCCCGCGTACC
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Sequence=12592;DNA;Homo sapiens

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Sequence=12593;DNA;Homo sapiens

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GTCCTGGGTGAAA

Sequence=12594;DNA;Homo sapiens

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CCCCTTTGACAGGGAACAGCTGCTGCAATTGGCTGAGACCACCTTATAAAATCACAGTCC
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Sequence=12596;DNA;Homo sapiens

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TABLE 2

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ACGCTAAGGGCGAATTCCAGCACACTGGCGGTCGTTACTAGTGGATCCTAGCTCGGTACC
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TCATAGCT

Sequence=12597;DNA;Homo sapiens

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Sequence=12598;DNA;Homo sapiens

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Sequence=12600;DNA;Homo sapiens

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Sequence=12601;DNA;Homo sapiens

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Sequence=12602;DNA;Homo sapiens

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Sequence=12603;DNA;Homo sapiens

TABLE 2

2038/3461

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AGGATA

Sequence=12604;DNA;Homo sapiens

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Sequence=12605;DNA;Homo sapiens

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Sequence=12606;DNA;Homo sapiens

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Sequence=12607;DNA;Homo sapiens

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Sequence=12608;DNA;Homo sapiens

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Sequence=12609;DNA;Homo sapiens

TABLE 2
2039/3461

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TAGATGAAGTCACATTCAGTCTGCTTTGAAATGAAATATCTTTAAGTAATCTGTTCTGCC
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TABLE 2
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Sequence=12617;DNA;Homo sapiens
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GGCCGCGACCACGCTAAGGGCGAATTCCAGCACACTGGCGGCCGTTACTAGTGGATCCGA
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AATGAGTGAGCTAACT

Sequence=12619;DNA;Homo sapiens
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Sequence=12620;DNA;Homo sapiens
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Sequence=12621;DNA;Homo sapiens
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TABLE 2

2041/3461

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TABLE 2

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CACTCGAGCCTGGGC

Sequence=12628;DNA;Homo sapiens
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AGGTGATCTGCCCACCTTAGCCTCCCAAAGTGCTGGGATTACGGGTGTGAGCCACCGCGC
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Sequence=12632;DNA;Homo sapiens
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TABLE 2

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AGCAATTAAATAAATCTAGCCACTTGTAAATTGAAATAAACCTCTCTCCTAAGCCAGCAG
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GAAAAATTT

Sequence=12634;DNA;Homo sapiens

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Sequence=12636;DNA;Homo sapiens

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Sequence=12638;DNA;Homo sapiens

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Sequence=12640;DNA;Homo sapiens

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TABLE 2

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ACGTCATCCAGCAGAGAATGGAAAGTCAAATTTCCTGAATTGCTATGTGTCTGGGTTTCA
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Sequence=12641;DNA;Homo sapiens

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Sequence=12642;DNA;Homo sapiens

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Sequence=12643;DNA;Homo sapiens

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Sequence=12644;DNA;Homo sapiens

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Sequence=12645;DNA;Homo sapiens

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Sequence=12646;DNA;Homo sapiens

TABLE 2

2045/3461

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TABLE 2

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TABLE 2
2047/3461

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TABLE 2

2048/3461

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TABLE 2

2049/3461

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Sequence=12664;DNA;Homo sapiens

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Sequence=12666;DNA;Homo sapiens

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TABLE 2
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CCAACCACCTGTGCACAATGCTTCCACCTGCAGGAAGGTCATCGCAAACGCTCCAATCTC
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CCCGCCGCGCTCCGCTCCAGACCCGCGCGGCCTCGCCGGCTCAGCAGCACTCGCAGCCGG
CGATCCGCTGGTGCAGCTCCACGATCCGCCTGCCCATCCGCGCCGCCTCCGCAGCCTTCC
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Sequence=12667;DNA;Homo sapiens

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Sequence=12668;DNA;Homo sapiens

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TABLE 2

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Sequence=12670;DNA;Homo sapiens
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TABLE 2

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Sequence=12671;DNA;Homo sapiens

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Sequence=12672;DNA;Homo sapiens

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TABLE 2

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TABLE 2
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Sequence=12673;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=12676;DNA;Homo sapiens

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Sequence=12677;DNA;Homo sapiens

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TABLE 2

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Sequence=12678;DNA;Homo sapiens

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TABLE 2

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Sequence=12679;DNA;Homo sapiens

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TABLE 2

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Sequence=12680;DNA;Homo sapiens

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Sequence=12681;DNA;Homo sapiens

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Sequence=12682;DNA;Homo sapiens

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Sequence=12683;DNA;Homo sapiens

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Sequence=12684;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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Sequence=12685;DNA;Homo sapiens

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Sequence=12686;DNA;Homo sapiens

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Sequence=12687;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

2067/3461

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TABLE 2

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TABLE 2

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TABLE 2
2070/3461

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

2083/3461

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TABLE 2

2084/3461

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TABLE 2

2085/3461

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

2090/3461

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2
2095/3461

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Sequence=12740;DNA;Homo sapiens

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TABLE 2
2096/3461

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TABLE 2

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TABLE 2

2098/3461

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TABLE 2

2099/3461

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TABLE 2

2100/3461

NNNNNNNNNN
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TABLE 2

2101/3461

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TABLE 2

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Sequence=12753;DNA;Homo sapiens

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Sequence=12754;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=12758;DNA;Homo sapiens

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Sequence=12759;DNA;Homo sapiens

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TABLE 2

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NNNNNNNNNNNN

Sequence=12760;DNA;Homo sapiens

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TABLE 2
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TABLE 2

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Sequence=12763;DNA;Homo sapiens

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TABLE 2
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Sequence=12765;DNA;Homo sapiens

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TABLE 2

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TABLE 2
2113/3461

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TABLE 2

2114/3461

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TABLE 2

2115/3461

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TABLE 2
2116/3461

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Sequence=12771;DNA;Homo sapiens

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TABLE 2

2117/3461

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

2121/3461

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TABLE 2

2122/3461

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TABLE 2

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TABLE 2

2124/3461

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Sequence=12782;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=12787;DNA;Homo sapiens

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Sequence=12788;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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Sequence=12799;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2
2139/3461

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TABLE 2

2140/3461

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Sequence=12813;DNA;Homo sapiens

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TABLE 2

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Sequence=12818;DNA;Homo sapiens

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TABLE 2

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Sequence=12819;DNA;Homo sapiens

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TABLE 2
2143/3461

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Sequence=12825;DNA;Homo sapiens
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Sequence=12826;DNA;Homo sapiens
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TABLE 2

2144/3461

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TABLE 2

2145/3461

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TABLE 2

2146/3461

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TABLE 2
2147/3461

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Sequence=12843;DNA;Homo sapiens

TABLE 2
2148/3461

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TGTCCAAAATGGAGCTCTTGATGTTTCCCAAAATAGTAAATCCTACAGTTTTCCTCATCC
CAGTTAATGGAAAATCATCATTTCTCTCATACGCTGCTTCCAGTCTGTCATCAAATCCAC
CTCAAGTATATTCAAAATTTGACCACTTCTCACCAGCACCACTGTCATTATCCTGATTCA
AGCCTCCATCATCTCTCATCGTTACTGTGACCTCCTGATCATTCTCCTTGCTTCAGCCCT
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TABLE 2

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CTGGGTGTGGTGTCTCACGCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGGGAGGATCA
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GCTCTGCAACCTGAACAAN

Sequence=12846;DNA;Homo sapiens
ATCGTCGAGGTCAAGGACGGTTATGGCCGTAACTACCTGCTGCCGCAGAATTACGCCATC
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CAGGTGACTGTCCAGGTCGGCGAGAACGGTCGTCTGTTCGGGGCCGTGACTCCTGGCGAT
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Sequence=12847;DNA;Homo sapiens
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CCTTGGTGGAGTACTCAGGACCTTAGTAAAAGCAGAGGGGGCTGGAGAGGCAGGCCTGGC
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Sequence=12848;DNA;Homo sapiens
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TATACAAACATGTAACAGTAGACTCTGGTTCATCAGGAGTAAATGACATGATATGTGATA
GACCACATACATTCGTGGCTATAGATAGGTGAGTAACTGTAACCATATCCAATTGTGAGC
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TABLE 2

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N

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CCTTCTGTTTGAGGACTTCAGATTATCTAGCAACTGATTTAATCTGGTCAGAAATAAACT
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Sequence=12852;DNA;Homo sapiens

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AGGGGGATGGTGAGAAGGGGGCTGGGTGTGAGGGGATCTTCAAGGCAGAATCTTAGGCTG
TCTTTTAAGAATTGTGTGCCGGGACGTGGTTGGAGGCTGGGTGCAGAAAGGAAGAGGCAA
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CCCCTGTTGCTGTGGCCTCACCAGGGAAGGCTGGTCTGTGGTCAGTTCCTCCCCCTCCCC
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Sequence=12853;DNA;Homo sapiens

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ATGGAGTAATTTTCTTTTACTCACTCAGCCTCTGTGGTTTGCCAGGAGCTACAAATAAAA
GATTAAAACACAGTCACACCTCCAAGGAACTCATATAATAGTAACAGAAGTAACTACCAT
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AAAAGTACAATTTACNN

Sequence=12855;DNA;Homo sapiens

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TABLE 2
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TAATGACGTTTTGGTCATCGAGACCCACATGTGTGACAGTGGTCCCATAAGGATGCTGCT
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CTGGTGGAGGTGGAAGTGACTTAGGAGTCATCCATGAACATAAATGAGATCACTCGTGTA
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TABLE 2

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Sequence=12859;DNA;Homo sapiens

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Sequence=12860;DNA;Homo sapiens

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Sequence=12861;DNA;Homo sapiens

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Sequence=12862;DNA;Homo sapiens

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TABLE 2

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Sequence=12863;DNA;Homo sapiens
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Sequence=12864;DNA;Homo sapiens
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Sequence=12866;DNA;Homo sapiens
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TABLE 2

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AGTCTCATCGGTGCCTCTCTGCCTCTGTCCCTCTGCCCTGGCCCCCACAGCGGCTCCAGC
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Sequence=12867;DNA;Homo sapiens

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Sequence=12868;DNA;Homo sapiens

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Sequence=12869;DNA;Homo sapiens

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TABLE 2

2155/3461

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Sequence=12871;DNA;Homo sapiens

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Sequence=12872;DNA;Homo sapiens

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Sequence=12873;DNA;Homo sapiens

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TABLE 2

2156/3461

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TABLE 2

2157/3461

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Sequence=12878;DNA;Homo sapiens

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Sequence=12880;DNA;Homo sapiens

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TABLE 2

2158/3461

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TABLE 2

2159/3461

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Sequence=12882;DNA;Homo sapiens

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TABLE 2

2160/3461

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TABLE 2

2161/3461

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TABLE 2
2162/3461

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TABLE 2

2163/3461

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TABLE 2
2164/3461

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AAATTTAATATCCTAGGCACAGTGTCTGTCCTTTATTTGATTTTCCTTGTCACCTTTAAG
GCTGTTCGCTTGGGATTTCATTTGGAATTTCATTGGTTTATACCAACAGAATTTTTTGTA
CCAGAGATAAGATTTCAGTTTCCACAGCTGACTGGAGTGCTTACCCTTGCTTTTTTTATT
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TABLE 2
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TTGTGCATTGCTTATATGCTGGTGACATTAACTTATCTCTATATTGGAGTCCTGGTTTTT
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ACTGTATAGCCACTCTCTAGGGCTAACCTGGGTTCGTGTCCCAGCTTTTGGGGACCATAC
TCTTTCGCGTGAACATTGTCTTCCTTAGCCTATATCCCATGGTGGCTGGATTTCTTAACA
TCCTACTAAATCGGTGGGAGACTAGGAGTGAATCCTTGGCCGTTTCTACCCCCACACATA
GCAGGACTCATCAAATATTCAAGGACAGTGGGGCATGCCTTCGGATCATATTCCATTATC
ACAATGTATATACTCACAAGAAATGCTGATGCATCATCATCTACAGTTCACCACTTGGGC
GACAACCGCACGACAACAAATGACCAACACAGTCACAACCCAGATCGANN

Sequence=12899;DNA;Homo sapiens

CCACGCGTCCGCATCTCTGTCATGTGCTTATAGTCACTCCTCTCCATCTATGTTATACTG
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TCTGATGGACAAACCGCCCCTCATATCTTCCAAGAGAGACGACTGAGACATGAACTGGAG
GAGGGGAGAGACGACTAGGTGGGTGAAGTGCATAGCTGGAGACTCAGAGCAGGGGTTGTG
TATAATTACAGTGCACATGGTGTCCTGCCGCGCGGAGAAGGGTGGGAAGAGAGCATAAGC
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GACTTCTCCACCTCGGGGGCCTGGCTGCCTCACAGGTATGAAGACAACCACCATAACTGC
TACTCTTACGCACTCACGTTCATTAACTGCGTTCTGATGGCAGAAGGTAGACAGCAACTG
GACAAGGGTGAATTTACGGAGAAGTACGTGGTCCCGCGGACAAGGCTGGCATCCAAGTTC
ATCACACTCTACCGGGCGATACGGGAGCATGGCTTCTACGTCACTGACTGTCCCCAGCAG
CAGGCACAACCCCCTGAGGGCGGCGGTTTGTGCTGAGAGCTATGTAAGCGCAGCCTGGAC
GCTGGAGGGTAGGGTGGTTGCTACCTTTAATCAGTACTATGGATTTCTAAATGCATTTAA
CTGTGGTTAATAAAAGCGTGTATGGGCCGGGCATGGTGGCTCACACCTGTAATCCCAGCA
CTTTGGGAAGCTAAGACAGGTAGGTCACCTGAN

Sequence=12900;DNA;Homo sapiens

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GTAATTGGGATTTGACAAGGACTGTGAAAGGCTGACTCTCCCTGTTCTCTTTCATGCTGG
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CAGTTTAT

Sequence=12901;DNA;Homo sapiens

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GAACTCACTGAGCTGGAAGTCATTCAACGGGAATTGAATAGGTAACTGCACTTTTGTGAG
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TCTGGAGGACACCACAGGCCAGCTCTCTATTCTGAACTACATCATGCCCGTTCAGTACGA
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Sequence=12902;DNA;Homo sapiens

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GAAGACAGCTACACCTGGTTTCCTCCCTCATGCCTTGATCCCCAGAACTGCTACCTTCAC
ACGGCTGGAGCACTCCCAAGCTGTGAATGTCATCTCAACAACCTCAGCCAGAGTGTCAAT
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TABLE 2

2166/3461

GGAAGCATCGTTGCTGGGAAGGGAGTTGTTGGCTCCAGCAGTGCATCTGAACTGCTGTCA
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TCCAAGGATGATGAATATACCCTGCCCTGCAGCAGTGGCTACAGGGGAAACATCACAGCC
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Sequence=12903;DNA;Homo sapiens

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GCAGTTGAACATGGAGCTACTGAAATAGATATGGTTATAAATGTGGGTAAATTCAAAGAA
AAAGTTTATGACTACATCTTAAATGAAATCCAACAAGTTAAAAAAGCAATTGGAAATAAA
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ACTAGATTTGGTACGGCATGATGAGTTCTGAGCTGCGGAGGAACCCTCATTTCCTCAAAA
GTAATTTATTTTTACAGCTTCTGGTTTCACATGAAATTGTTTGCGCTACTGAGACTGTTA
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Sequence=12904;DNA;Homo sapiens

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TCCAGTTGGTTTAAAAGAAATCATTAGGGTGACCCCCACTCCCACTTTCTGGAACCTCAG
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Sequence=12905;DNA;Homo sapiens

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GAGACTTAGGGCTGTTGGGCTGATATATGTTTGGGGGTCCCACCTCCCCGCCTCATCCGT
ACCTCGGCCGACCAGTGCAAATATCTACCCAGTTAGAAGAGTAAATACCATCTTAGTGTT
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CAATACTCTGAGAACCACTGATCTAATGTTTCTTTAGTCAGTTTCTATTTGTTCTCTAGT
ATAACCAAGCATAAAAGTAATATACTTCCGCCTCTCTCTCCCCCAACTGACTTTAGTCAA
TAGTACCTCGGCCGCCACCGCGGN

Sequence=12906;DNA;Homo sapiens

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TGCCCCAAATGTTTTTCTGGTTTTCTGTGGAGCCATACAGAACCATAAAGAGAAGTTGTT
GAGAAACCGGTTTGACTTTCAAGTCTGATGAGGAGCCTGGTTTCCATGAGATTTTCAGCT
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Sequence=12907;DNA;Homo sapiens

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CTGAGCTGAGGCTGGTGCAGTTCGACTCAGGGAAGTTGGAAGCTTTAGCTATCTTGCTTC
AGAAATTGAAATCTGAAGGACGTCGGGTGCTGATTTTATCACAGATGATTCTTATGTTGG
ACATTTTAGAGATGTTCTTGAACTTCCATTACCTCACCTATGTAAGAATCGATGAAAATG
CCAGCAGTGAGCAACGGCAGGAACTGATGAGGAGTTTCAACAGAGACAGGCGGATTTTTT
GTGCCATTCTCTCCACTCACAGCCGTACCACAGGTATAAACCTTGTAGAGGCGGACACCG

TABLE 2

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TCGTGTTTTATGACAATGACCTGAATCCAGTGATGGATGCCAAAGCTCAGGAGTGGTGCG
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CTGTCACGGAAACCATTGCACCCAAAATTGCAAGACCTTTCATAGAGACTTTCCTCAGGC
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CACCGACTTAGACAATGGCGGTGTCATCTGAACCCTCATTATGAATGGATATGGGGGGGA
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Sequence=12908;DNA;Homo sapiens

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Sequence=12909;DNA;Homo sapiens

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TCTCTTGAGCAATCTTTAGCCTCTCCCTTAGACTATCTCGTTCTGTGGTCATTCTTCGTA
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CTCTTGTTGTTGTCTTCAAAAGTTCTACATCACAGTTTGCACCCCGGGCAGTTGGTGGAT
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Sequence=12910;DNA;Homo sapiens

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CAAAGCCCCCAAACCCTGCATTCAGATACTATGCATTTAGACTTCCTTAGGCAAAGTCAA
GGCAACAAGCTGATGATTCTAAGCTATTATTCAAGGAGTATCTACCATCATAAAGGTGGT
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TABLE 2

2168/3461

GCCAGATAGTAGCTGAGTATGATGACCCCTAATCTCAGCACTTTGGGAGGCTGATGGGAG
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GATCACACCAN

Sequence=12911;DNA;Homo sapiens
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Sequence=12912;DNA;Homo sapiens
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GGAGTTTCCAATTCN

Sequence=12913;DNA;Homo sapiens
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Sequence=12915;DNA;Homo sapiens
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TABLE 2

2169/3461

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GCGTGTGTGTGCTCACAGCCAGCAAAATGAAAAAAAATCCCAGCTCTGAAGGAGAGGCAA
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Sequence=12917;DNA;Homo sapiens

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ATGCAATTAAAAAAAAAAAGCACAGGTTTTGGGGCCATGCTGAAATCCCAGCCTTGCTAT
TTGCTGGCTGTGTGACCGTGGTTCCTTGGTCTCATTATGCTTTGGTTCCCGTATCTATAA

TABLE 2

2170/3461

AACGGACGTAATAATGTCTCCCTCTCATTATTGTGAAGTCGAAATGATGTCTGTAAAGTG
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Sequence=12918;DNA;Homo sapiens
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Sequence=12919;DNA;Homo sapiens
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TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2
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TABLE 2

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Sequence=12956;DNA;Homo sapiens

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TABLE 2

2180/3461

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TABLE 2

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AGGGCTTCAGTTTTCCCACCTGTCCAATGGGACCCTTTCTGTCCTCACCCTACAAGGGGC
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Sequence=12959;DNA;Homo sapiens

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Sequence=12961;DNA;Homo sapiens

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TABLE 2

2182/3461

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TABLE 2

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TABLE 2

2184/3461

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TABLE 2

2185/3461

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Sequence=12971;DNA;Homo sapiens

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TABLE 2

2186/3461

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Sequence=12972;DNA;Homo sapiens

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Sequence=12973;DNA;Homo sapiens

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Sequence=12974;DNA;Homo sapiens

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TABLE 2

2187/3461

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Sequence=12975;DNA;Homo sapiens

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Sequence=12977;DNA;Homo sapiens

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TABLE 2

2188/3461

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Sequence=12978;DNA;Homo sapiens
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TABLE 2

2189/3461

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Sequence=12981;DNA;Homo sapiens

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Sequence=12982;DNA;Homo sapiens

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Sequence=12983;DNA;Homo sapiens

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TABLE 2

2190/3461

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Sequence=12984;DNA;Homo sapiens

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Sequence=12985;DNA;Homo sapiens

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TABLE 2
2191/3461

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Sequence=12986;DNA;Homo sapiens
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Sequence=12987;DNA;Homo sapiens
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TABLE 2
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TABLE 2

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TABLE 2

2194/3461

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TABLE 2

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TABLE 2

2196/3461

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TABLE 2

2197/3461

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Sequence=13009;DNA;Homo sapiens
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TABLE 2
2198/3461

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TABLE 2

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TABLE 2

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TABLE 2
2201/3461

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TABLE 2

2202/3461

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TABLE 2

2203/3461

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TABLE 2

2204/3461

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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=13050;DNA;Homo sapiens

CCCGCCAGGTACGCGGGGGGATACTCATTAGAGTTGCTCGGTGGAGATGGAATGATGGTG
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CAGGTCATTCATATTTGGGGGAAGGAACAAAGAGGGTACCTCGCCCGCTCTAGCTGCTAC
CCCACCATCATTCCATCTCCACCGAGCAACTCTAATGAGTATCCCCCCGCGT

Sequence=13051;DNA;Homo sapiens

ACTGCTATGAATCTCACAGATGTAATAATGAGTTAAAGAAGCTAGGCACAAAAGAATATT
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TCAGGATTCTGGTTATATTCAGGGATAGTGATGGAAGAGGGCTATAAGGAGGGTGTCTGG
GTGCAGGTCATGTTCTAGATCTTGATCTGAGTGGGGGTTACATAGGTGTATTCACTTCAT
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CGCAGCCCCAGCCTGATGTTTCTCTCTGCTCAGGGTTTCTCGTGCTGTGCCTGTGATAGC
TCTTGGTGTCCATGGAAACCAGACAGAGACAGCGTGGTGGGGAAACAAGCCAGAGGGAAA
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TABLE 2

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Sequence=13052;DNA;Homo sapiens
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TGGAAGACCAGGTGGAAGGGTGTTCTGTAGAAGTTGTGCGCCTCTCTGTGGCCGGGGTGC
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TGCTTCAGCTGTAAAGACAGAGACCAGT
Sequence=13053;DNA;Homo sapiens
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GCCTTTGTGGCATGGGGCTAGCCCGGCATGGGGCTGATTAAGTTACGGTTGAGGAGGTGA
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Sequence=13054;DNA;Homo sapiens
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CCCCAGGTGATCCGTCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACC
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GCACCTTTTAATACAATTGAGGTGACACTGTTCTTCATGGTGACACTGGTCTTTCCCAAG
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Sequence=13055;DNA;Homo sapiens
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AATTTCCAAGTACCN
Sequence=13056;DNA;Homo sapiens
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CCTATGACATGACAGGCACTCAAGCCTGATGAGGCAGAAACCTGGCAGCTGTAGATGTTG
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TABLE 2
2209/3461

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Sequence=13060;DNA;Homo sapiens
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GTN

Sequence=13061;DNA;Homo sapiens
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CTATACCCTTCTTGGTATAGGCAAAACTGCCCCACAGAGGCTGTGCAATCAGGCAAAGGC
ATGCTCCTCTTGGCCTTAGTTTCACCATTTGTAAAACGAGTACACTGAACTCAATGATCT
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TABLE 2

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GTCTAGTCTTGCCTATTTTTTTTCAATTTTTATTATTTTTCTAGAGTTTGGACTGAATTC
TAATTTTTCTTGGCTACAAGCCTTCAAAATAATGTTTTCAATTTTTTTCCTTCTTTTTTT
TTCTC

Sequence=13063;DNA;Homo sapiens

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GGTGATGACTCAGACCGACACTGCATTGGTAGGAATTCCACAAATAGGTGCCTCAATGTG
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Sequence=13064;DNA;Homo sapiens

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CCCGATGGAAAAGTGTGCTGGACGTCAGGATGGGGGGCCACAGAGGATGGAGCAGGTGAC
GCCTCCCCTGTCCTGAACCACGCGGCCGTCCCTTTGATTTCCAACAAGATCTGCAACCAC
AGGGACGTGTACGGTGGCATCATCTCCCCCTCCATGCTCTGCGCGGGCTACCTGACGGGT
GGCGTGGACAGCTGCCAGGGGGACAGCGGGGGGCCCCTGGTGTGTCAAGAGAGGAGGCTG
TGGAAGTTAGTGGGAGCGACCAGCTTTGGCATCGGCTGCGCAGAGGTGAACAAGCCTGGG
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Sequence=13065;DNA;Homo sapiens

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Sequence=13066;DNA;Homo sapiens

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TABLE 2

2211/3461

ACACAGAAAATATATTTTTTGGCTGTGGGGGCTGGAAGTGTTGCTGATTAGCATTTGAAA
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Sequence=13067;DNA;Homo sapiens

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Sequence=13068;DNA;Homo sapiens

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TABLE 2

2212/3461

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Sequence=13069;DNA;Homo sapiens

TABLE 2
2213/3461

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Sequence=13070;DNA;Homo sapiens

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TABLE 2

2214/3461

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TABLE 2

2215/3461

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TABLE 2

2216/3461

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TABLE 2

2217/3461

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TABLE 2

2218/3461

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TABLE 2

2221/3461

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TABLE 2

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TABLE 2

2223/3461

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2224/3461

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2225/3461

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TABLE 2

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TABLE 2

2227/3461

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2228/3461

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TABLE 2

2229/3461

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Sequence=13122;DNA;Homo sapiens
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TABLE 2

2230/3461

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Sequence=13127;DNA;Homo sapiens

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TABLE 2

2231/3461

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Sequence=13128;DNA;Homo sapiens

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TABLE 2

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TABLE 2

2233/3461

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TABLE 2

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TABLE 2

2235/3461

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TABLE 2

2236/3461

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TABLE 2

2237/3461

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TABLE 2

2238/3461

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TABLE 2

2239/3461

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TABLE 2

2240/3461

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TABLE 2

2241/3461

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TABLE 2

2242/3461

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TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=13166;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=13171;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

2259/3461

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TABLE 2

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Sequence=13184;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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Sequence=13187;DNA;Homo sapiens

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TABLE 2

2263/3461

Sequence=13188;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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NNNNN

Sequence=13191;DNA;Homo sapiens

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Sequence=13192;DNA;Homo sapiens

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TABLE 2

2266/3461

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Sequence=13193;DNA;Homo sapiens

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TABLE 2

2267/3461

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Sequence=13194;DNA;Homo sapiens

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TABLE 2

2268/3461

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Sequence=13197;DNA;Homo sapiens

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TABLE 2

2269/3461

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Sequence=13198;DNA;Homo sapiens

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Sequence=13199;DNA;Homo sapiens

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TABLE 2

2270/3461

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TABLE 2

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Sequence=13201;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

2274/3461

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TABLE 2

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TABLE 2

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TABLE 2
2282/3461

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TABLE 2

2283/3461

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TABLE 2

2284/3461

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TABLE 2

2285/3461

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

2298/3461

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TABLE 2

2299/3461

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TABLE 2

2300/3461

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TABLE 2

2301/3461

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Sequence=13247;DNA;Homo sapiens
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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=13250;DNA;Homo sapiens

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TABLE 2

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TANN

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TABLE 2

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Sequence=13255;DNA;Homo sapiens

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TABLE 2

2307/3461

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Sequence=13257;DNA;Homo sapiens

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TABLE 2

2308/3461

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Sequence=13259;DNA;Homo sapiens

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TABLE 2

2309/3461

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Sequence=13260;DNA;Homo sapiens
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TABLE 2

2310/3461

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Sequence=13261;DNA;Homo sapiens

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TABLE 2

2311/3461

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Sequence=13263;DNA;Homo sapiens

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TABLE 2
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TABLE 2

2313/3461

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TABLE 2

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TABLE 2

2315/3461

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TABLE 2

2316/3461

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TABLE 2

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Sequence=13271;DNA;Homo sapiens

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TABLE 2

2318/3461

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TABLE 2

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TABLE 2

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TABLE 2

2321/3461

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TABLE 2

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Sequence=13282;DNA;Homo sapiens

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TABLE 2

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TABLE 2

2330/3461

ANN
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TABLE 2

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TABLE 2

2332/3461

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2
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TABLE 2

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Sequence=13304;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

2344/3461

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TABLE 2

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TABLE 2

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TABLE 2
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TABLE 2
2348/3461

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TABLE 2
2349/3461

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TABLE 2

2350/3461

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TABLE 2

2351/3461

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TABLE 2

2352/3461

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TABLE 2

2353/3461

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Sequence=13331;DNA;Homo sapiens

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Sequence=13332;DNA;Homo sapiens

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TABLE 2

2354/3461

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TABLE 2

2355/3461

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Sequence=13339;DNA;Homo sapiens

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TABLE 2

2356/3461

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Sequence=13342;DNA;Homo sapiens

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TABLE 2
2357/3461

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TABLE 2

2358/3461

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Sequence=13347;DNA;Homo sapiens

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Sequence=13348;DNA;Homo sapiens

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TABLE 2

2359/3461

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TABLE 2

2360/3461

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TABLE 2

2361/3461

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TABLE 2

2362/3461

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Sequence=13356;DNA;Homo sapiens

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TABLE 2

2363/3461

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Sequence=13357;DNA;Homo sapiens

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Sequence=13358;DNA;Homo sapiens

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TABLE 2

2364/3461

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TABLE 2

2365/3461

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TABLE 2

2366/3461

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TABLE 2

2367/3461

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Sequence=13362;DNA;Homo sapiens

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TABLE 2

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Sequence=13364;DNA;Homo sapiens

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TABLE 2

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Sequence=13365;DNA;Homo sapiens

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TABLE 2
2370/3461

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TABLE 2

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Sequence=13369;DNA;Homo sapiens

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TABLE 2
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TABLE 2

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TABLE 2

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Sequence=13374;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=13380;DNA;Homo sapiens

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GGT

Sequence=13382;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

2380/3461

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TABLE 2

2381/3461

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TABLE 2

2382/3461

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TABLE 2

2383/3461

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TABLE 2

2384/3461

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CAN
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Sequence=13397;DNA;Homo sapiens
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TABLE 2

2385/3461

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Sequence=13398;DNA;Homo sapiens

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Sequence=13399;DNA;Homo sapiens

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TABLE 2

2386/3461

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TABLE 2
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Sequence=13405;DNA;Homo sapiens

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TABLE 2

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TABLE 2
2389/3461

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TABLE 2

2390/3461

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TABLE 2

2391/3461

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TABLE 2

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TABLE 2

2393/3461

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TABLE 2

2394/3461

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TABLE 2

2396/3461

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TABLE 2

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TABLE 2

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TABLE 2

2399/3461

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TABLE 2

2400/3461

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TABLE 2

2401/3461

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TABLE 2

2402/3461

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TABLE 2

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TABLE 2

2404/3461

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TABLE 2

2405/3461

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TABLE 2

2406/3461

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TABLE 2
2407/3461

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TABLE 2

2408/3461

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TABLE 2
2409/3461

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TABLE 2

2410/3461

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Sequence=13462;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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2416/3461

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TABLE 2

2417/3461

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TABLE 2

2418/3461

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TABLE 2

2419/3461

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TABLE 2

2420/3461

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TABLE 2

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Sequence=13481;DNA;Homo sapiens

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Sequence=13482;DNA;Homo sapiens

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TABLE 2

2422/3461

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=13494;DNA;Homo sapiens

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TABLE 2

2427/3461

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Sequence=13497;DNA;Homo sapiens

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TABLE 2

2428/3461

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Sequence=13499;DNA;Homo sapiens

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TABLE 2

2429/3461

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TABLE 2

2430/3461

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Sequence=13501;DNA;Homo sapiens

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TABLE 2

2431/3461

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Sequence=13504;DNA;Homo sapiens

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TABLE 2

2432/3461

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TABLE 2

2433/3461

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TABLE 2

2434/3461

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TABLE 2

2435/3461

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TABLE 2

2436/3461

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TABLE 2

2437/3461

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TABLE 2

2438/3461

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TABLE 2

2439/3461

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TABLE 2

2440/3461

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TABLE 2
2441/3461

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=13531;DNA;Homo sapiens
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TABLE 2

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Sequence=13532;DNA;Homo sapiens

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Sequence=13533;DNA;Homo sapiens

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TABLE 2

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Sequence=13534;DNA;Homo sapiens

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Sequence=13535;DNA;Homo sapiens

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TABLE 2

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Sequence=13536;DNA;Homo sapiens
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TABLE 2

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Sequence=13537;DNA;Homo sapiens

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Sequence=13538;DNA;Homo sapiens

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TABLE 2

2451/3461

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TABLE 2

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Sequence=13539;DNA;Homo sapiens

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TABLE 2
2453/3461

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TABLE 2
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TABLE 2

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TABLE 2

2456/3461

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TABLE 2

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TABLE 2

2458/3461

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TABLE 2

2459/3461

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2461/3461

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TABLE 2

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TABLE 2
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TABLE 2

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TABLE 2
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TABLE 2

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TABLE 2

2468/3461

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TABLE 2
2469/3461

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TABLE 2
2470/3461

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TABLE 2
2471/3461

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TABLE 2

2472/3461

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TABLE 2

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TABLE 2

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TABLE 2

2475/3461

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2

2482/3461

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TABLE 2

2483/3461

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TABLE 2
2484/3461

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TABLE 2

2485/3461

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TABLE 2

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TABLE 2
2487/3461

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=13590;DNA;Homo sapiens

TABLE 2

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TABLE 2
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TABLE 2
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TABLE 2
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TABLE 2

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TABLE 2

2499/3461

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TABLE 2

2500/3461

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TABLE 2

2501/3461

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TABLE 2

2502/3461

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TABLE 2

2503/3461

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TABLE 2

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TABLE 2

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TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=13619;DNA;Homo sapiens

TABLE 2

2515/3461

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TABLE 2

2516/3461

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TABLE 2

2517/3461

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TABLE 2

2518/3461

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TABLE 2
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TABLE 2

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TABLE 2

2521/3461

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TABLE 2

2522/3461

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TABLE 2

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TABLE 2
2524/3461

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TABLE 2

2525/3461

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TABLE 2

2526/3461

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TABLE 2

2527/3461

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Sequence=13633;DNA;Homo sapiens

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TABLE 2

2528/3461

Sequence=13634;DNA;Homo sapiens

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TABLE 2
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TABLE 2

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TABLE 2

2531/3461

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TABLE 2

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TABLE 2

2533/3461

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TABLE 2
2534/3461

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TABLE 2

2535/3461

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TABLE 2

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AAN

Sequence=13647;DNA;Homo sapiens

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TABLE 2

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Sequence=13648;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

2540/3461

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TABLE 2

2541/3461

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Sequence=13652;DNA;Homo sapiens

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TABLE 2

2542/3461

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TABLE 2

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TABLE 2
2544/3461

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TABLE 2

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TABLE 2

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Sequence=13667;DNA;Homo sapiens

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TABLE 2

2550/3461

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TABLE 2

2551/3461

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TABLE 2

2552/3461

Sequence=13671;DNA;Homo sapiens

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TABLE 2

2553/3461

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TABLE 2

2554/3461

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NNNNNN

Sequence=13675;DNA;Homo sapiens

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TABLE 2

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Sequence=13676;DNA;Homo sapiens

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TABLE 2

2556/3461

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TABLE 2

2557/3461

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TABLE 2

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Sequence=13678;DNA;Homo sapiens

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TABLE 2

2559/3461

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TABLE 2

2560/3461

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TABLE 2

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Sequence=13681;DNA;Homo sapiens

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TABLE 2

2562/3461

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TABLE 2

2563/3461

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=13699;DNA;Homo sapiens

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TABLE 2

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TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

2582/3461

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TABLE 2
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TABLE 2

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TABLE 2

2585/3461

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Sequence=13708;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

2588/3461

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TABLE 2

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TABLE 2

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Sequence=13715;DNA;Homo sapiens

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TABLE 2

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TABLE 2

2592/3461

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TABLE 2

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Sequence=13721;DNA;Homo sapiens

TABLE 2

2594/3461

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TABLE 2

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TABLE 2

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TABLE 2

2597/3461

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TABLE 2

2598/3461

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TABLE 2

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TABLE 2

2600/3461

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TABLE 2

2601/3461

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TABLE 2

2602/3461

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Sequence=13736;DNA;Homo sapiens

TABLE 2

2603/3461

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Sequence=13737;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

2606/3461

Sequence=13740;DNA;Homo sapiens

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TABLE 2
2607/3461

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Sequence=13741;DNA;Homo sapiens

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Sequence=13742;DNA;Homo sapiens

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TABLE 2

2608/3461

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Sequence=13743;DNA;Homo sapiens
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TABLE 2

2609/3461

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Sequence=13744;DNA;Homo sapiens

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Sequence=13745;DNA;Homo sapiens

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TABLE 2
2610/3461

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TABLE 2
2611/3461

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TABLE 2

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TABLE 2

2613/3461

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Sequence=13748;DNA;Homo sapiens

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TABLE 2

2614/3461

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TABLE 2

2615/3461

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TABLE 2

2616/3461

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2617/3461

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TABLE 2

2618/3461

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TABLE 2
2619/3461

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TABLE 2

2620/3461

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TABLE 2

2621/3461

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TABLE 2

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TABLE 2

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TABLE 2
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Sequence=13766;DNA;Homo sapiens
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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=13770;DNA;Homo sapiens

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TABLE 2
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TABLE 2

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TABLE 2

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Sequence=13773;DNA;Homo sapiens

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TABLE 2

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TABLE 2
2633/3461

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TABLE 2
2634/3461

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TABLE 2

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TABLE 2

2636/3461

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TABLE 2

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TABLE 2

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TABLE 2
2639/3461

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TABLE 2

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TABLE 2

2641/3461

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Sequence=13789;DNA;Homo sapiens

TABLE 2

2642/3461

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TABLE 2
2643/3461

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TABLE 2
2644/3461

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TABLE 2

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TABLE 2
2646/3461

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TABLE 2
2647/3461

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TABLE 2
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TABLE 2
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TABLE 2

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TABLE 2

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Sequence=13802;DNA;Homo sapiens

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TABLE 2
2653/3461

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TABLE 2
2654/3461

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TABLE 2

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TABLE 2

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Sequence=13807;DNA;Homo sapiens

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TABLE 2

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TABLE 2
2658/3461

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TABLE 2

2659/3461

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TABLE 2

2660/3461

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TABLE 2

2661/3461

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TABLE 2

2662/3461

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TABLE 2

2663/3461

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Sequence=13817;DNA;Homo sapiens

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TABLE 2
2664/3461

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TABLE 2

2665/3461

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Sequence=13819;DNA;Homo sapiens

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Sequence=13820;DNA;Homo sapiens

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TABLE 2
2666/3461

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Sequence=13822;DNA;Homo sapiens

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Sequence=13823;DNA;Homo sapiens

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TABLE 2

2667/3461

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TABLE 2
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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=13833;DNA;Homo sapiens

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TABLE 2
2674/3461

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TABLE 2

2675/3461

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Sequence=13838;DNA;Homo sapiens

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TABLE 2

2676/3461

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TABLE 2

2677/3461

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TABLE 2

2678/3461

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Sequence=13844;DNA;Homo sapiens

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TABLE 2

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TABLE 2
2680/3461

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TABLE 2
2681/3461

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TABLE 2

2682/3461

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TABLE 2

2683/3461

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TABLE 2
2684/3461

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TABLE 2

2685/3461

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TABLE 2
2686/3461

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TABLE 2

2687/3461

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TABLE 2
2688/3461

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Sequence=13869;DNA;Homo sapiens

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AAATATTTTCTTAGGTTAGTTGGCTACTTAAATTTCTTTTTCTGAAAACTTTGTATTTAT
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GTACTTTTGATAGACCAGAATCTTTGACTTTTATTTAGTGAGATTTATCCATCTTTTTCT
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Sequence=13870;DNA;Homo sapiens

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GCTTTTCGCTGACTACATTCAGCCCGTCTGGTAAACTTGTCCAGATTGAATATGCTTTGG
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TABLE 2
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Sequence=13871;DNA;Homo sapiens

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TABLE 2
2690/3461

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Sequence=13872;DNA;Homo sapiens

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Sequence=13873;DNA;Homo sapiens

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TABLE 2

2691/3461

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Sequence=13874;DNA;Homo sapiens

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Sequence=13876;DNA;Homo sapiens

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Sequence=13877;DNA;Homo sapiens

TABLE 2

2692/3461

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Sequence=13879;DNA;Homo sapiens

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TABLE 2

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Sequence=13880;DNA;Homo sapiens

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TABLE 2
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TABLE 2

2695/3461

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TABLE 2
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TABLE 2
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TABLE 2

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TABLE 2
2699/3461

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

2710/3461

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TABLE 2

2711/3461

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TABLE 2

2712/3461

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TABLE 2

2713/3461

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TABLE 2

2714/3461

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TABLE 2

2715/3461

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Sequence=13918;DNA;Homo sapiens

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TABLE 2

2716/3461

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TABLE 2

2717/3461

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Sequence=13921;DNA;Homo sapiens
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TABLE 2

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TABLE 2

2719/3461

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

2725/3461

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Sequence=13936;DNA;Homo sapiens

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Sequence=13937;DNA;Homo sapiens

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TABLE 2

2726/3461

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Sequence=13938;DNA;Homo sapiens

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Sequence=13939;DNA;Homo sapiens

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Sequence=13940;DNA;Homo sapiens

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TABLE 2

2727/3461

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Sequence=13941;DNA;Homo sapiens

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Sequence=13943;DNA;Homo sapiens

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TABLE 2

2728/3461

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Sequence=13944;DNA;Homo sapiens

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NNNN

Sequence=13945;DNA;Homo sapiens

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TABLE 2

2729/3461

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TABLE 2

2730/3461

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Sequence=13946;DNA;Homo sapiens

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Sequence=13947;DNA;Homo sapiens

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TABLE 2

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TABLE 2

2732/3461

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TABLE 2

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TABLE 2

2734/3461

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TABLE 2

2735/3461

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Sequence=13960;DNA;Homo sapiens

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Sequence=13961;DNA;Homo sapiens

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TABLE 2

2736/3461

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TABLE 2

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TABLE 2

2738/3461

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TABLE 2

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TABLE 2

2740/3461

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TABLE 2

2741/3461

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Sequence=13970;DNA;Homo sapiens
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TABLE 2

2742/3461

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TABLE 2

2743/3461

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TABLE 2

2744/3461

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TABLE 2

2745/3461

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TABLE 2

2746/3461

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Sequence=13986;DNA;Homo sapiens

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Sequence=13987;DNA;Homo sapiens

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Sequence=13988;DNA;Homo sapiens

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TABLE 2

2747/3461

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Sequence=13989;DNA;Homo sapiens

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Sequence=13990;DNA;Homo sapiens

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TABLE 2

2748/3461

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Sequence=13994;DNA;Homo sapiens

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Sequence=13995;DNA;Homo sapiens

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TABLE 2
2749/3461

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Sequence=13999;DNA;Homo sapiens
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TABLE 2

2750/3461

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TABLE 2

2751/3461

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Sequence=14005;DNA;Homo sapiens

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Sequence=14006;DNA;Homo sapiens

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Sequence=14007;DNA;Homo sapiens

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Sequence=14008;DNA;Homo sapiens

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TABLE 2

2752/3461

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Sequence=14009;DNA;Homo sapiens

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Sequence=14010;DNA;Homo sapiens

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TABLE 2

2753/3461

Sequence=14012;DNA;Homo sapiens
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TABLE 2

2754/3461

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Sequence=14015;DNA;Homo sapiens

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Sequence=14016;DNA;Homo sapiens

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TABLE 2

2755/3461

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TABLE 2

2756/3461

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Sequence=14025;DNA;Homo sapiens

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TABLE 2

2757/3461

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TABLE 2

2758/3461

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TABLE 2

2759/3461

Sequence=14030;DNA;Homo sapiens

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TABLE 2

2760/3461

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Sequence=14032;DNA;Homo sapiens

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TABLE 2

2761/3461

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Sequence=14037;DNA;Homo sapiens

TABLE 2

2762/3461

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Sequence=14038;DNA;Homo sapiens

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TABLE 2

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TABLE 2

2764/3461

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TABLE 2

2765/3461

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2766/3461

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TABLE 2

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Sequence=14049;DNA;Homo sapiens

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TABLE 2

2768/3461

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Sequence=14050;DNA;Homo sapiens

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Sequence=14051;DNA;Homo sapiens

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TABLE 2

2769/3461

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TABLE 2

2770/3461

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TABLE 2

2771/3461

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Sequence=14059;DNA;Homo sapiens
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TABLE 2

2772/3461

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NNNNNNNNN
Sequence=14061;DNA;Homo sapiens
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TABLE 2

2773/3461

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Sequence=14062;DNA;Homo sapiens

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Sequence=14063;DNA;Homo sapiens

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Sequence=14064;DNA;Homo sapiens

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TABLE 2

2774/3461

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Sequence=14065;DNA;Homo sapiens

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Sequence=14066;DNA;Homo sapiens

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Sequence=14067;DNA;Homo sapiens

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TABLE 2

2775/3461

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NNNNNNNNN

Sequence=14068;DNA;Homo sapiens

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Sequence=14069;DNA;Homo sapiens

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Sequence=14070;DNA;Homo sapiens

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TABLE 2

2776/3461

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TABLE 2

2777/3461

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Sequence=14071;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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Sequence=14078;DNA;Homo sapiens

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TABLE 2

2784/3461

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TABLE 2

2785/3461

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Sequence=14082;DNA;Homo sapiens

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Sequence=14083;DNA;Homo sapiens

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TABLE 2

2786/3461

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Sequence=14084;DNA;Homo sapiens

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TABLE 2

2787/3461

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TABLE 2

2788/3461

Sequence=14086;DNA;Homo sapiens
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TABLE 2

2789/3461

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TABLE 2

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TABLE 2

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TABLE 2

2792/3461

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TABLE 2

2793/3461

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

2799/3461

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TABLE 2

2800/3461

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TABLE 2

2801/3461

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TABLE 2

2802/3461

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TABLE 2

2803/3461

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Sequence=14115;DNA;Homo sapiens

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TABLE 2

2804/3461

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Sequence=14116;DNA;Homo sapiens
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TABLE 2

2805/3461

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Sequence=14117;DNA;Homo sapiens

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Sequence=14118;DNA;Homo sapiens

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TABLE 2

2806/3461

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TABLE 2

2807/3461

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Sequence=14119;DNA;Homo sapiens

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Sequence=14120;DNA;Homo sapiens

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TABLE 2

2808/3461

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Sequence=14125;DNA;Homo sapiens

TABLE 2

2809/3461

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Sequence=14126;DNA;Homo sapiens
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TABLE 2

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TABLE 2

2811/3461

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Sequence=14131;DNA;Homo sapiens
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TABLE 2

2812/3461

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TABLE 2

2813/3461

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TABLE 2

2814/3461

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Sequence=14137;DNA;Homo sapiens

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TABLE 2

2815/3461

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TABLE 2

2816/3461

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TABLE 2

2817/3461

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TABLE 2

2818/3461

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TABLE 2

2819/3461

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TABLE 2

2820/3461

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TABLE 2

2821/3461

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TABLE 2

2822/3461

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TABLE 2

2823/3461

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TABLE 2

2824/3461

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Sequence=14166;DNA;Homo sapiens

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TABLE 2

2825/3461

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Sequence=14167;DNA;Homo sapiens

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Sequence=14168;DNA;Homo sapiens

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TABLE 2

2826/3461

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Sequence=14169;DNA;Homo sapiens
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TABLE 2

2827/3461

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Sequence=14172;DNA;Homo sapiens

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Sequence=14173;DNA;Homo sapiens

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Sequence=14174;DNA;Homo sapiens

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TABLE 2

2828/3461

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Sequence=14175;DNA;Homo sapiens
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Sequence=14177;DNA;Homo sapiens
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TABLE 2

2829/3461

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Sequence=14178;DNA;Homo sapiens

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Sequence=14181;DNA;Homo sapiens

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TABLE 2

2830/3461

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Sequence=14182;DNA;Homo sapiens

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TABLE 2

2831/3461

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TABLE 2

2832/3461

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TABLE 2

2833/3461

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TABLE 2

2834/3461

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TABLE 2

2835/3461

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Sequence=14196;DNA;Homo sapiens

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Sequence=14197;DNA;Homo sapiens

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Sequence=14198;DNA;Homo sapiens

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TABLE 2

2836/3461

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TABLE 2

2837/3461

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Sequence=14202;DNA;Homo sapiens

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Sequence=14203;DNA;Homo sapiens

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TABLE 2

2838/3461

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Sequence=14207;DNA;Homo sapiens
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TABLE 2

2839/3461

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Sequence=14208;DNA;Homo sapiens

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Sequence=14209;DNA;Homo sapiens

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TABLE 2

2840/3461

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Sequence=14210;DNA;Homo sapiens
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TABLE 2

2841/3461

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TABLE 2

2842/3461

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TABLE 2

2843/3461

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TABLE 2

2844/3461

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TABLE 2

2845/3461

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TABLE 2

2846/3461

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Sequence=14230;DNA;Homo sapiens

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TABLE 2

2847/3461

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TABLE 2

2848/3461

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TABLE 2
2849/3461

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TABLE 2

2850/3461

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TABLE 2

2851/3461

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ATGAATATAAAGGTAGTCCATAAAACGTGATTTGTAGATTTTAAATCTGAAAAACATTCT
CATATGCACCATAAATTTTGTCACTGTTCTATTTGATTTGCTTATCTCTACGGTGAATGA
ATTGTTTCTCTGAAGAGGATGGGGAAGCTTTCCCATTTAACAGGATAAAACTGAGGGAAA
TGAGAAATATAATAAGAAAGAGAGATTAAAATCTTCTGAAATTGGTTAATTGATTGCCTG
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Sequence=14240;DNA;Homo sapiens

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Sequence=14241;DNA;Homo sapiens

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TABLE 2

2852/3461

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Sequence=14244;DNA;Homo sapiens

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ACAGAAAGTTTCTATTTGATGACAGTGGAAGTTATTCACTGTAGTTTTTTAGTAGAGAGA
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Sequence=14245;DNA;Homo sapiens

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TABLE 2

2853/3461

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GCCTTTCACCCCNNNNNNNNN

Sequence=14247;DNA;Homo sapiens

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TTATGCATATTTGTGATGTTCTAATCCATTTTTAGGGAATAGGATATTATATAAAGCACC
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TGTAATTATTTTGCTAATGCTGAAATTTTTTTTCAGACAAGTGGATCCAAAATCTACCAA
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Sequence=14251;DNA;Homo sapiens

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TABLE 2

2854/3461

Sequence=14252;DNA;Homo sapiens
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Sequence=14253;DNA;Homo sapiens
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TABLE 2

2855/3461

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Sequence=14254;DNA;Homo sapiens

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GTGTGTCAGAGCCATTAGCGGCTGAGCAGACCGCTGAGCATGTAGATTTCTAGGTCAGGG
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Sequence=14255;DNA;Homo sapiens

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TABLE 2

2856/3461

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Sequence=14257;DNA;Homo sapiens
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Sequence=14258;DNA;Homo sapiens
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TTCTCAAACTGCTGAATAAAATGCCATAGTAAGTCCAACTATATGGTTTCATGTAGGGTA
AAGTAACCATTGTGGAAGGATTACGATAAAACTGTGTGACAATAAATAGAATAAAAGATG
GCAAAACAATCTGTAAATTACAAAGTGTTATAAAAATGCATTGAATTTCTAGTGTTCTTA
CACTTTCATATTTCTCATTGGCACATCAATCAGACCTTGCCTTCCTAAAGTGGGAGGAAG
AAAAAGGCTGCACCTGTCTGGGCTGAGGGTCTGGGCAGAACACTAGCAAAACTTTTAATA
AATCTTCATGTCACCACCCCAAACTCATTAGGGCCCAAACTTATTTCATTATCTTCACTA
TCCCCATGGTTTTCCTCTCCATTATTTTTCATGCCCATCTTCAGCACTTTCATGTTTCTA
GTCTTAGAAAACCCAAAGTTAAAAAGGAGAGCAACTTAAGAGTGTTCTATACCGCTTTTC
TCTCCTTCATCTGTGGCCAAGGCTATTTTTTCTTTCTTCTAATTCTTGCCCATATTCAGT
TCTTCTCTCCATTTCCATTACTAAAACCTTGGACTGAATTCCCCTTAACTCATGCCTGGA
TGACCACAGCTAGCCTCTCTGACCACTCTCTCTTCAGCCTAACCCACCCTTTATATACTG
CCAGAAGAACCTTCCAATAACAGCAATTGTCTTCCTAATGCACCATGGCCCATGCCCACT
GCGTCAAATTCAAATTCTCCCACCAGAGGGAGAGGCATTTCAAGCCATTCATAATCTGGC
CCCCTTCCAAAGACCCTACCTGTCACAGCCCACCAGCTTCAGGCACCAAAAATCCCATCG
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AGCCACGGGAAGTTCGTGCTGTGTGCAGGGAAAGGAGCCTGGCTTCTTTAGTTCCTGTGT
GGTGACCTGGTGTTCAATCTGTGCGGTGGGGGCCCATTAGCAGGATCCCCTCTTGCTTTG
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Sequence=14259;DNA;Homo sapiens
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CTGAGGCCCCCTCCTGCTTTGTTCTGCCATCTAAGGTGATTACAATGCTCAAGTCTCTTT
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GGAGCTCCTTTTGAAGGAAATTATTTGAAACTTGTTATTCTTGCCAAGTGATAGACAACA
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CCATTTTAAGAGTAATTGCTTACCACTTTCTCTTCCAAAATTTAGACTTACCAAGTATAC
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TABLE 2

2857/3461

TCCTTTAAATTAATATAATGAAATTGCTGGCTATCACTTTTAAGGTCATTAACGTGTTCA
GAAATGAGTTCAAAACCGATTAAAACTGTTTGTGATGCCTGCTTAATTACTCTGTCTTTG
AATAATTCTAATGGTGGGAATTTCTTTTGATTTCTTTCTGTTTACCTCAAATTGCACATC
TCAACACTAATTGCAGTCAGTGTTTAAAAGCTGGTAAGAAAAGAAAATAGTTTTAGCATA
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GTTCAATGCAAAAAGGAAAAAAAACAAAATTGGAAATGAACCTGNNNNN

Sequence=14260;DNA;Homo sapiens

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GTAGAAGATAGCACCATGCCGATTCGTCGAACTGTGAATTCTACCCGGGAAACTCCTCCC
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GCTATTGGTATGTCATTGCCAGACCATGAGGGCAAAGTAAGGTTTCATCTTCTCTATAAA
GGTTTTTGGAAGGTGAAAATGTTATGTTGGAATTAAAAACAAAAATGTTTGGGGATGACA
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AGAATGGAAAACGTGGGCCTTTAGAATAGACAGTGGAAGGTTCATCCAGAAATCATCTGG
AGGCCTTCAGAGAAGCAAATGGTGATCTGTTGATCTATAACAGGTATTGGTAGAGAGAAG
ATTGGCCAGTCAGTGGTGGGAGCATAACAAATGGAAAGAAACATAGACCCATCAACATGG
AGTACTAATGCTCCTTTATGGCATGTATAACCACCTCTTCTCCTTTTCCCGTCTTTATTT
TTCTTCTCATGATCTTTTTGGTTTTTTTCCTTATCTTTTCCCTTTTTTTCCTTTCTCTCTT
GCCTTTTATCTCAGGTTTTTCAGGGATAACACACTGTGCTGCCTCTGTTGTGGCTGTTAG
AATCAATTATTTGCTGACCAGCATGTATTAGGAATAGAGGGCCGGGCACAGTGGCTCACA
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AGACCAGCCNNN

Sequence=14261;DNA;Homo sapiens

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TTACTATTCATTTATCCATTCAATATTTAGAGTAGCTAACAAGACAAAACAAAATAATTG
CTGCTTTCGTGGCTTATAGTGGGGAAGGGTGATAAACACCATGATGAAGGAGAGAAGAGT
GCTATTGTGGGGGCACAAATTATGGGGATCTGATCCTTTTTTTTAAGGGAGGCATCAGGG
AAAGTCTCTCTGAGGAAGTAAGGTTGATTCTCAAAGGACAGATGGCAGAGACCCGGGTTA
AGGGGTGGATTGGCACCAGGCTGAAGTCTGGTGCTCACAAGAAACTAAGTGACAGCATAG
GTTGGTATAGTGTGTAAGATCACCTTATTTTCTTCTTCAGGGTAATTTTTGAGAACCTGG
GTTATATTTGCATCTTACTCN

Sequence=14262;DNA;Homo sapiens

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TGGGAACAAGGTGGGTTATAAATGCACACGTTCCTACACAGGATGTTGTTAGTCATTTCA
TAAGGTCTCTTGTGGAGGAGATTAGCCAATAGCTTCTTTTGTAACCTTAGGCACACCCTC
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Sequence=14263;DNA;Homo sapiens

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GGGACAAGAAAACACAAGTCATTATCATTGAGAAATCTGAAGCAAATTGAGGCAGGTTGT
CACCTTTCACCAGGAAACAAATTAGCCCTGTCTTTAAAAAGACTTCTTTCTCTCTCTGCT
GACTGGGGATTCCTGTCAACTGCCAATGAAATAGGGAGAGTGTAGATTAATGGCACTGTA
ACAGTGGCCATGAAACAACCATAAAGCCGTTTTCTAATTTTTATGAATATTTTTAATTGA
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TABLE 2

2858/3461

TGCCATCTTCCAGCTGAAATCAGTAGGTGCACCAGTCTGTTTGGGGAAAGTTCTGTGTAT
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GAACTCCTTGCAACTANNNNN

Sequence=14264;DNA;Homo sapiens

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CATAAAATATAATAGATGCTGATTCTGGCCAAGATTGACAAAATCTAATGCAGCCTACAT
GTCTCAGTGGTTAATACTAAGACTCTGAATAAAATACAAGCAAATAAACACCTTTGAGGA
CTTTGAACAGTAAATAACAGAGGGCGGGTTTAAGGGTAATCAAAACTTGAAGAAACATCT
ATATGGTAGTGGTGAATTTATTATATTTTTCTTGCTTATCTCCTAGGCTGTGACCTAAAG
ACTATCTCAATGGGAAAATGTGTAACAGGCAAATTTAGCAAAACCTATGGGGAACCACAT
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Sequence=14265;DNA;Homo sapiens

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GCTACGATTCATGATAGCCCAGGCAAGGTCACATCATGTATTTTTATTTTACACTGTATA
GTTCATTCTTCTCAATCCCACTAGATCAGACTCTTTGGGATACTAGGATTGGCCTATTTG
ATGGTGAGCTCACTACATCCATTTAGATGTTGTGTCCATGCAATCATTTTAGTTCTCCTA
GTTTCTACCTATCACGTTGTCATTTTCCCTTCTTTATCATCCTGGGTAGCTGAGACCCCA
CATAAATATATACCAGAAAAATGTTGTGGTCTTTTCTAAACTCTCTGAGGCATCTGTTGT
CAATGTGATGTTGTTTTTTGTTTCCAGTCCAAAATATATCAAAGTAAAATTTAACTCCAC
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GGGATGAATATCTGGCTAGTGCTGTGCTCAGCTGAGTTATTAATAGGGCCTTCTGAGTCC
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GGGCTCAGGTCTCTCATTTGTAAAATGGGACATTTAGGTCAGATCAGCATTTTCAAAAGT
GTGACATGTTAGTAAATAAGATGATTTTATGTGGTTGACAGATGAATGTATTACCTTTAG
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Sequence=14266;DNA;Homo sapiens

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GTGCATTATTGGCCCTTGGTGTGATGACGAGAGAGCAGGAAGGAGGTCTCCAGCTCCTTT
TCTGAGTTCAGATGTTCCCTAGCCCAAGAAGACTAATCATGCACCTGGTTTCCTGCTCTG
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Sequence=14267;DNA;Homo sapiens

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GAATATCAAAATTAATATATTCAAGATAACAGAATTAAATCAGTATANNN

Sequence=14268;DNA;Homo sapiens

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TABLE 2

2859/3461

GTTATTTAAAAACTAGGCCCACCTATTTTCTAAGGCACTTTTCATTTGTAATATCACTGA
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Sequence=14269;DNA;Homo sapiens

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GAGTAGCATCATTCCCTAAGATGAAGATGAGATCTTGTATAAAAAGGAAAAAGGTGAGAC
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Sequence=14270;DNA;Homo sapiens

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CTTTCTGTACATCCTACCAGATATTTCTGTGGGCAAAGGATATGCACCATATAACATGTG
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GTATGTTTTTTTTAGACANN

Sequence=14271;DNA;Homo sapiens

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Sequence=14272;DNA;Homo sapiens

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TGACTGGAACACAGTTGAAAAAATATTAAACTGATTTTGTGACGATGAATTTAGGAATTC
CAGTTAGCTAAGGATTAGAAAAACTGATTTTCAGAGGCATACTCTGATCCAGAATGGGGC
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ACCNN

Sequence=14273;DNA;Homo sapiens

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ACCTCTTTAGGGCACGCCAGAAGTGTGCAGGAGATAACATATCTGGCTGAAACTTTCAAT
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ACCCTGAGGAATGTTCTTCAGGGTTCCACAGGACTCCTCTGAGGGACTTGTAACAGTTCC
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TABLE 2

2860/3461

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Sequence=14274;DNA;Homo sapiens
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Sequence=14275;DNA;Homo sapiens
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GCCCATTCCTCTACTGAAAGATCTTGTTTCACTTTCTCACTATAAGAATAGGAATAAGAT
GTTAAAGCTCACCAACATCACCTTCTCAAGGGTGGTCACATACCTTTGCCCCTTCCACCA
ACTGGCCAAGGGGGAGAGTCATGCTCTTGGGAAGAATGAGCCATCCAGTTTTGCTCACCA
GCTTGGGCTTTACTTTAGTTCAGTACTGTTTTTATCAGACCCGTAACTGCTGGCTCTACT

TABLE 2

2861/3461

TAGAGTGACAGTTTTGCTGAAGATTCTTACCCCCACCTCTCCTGACATCCTCTAAGCTCT
TGCCTGGAGCCAAGAGGCCTGGTGGTGAAGTAA
Sequence=14276;DNA;Homo sapiens
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TGGTGACTTTTGTGATTGCACAAGTCTAGAGATGCCCCAAATGACATTGACTTAGACATC
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TABLE 2

2862/3461

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TABLE 2

2863/3461

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TABLE 2

2864/3461

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TABLE 2

2865/3461

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TABLE 2

2866/3461

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TABLE 2

2867/3461

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Sequence=14293;DNA;Homo sapiens

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Sequence=14294;DNA;Homo sapiens

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TABLE 2

2868/3461

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TABLE 2

2869/3461

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Sequence=14302;DNA;Homo sapiens
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TABLE 2

2870/3461

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TABLE 2

2871/3461

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Sequence=14308;DNA;Homo sapiens

TABLE 2

2872/3461

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AAAACCCTCATAAACATGTTGGCANN

Sequence=14309;DNA;Homo sapiens

ACTTAAAAAATTTTTAATGTAAAATACCCCTTTAAGGATAGAATTTAGGGCCTTGAAATT
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ACACTGTGTTGTAATAATGTGGAAAGAGAAACAAAAACTTTCCTTAATGTAATGAGTTTC
CATTATCTGCCTAATCTAAGGTTTGTAAGTCTACATTGTCAGGATTTATATTGAGGAGAT
AGGGGGTGTCATTTTCTGTACAAGATAGTTTTAAGTATGTTCTAAATATTTGTCTGCTGT
AGTCTATTTGCTGTATATGCTGAAATTTTTGTATGCCATTTAGTATTTTTATAGTTTAGG
AAAATATTTTCTAAGACCAGTTTTAGATGACTCTTATTCCTGTAGTAATATTCAATTTGC
TGT

Sequence=14310;DNA;Homo sapiens

ACACTGGCAGCCTCTACTGGCCATTGCAAAGAGCAGCATTGTCCTCTGTTCTTTCCATTC
CAGGTTGCATATGCTTTTACTTGGGTTTAGCTCTTTCTTCTTTGGTCCTCACCCTCTTTG
TTGTCCTCTTTTGAAGACTAGTTATTCTGTTGGATGTCTTGATTTATAATTAATAAAGAG
CTACTAGTCCAGTATTTTCATTAATAAATTAATATCATAAGTGAATGGAATTCTTCAGGA
CCTTAGAAGAAGTTATGAATATAACCTTTCCTTGAGAAGTAATTTTCATGTAAGAGGGAA
GATAGATTTATCTTTATGTAGGTTTTAAAATACTTTCTCAGTTGCAAGCCTTAATGTATG
ATATAGAGATTAGTCTTTTACTTATGACTGACAAAAAACCCTGATGCCTTGAAAGAAAGC
CTTGGCTCAGTGATAGACTTAATTACACACACACACACGT

Sequence=14311;DNA;Homo sapiens

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TTTCTGGCCTAATTTTGTGACTGCTGTTGAATTCCATGTTACTTGAAAAGAGTATTTCAA
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AAAAATTATTCTCTAAGCACATGACTGTTATCCAATATCTTAACAAAAAAGGAGGAGATC
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CAATGACACTTTTAAAATTTGTACCTC

Sequence=14312;DNA;Homo sapiens

ACGCGGGCACTCCTCTTCTCAGAACTCGATCAAGATGTTATTCACAGGTAACAGTGACCT
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GCAAAGACTTAGCCATCTACCATGGCCAAGCAAAGGAACCTGCATAACCCCCAATAGGCC
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Sequence=14313;DNA;Homo sapiens

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TTTACTTAAAGATACTATTTATGTATTCAGCTACAGAGATGAAATAGCATTTTATGTGTT
AATTGTTTTGGCTATAAAATTTAAGTCCTTACAGCATTTGGGGATTATACACTTGGATTT
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TABLE 2

2873/3461

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Sequence=14314;DNA;Homo sapiens
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TCATTTCTGAGAGGTGTAAGGGTGTGATAAAAGGAAGATCACTGTAGGTATGAATAANTN
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Sequence=14315;DNA;Homo sapiens
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TATCTACTTTATCAGGACTGGCAAAAACAGACCTTACCACAAAGAAGAGCCCATATTATG
CATCTNCTGAACAAGCATGCACN
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CCAGCCAGTTATACATGTTATTTATAATCCCCACAGTAACACTGCAAGGTAGTTATCAAC
TCTATTTTGCAGTTGAGGAAATTGAGGCTAAGAAATATGCCATTTAACTTTTGCTGCATA
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TABLE 2

2874/3461

AGGTTTTGTTCAGGT
Sequence=14318;DNA;Homo sapiens
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Sequence=14319;DNA;Homo sapiens
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TABLE 2

2875/3461

TCAGTTCCACCAATTTATTGGGAGTGATGTTAAATTTCAGTGCTATGGAGTTTAGGGTGT
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TCCCAGTATGAGTCCTTGTAGCTACAGCTGAGGCTGTCTCTGCATTTTGTTTGGCTTGTT
TTTTCTTTTTCAGTCGAGCAAAATAACTTTGTTTCCGTTCCTTCTTCTCTTCCTTGGTAT
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Sequence=14320;DNA;Homo sapiens

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TAAATGTAAAACCCCAAACTACGAAAAACTTAGAAGAAAACCTAGACAATACCATTCAGG
ACAGAGGCATGGGCAAAGATTTCATGAC

Sequence=14321;DNA;Homo sapiens

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Sequence=14322;DNA;Homo sapiens

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GCNNNNNNNNNNNNNNNNNN

Sequence=14323;DNA;Homo sapiens

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Sequence=14324;DNA;Homo sapiens

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GTTTTCTTAATATTGAGGATCTTTCCCACTTTCCCTGAGCTAATGAGACACAGGTCTGTG
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TABLE 2

2876/3461

AAAGGGAAACATACTTTAGCTAATTTAAAGGTGTCTTATGTTATTTTGCTTATTGAAAAA
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Sequence=14325;DNA;Homo sapiens

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GTGTATGAGCTTAATGATAAGAACTGGAAATCCTTTTTTCTCAAGGACGTGGTCCAGATTA
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GTGTCAGGACAAAATACTAACACATTATGAAAATGATAGTACCNN

Sequence=14326;DNA;Homo sapiens

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Sequence=14327;DNA;Homo sapiens

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CTTCTTTGCATGTCATCCTCCACATCTTTTAGCATGCCTGTAACTCGAAGATCTGTCACA

TABLE 2

2877/3461

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Sequence=14328;DNA;Homo sapiens

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Sequence=14329;DNA;Homo sapiens

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GCCACAGGATACTTTTTACCATCAGAGCAATGATGTCAGTTTTTCCCTTCCAACTGTGCG
GACGCGTGGGTCGACACCT

Sequence=14330;DNA;Homo sapiens

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Sequence=14331;DNA;Homo sapiens

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TABLE 2

2878/3461

ATTAAAAAAATTTTAAGTATCTAGGAGTATTTAAATCCTTTTCCCATAAATAAAAGTACA
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CCTATCCTGAAGATGTGATACACTGAATGGAAATAAATAGATGTAAATAAAATTGAGTTC
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Sequence=14332;DNA;Homo sapiens

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GCTTGCTCCACCTCAATAAAATGGCCTTTCACACACATCATCCTTGCAGGACACTCTGCC
CAAATTATTTAACCTTGAACACAAGAACCTACCCTGAGGTTGCTGAGATTAAATGGAATA
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Sequence=14333;DNA;Homo sapiens

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CTTAATAGCTCTTACCTGGATTACAACAGCTTTGTAACTTATTTTTGTCCCAAGGTTCTC
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AN

Sequence=14334;DNA;Homo sapiens

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AGTCTTTCTATCTTTTGTTCATAATCTTTGAGTAGTCTCTTCACTTCTTGTTGACTCTTC
TGTGAAGGCAGCTCTTCACACAGCTCCCTCAGGACTTCCATGTGGTGATTAAGCTGGTAC
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TABLE 2

2879/3461

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Sequence=14335;DNA;Homo sapiens

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TABLE 2

2880/3461

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CCGGGCGGGCCGCTCGAAAGGGCCGAATTCCAGCACACTGGGCGGCCGTTACTAGNN

Sequence=14336;DNA;Homo sapiens

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CATTTAACTTCTCTTCTCTTACCTTGCAGAGCATTTTGATGATGAGTCCAGCTGAAAATA
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TGGCACATCAAGCTTACN

Sequence=14337;DNA;Homo sapiens

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TTNNNN

Sequence=14338;DNA;Homo sapiens

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TGAGAGCAGTGACTCAGAAAATTCAAATAAGAGAATAATAGATAATTCCTCAGAACAGAA
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TABLE 2

2881/3461

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Sequence=14339;DNA;Homo sapiens

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Sequence=14340;DNA;Homo sapiens

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GTTGTCTA

Sequence=14341;DNA;Homo sapiens

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Sequence=14342;DNA;Homo sapiens

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Sequence=14343;DNA;Homo sapiens

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TTCAGGAGATTTTCCATCCTTTTAAAAATTCCACACACAAATCACCAGGGCTCCTCAGGA
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Sequence=14344;DNA;Homo sapiens

TABLE 2

2882/3461

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Sequence=14345;DNA;Homo sapiens

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Sequence=14346;DNA;Homo sapiens

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Sequence=14347;DNA;Homo sapiens

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Sequence=14348;DNA;Homo sapiens

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CTGCAGGAAGAGAAAAAAATAGCTAAGACCAATGGTGTACTCTTCAGTAATACTCTACTT
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ACTGACGTTTATACTTTCCTCAAATTTTGGCAGATTTCCCCAAATATAAACAATGGAGAC
AATTTATTCACACAATCATTTCCTAGAACTTCATAAAATAATGAAGTAACACCGTAATGG
TGAAGGTTGTGGTGAGGAAAAGAAGGTTGGGGAAGAAAGGAATGCTTCTTTTTTATTTTCT
ACCCACTCGACCTCACCAAATTACTAGGGCTCAATTGAGCCCTTAGCAAACAAAACAATC
AAAAATGTATTTTATGCAAATGAAGCTCTTTTTTAGACCAAGTACCTCCCAACTGCAGTGC

TABLE 2

2883/3461

TTCCCGCAGCACTCCAAGAAGAGTATTCCAGGATAAGCAGATTCTCTAAGTCTCAGTGCA
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NNNNN

Sequence=14349;DNA;Homo sapiens

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AGCTGTTCTTCCACTTCAAGAAATCACAGTGGACACTGTTCCTATGGTTACCAGGAAGGA
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Sequence=14350;DNA;Homo sapiens

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Sequence=14351;DNA;Homo sapiens

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GAAAAACATTGGCAGTTTGAGAGTAAAATAAACATATATAACTCACCAACTGACTGATCA
GGATAATTATCTGGGAGTCTCTGGGGGGTAAAAAGCCCCCAGTTTGTTCCATTTTACAACT
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GTGT

Sequence=14352;DNA;Homo sapiens

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TCTTAAGGGGACAAATCTCCTAATTTAAGACCTAGATAAACCCAAGATTTACCAGTTTTT
TGAAAACCAGGGATGTTACTTTAAATTCACAAGAAACACCATTCTCTTTCAGATTTTATT
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Sequence=14353;DNA;Homo sapiens

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Sequence=14354;DNA;Homo sapiens

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TABLE 2

2884/3461

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CAGCAAN

Sequence=14355;DNA;Homo sapiens
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Sequence=14356;DNA;Homo sapiens
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Sequence=14357;DNA;Homo sapiens
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TABLE 2

2885/3461

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Sequence=14358;DNA;Homo sapiens

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Sequence=14359;DNA;Homo sapiens

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GCAAAGAGCTCAAAGGTGGAGTCCGGAGTGGTGAGAAAGCAAACACTGTGGGCTCTGGGC
AACTCAGGTGGGTATCTTCTGCCTCCCATCTTTTGGGTGGTAAGCCCTTTTCCTGAAGCC
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TABLE 2

2886/3461

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Sequence=14360;DNA;Homo sapiens

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Sequence=14361;DNA;Homo sapiens

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Sequence=14362;DNA;Homo sapiens

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ACTGAGTGGGTTTTGGGAAGATATTATACTTGAGAAAGGACTTGGATTAGTTGGGTTGCC
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Sequence=14363;DNA;Homo sapiens

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TABLE 2

2887/3461

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Sequence=14364;DNA;Homo sapiens

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Sequence=14365;DNA;Homo sapiens

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TABLE 2

2888/3461

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Sequence=14366;DNA;Homo sapiens

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Sequence=14367;DNA;Homo sapiens

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Sequence=14368;DNA;Homo sapiens

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Sequence=14369;DNA;Homo sapiens

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TABLE 2

2889/3461

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Sequence=14370;DNA;Homo sapiens

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Sequence=14371;DNA;Homo sapiens

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Sequence=14373;DNA;Homo sapiens

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TABLE 2

2890/3461

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Sequence=14375;DNA;Homo sapiens
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TABLE 2

2891/3461

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Sequence=14378;DNA;Homo sapiens

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TABLE 2

2892/3461

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Sequence=14381;DNA;Homo sapiens

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TABLE 2

2893/3461

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TABLE 2

2894/3461

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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=14391;DNA;Homo sapiens

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TABLE 2

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Sequence=14393;DNA;Homo sapiens
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Sequence=14394;DNA;Homo sapiens
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TABLE 2

2899/3461

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Sequence=14395;DNA;Homo sapiens

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TABLE 2

2900/3461

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Sequence=14396;DNA;Homo sapiens

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Sequence=14397;DNA;Homo sapiens

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TABLE 2

2901/3461

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Sequence=14398;DNA;Homo sapiens

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Sequence=14400;DNA;Homo sapiens

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TABLE 2

2902/3461

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Sequence=14401;DNA;Homo sapiens

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Sequence=14403;DNA;Homo sapiens

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Sequence=14404;DNA;Homo sapiens

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TABLE 2

2903/3461

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Sequence=14405;DNA;Homo sapiens

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Sequence=14408;DNA;Homo sapiens

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Sequence=14409;DNA;Homo sapiens

TABLE 2

2904/3461

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Sequence=14410;DNA;Homo sapiens

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Sequence=14411;DNA;Homo sapiens

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Sequence=14412;DNA;Homo sapiens

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TABLE 2

2905/3461

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Sequence=14415;DNA;Homo sapiens

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TABLE 2

2906/3461

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Sequence=14416;DNA;Homo sapiens

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Sequence=14417;DNA;Homo sapiens

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Sequence=14418;DNA;Homo sapiens

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TABLE 2

2907/3461

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TABLE 2

2908/3461

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TABLE 2

2909/3461

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TABLE 2

2910/3461

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TABLE 2

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TABLE 2

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TABLE 2

2913/3461

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TABLE 2

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TABLE 2

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Sequence=14437;DNA;Homo sapiens

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Sequence=14438;DNA;Homo sapiens

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TABLE 2

2916/3461

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Sequence=14439;DNA;Homo sapiens

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ACTGA

Sequence=14440;DNA;Homo sapiens

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NNNNNNNN

Sequence=14441;DNA;Homo sapiens

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ACATGTTGCAGGAGAAATGGAGCAGGTACTTGTTACTCTTACAGATGTCTCAATTAATTT
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TABLE 2

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AAAATTGCTGTGCCC

Sequence=14442;DNA;Homo sapiens

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Sequence=14443;DNA;Homo sapiens

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Sequence=14444;DNA;Homo sapiens

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Sequence=14445;DNA;Homo sapiens

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TABLE 2

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GTTGAGGTCACTTTTACCNNNN

Sequence=14447;DNA;Homo sapiens

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TABLE 2

2919/3461

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CTGCTGCTTAAATGGTGAGATATGACATATCAACCACGTCAGTCCTACTCAGTCACTGGA
GCTCAGTCTATTTACAGTATTCTCATGCCTCCATCAGCACTTCTCCTCTCCCATGACTGC
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NNNNNNN

Sequence=14448;DNA;Homo sapiens

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GNNNNN

Sequence=14449;DNA;Homo sapiens

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Sequence=14450;DNA;Homo sapiens

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TABLE 2

2920/3461

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TABLE 2

2921/3461

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TABLE 2

2922/3461

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TABLE 2

2923/3461

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Sequence=14463;DNA;Homo sapiens

TABLE 2

2924/3461

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Sequence=14464;DNA;Homo sapiens

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Sequence=14466;DNA;Homo sapiens

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Sequence=14467;DNA;Homo sapiens

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TABLE 2

2925/3461

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Sequence=14468;DNA;Homo sapiens

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Sequence=14469;DNA;Homo sapiens

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TABLE 2

2926/3461

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Sequence=14472;DNA;Homo sapiens
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Sequence=14476;DNA;Homo sapiens
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TABLE 2

2927/3461

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Sequence=14477;DNA;Homo sapiens

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Sequence=14479;DNA;Homo sapiens

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TABLE 2

2928/3461

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Sequence=14480;DNA;Homo sapiens

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Sequence=14482;DNA;Homo sapiens

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TABLE 2

2929/3461

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Sequence=14484;DNA;Homo sapiens

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TABLE 2

2930/3461

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Sequence=14485;DNA;Homo sapiens
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Sequence=14486;DNA;Homo sapiens
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Sequence=14487;DNA;Homo sapiens
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Sequence=14488;DNA;Homo sapiens

TABLE 2

2931/3461

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Sequence=14489;DNA;Homo sapiens

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Sequence=14490;DNA;Homo sapiens

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TABLE 2

2932/3461

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Sequence=14491;DNA;Homo sapiens

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Sequence=14492;DNA;Homo sapiens

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TABLE 2

2933/3461

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Sequence=14496;DNA;Homo sapiens

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Sequence=14497;DNA;Homo sapiens

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TABLE 2

2934/3461

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TABLE 2

2935/3461

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CTGATAGTATGTACNNNN

Sequence=14498;DNA;Homo sapiens

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Sequence=14499;DNA;Homo sapiens

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Sequence=14500;DNA;Homo sapiens

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Sequence=14501;DNA;Homo sapiens

TABLE 2

2936/3461

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Sequence=14502;DNA;Homo sapiens

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Sequence=14503;DNA;Homo sapiens

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Sequence=14504;DNA;Homo sapiens

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TABLE 2

2937/3461

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Sequence=14505;DNA;Homo sapiens

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TABLE 2

2938/3461

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Sequence=14506;DNA;Homo sapiens
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Sequence=14507;DNA;Homo sapiens
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TABLE 2

2939/3461

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Sequence=14508;DNA;Homo sapiens

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TABLE 2

2940/3461

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Sequence=14509;DNA;Homo sapiens

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Sequence=14510;DNA;Homo sapiens

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Sequence=14513;DNA;Homo sapiens

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Sequence=14514;DNA;Homo sapiens

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TABLE 2

2941/3461

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TABLE 2

2942/3461

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TABLE 2

2943/3461

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Sequence=14519;DNA;Homo sapiens

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Sequence=14520;DNA;Homo sapiens

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TABLE 2

2944/3461

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TABLE 2

2945/3461

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TABLE 2

2946/3461

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TABLE 2

2947/3461

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TABLE 2

2948/3461

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TABLE 2

2949/3461

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TABLE 2

2950/3461

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TABLE 2

2951/3461

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TABLE 2

2952/3461

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TABLE 2

2953/3461

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TABLE 2

2954/3461

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TABLE 2

2955/3461

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TABLE 2

2956/3461

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TABLE 2

2957/3461

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NNNNNNNN

Sequence=14552;DNA;Homo sapiens

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CACTGGTTTCCTAGCCATCCTCTGAAAACAGTATGAAACATGACCAAGTACACATGCTAC
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T

Sequence=14553;DNA;Homo sapiens

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TGGCGTTAAAATGCATTTTAAACATTGGGGAAGACTAAATTAATTTTTTTAACTGACATT
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Sequence=14555;DNA;Homo sapiens

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Sequence=14556;DNA;Homo sapiens

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TABLE 2

2958/3461

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Sequence=14558;DNA;Homo sapiens

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GTGCCACTATGCCTTCCCGT

Sequence=14559;DNA;Homo sapiens

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TTTTAAAGATAGAGAAGCAGAGGCGGATAGAACGGATAAAGCAGAAGCGGGCCCAGCTGC
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CTGGCNN

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GGTGGAGGTTGCAGTGANN

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TATTCAATTTAAAAACTCACAAAAATACCCCACAAATGTCATTTTAATAACATCCTCATT
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AATCGGACGCG

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Sequence=14563;DNA;Homo sapiens

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TABLE 2

2959/3461

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AAAGCAGATATTTCTGTCTGCCATACATATGAAATATTTGTATGTATTTATTGGAAGTAA
TTTTTAAGGCTAGTCTTTTTTTTATAATTTCAACTTTTATTTTAGATTTGGGGTAGATGTG
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Sequence=14564;DNA;Homo sapiens

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Sequence=14565;DNA;Homo sapiens

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TABLE 2

2960/3461

ACCACCATGAGAGGCACATCAGCATCAAGGCAATTAGCAGAGCGACGGGCATGTGCCCAC
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NNNNN

Sequence=14566;DNA;Homo sapiens

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ANNNNNN

Sequence=14568;DNA;Homo sapiens

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TABLE 2

2961/3461

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Sequence=14569;DNA;Homo sapiens

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TABLE 2

2962/3461

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Sequence=14570;DNA;Homo sapiens

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Sequence=14571;DNA;Homo sapiens

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TABLE 2

2963/3461

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Sequence=14573;DNA;Homo sapiens

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TABLE 2

2964/3461

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TABLE 2

2965/3461

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TABLE 2

2966/3461

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CGNN

TABLE 2

2967/3461

Sequence=14583;DNA;Homo sapiens
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CACAGAAGACCTGCTTCTACAACATTTGGAAACATTGTGAAACATTACTATTCAGTTGCT
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TABLE 2

2968/3461

GAGGAGCTTAAAGAAGTCTCAGGAAGCATTTTTTAAAATGTGAAAACATCAGGCTCACTA
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Sequence=14586;DNA;Homo sapiens

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Sequence=14587;DNA;Homo sapiens

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Sequence=14588;DNA;Homo sapiens

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TABLE 2

2969/3461

GTTCAAATCTTAAGNNNNNNNNN
Sequence=14589;DNA;Homo sapiens
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Sequence=14590;DNA;Homo sapiens
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Sequence=14592;DNA;Homo sapiens
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TABLE 2

2970/3461

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Sequence=14593;DNA;Homo sapiens

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Sequence=14594;DNA;Homo sapiens

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Sequence=14596;DNA;Homo sapiens

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TABLE 2

2971/3461

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Sequence=14597;DNA;Homo sapiens

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Sequence=14598;DNA;Homo sapiens

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Sequence=14599;DNA;Homo sapiens

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TABLE 2

2972/3461

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Sequence=14600;DNA;Homo sapiens

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TABLE 2

2973/3461

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Sequence=14602;DNA;Homo sapiens

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TABLE 2

2974/3461

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TABLE 2

2975/3461

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Sequence=14605;DNA;Homo sapiens

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TABLE 2

2976/3461

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NNNN

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Sequence=14608;DNA;Homo sapiens

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TABLE 2

2977/3461

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Sequence=14609;DNA;Homo sapiens

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TABLE 2

2978/3461

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Sequence=14610;DNA;Homo sapiens

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Sequence=14611;DNA;Homo sapiens

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TABLE 2

2979/3461

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Sequence=14613;DNA;Homo sapiens

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TABLE 2

2980/3461

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Sequence=14614;DNA;Homo sapiens

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Sequence=14615;DNA;Homo sapiens

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TABLE 2

2981/3461

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Sequence=14617;DNA;Homo sapiens

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Sequence=14618;DNA;Homo sapiens

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Sequence=14619;DNA;Homo sapiens

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TABLE 2

2982/3461

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Sequence=14621;DNA;Homo sapiens

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TTCCCTGTGTAACCATAGAGGAGTGGCCAATTAGCCTTTGACTGACACAGTCACCCCATA
CCAGGGCCATAGGAGCAGTAAGTGGTGACAGCCCATAAATGCACTTGATTTCTACCTTTG
TCACTGAAACTTCTAAAACCCACGGGCCCTGTGTCCCTAGTTTGAAGGAGCCATTATGGG
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GCAAAAGGCCTTTTCTAAGACATTAAGCTCTTTATTTACACCTCACGTAAGTTAGTCTTC
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Sequence=14622;DNA;Homo sapiens

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TABLE 2

2983/3461

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Sequence=14623;DNA;Homo sapiens
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TABLE 2

2984/3461

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Sequence=14624;DNA;Homo sapiens

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Sequence=14627;DNA;Homo sapiens

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T

Sequence=14628;DNA;Homo sapiens

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CCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCT
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TABLE 2

2985/3461

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ANNNN

Sequence=14629;DNA;Homo sapiens

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Sequence=14631;DNA;Homo sapiens

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TABLE 2

2986/3461

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Sequence=14632;DNA;Homo sapiens
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TABLE 2

2987/3461

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TABLE 2
2988/3461

Sequence=14639;DNA;Homo sapiens
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TABLE 2

2989/3461

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TABLE 2

2990/3461

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TABLE 2

2991/3461

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TABLE 2

2992/3461

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TABLE 2

2993/3461

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Sequence=14655;DNA;Homo sapiens

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TABLE 2

2994/3461

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Sequence=14656;DNA;Homo sapiens

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TABLE 2

2995/3461

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Sequence=14659;DNA;Homo sapiens
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TABLE 2
2996/3461

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TABLE 2

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TABLE 2

2998/3461

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Sequence=14666;DNA;Homo sapiens
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TABLE 2

2999/3461

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TABLE 2

3000/3461

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TABLE 2

3001/3461

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TABLE 2

3002/3461

Sequence=14673;DNA;Homo sapiens
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TABLE 2

3003/3461

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Sequence=14676;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

3006/3461

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TABLE 2

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TABLE 2

3008/3461

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Sequence=14687;DNA;Homo sapiens

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TABLE 2

3009/3461

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Sequence=14688;DNA;Homo sapiens

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Sequence=14689;DNA;Homo sapiens

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Sequence=14690;DNA;Homo sapiens

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TABLE 2

3010/3461

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Sequence=14691;DNA;Homo sapiens

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Sequence=14692;DNA;Homo sapiens

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Sequence=14693;DNA;Homo sapiens

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TABLE 2

3011/3461

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Sequence=14694;DNA;Homo sapiens
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TABLE 2

3012/3461

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Sequence=14696;DNA;Homo sapiens

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Sequence=14697;DNA;Homo sapiens

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Sequence=14698;DNA;Homo sapiens

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Sequence=14699;DNA;Homo sapiens

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TABLE 2

3013/3461

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Sequence=14702;DNA;Homo sapiens

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Sequence=14703;DNA;Homo sapiens

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Sequence=14704;DNA;Homo sapiens

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Sequence=14705;DNA;Homo sapiens

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TABLE 2
3014/3461

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Sequence=14706;DNA;Homo sapiens
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Sequence=14707;DNA;Homo sapiens
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Sequence=14708;DNA;Homo sapiens
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Sequence=14709;DNA;Homo sapiens
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TABLE 2

3015/3461

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Sequence=14710;DNA;Homo sapiens

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Sequence=14711;DNA;Homo sapiens

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Sequence=14712;DNA;Homo sapiens

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Sequence=14713;DNA;Homo sapiens

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TABLE 2

3016/3461

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Sequence=14714;DNA;Homo sapiens

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Sequence=14715;DNA;Homo sapiens

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TABLE 2

3017/3461

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Sequence=14716;DNA;Homo sapiens

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Sequence=14717;DNA;Homo sapiens

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Sequence=14718;DNA;Homo sapiens

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Sequence=14719;DNA;Homo sapiens

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TABLE 2

3018/3461

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Sequence=14720;DNA;Homo sapiens

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Sequence=14721;DNA;Homo sapiens

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Sequence=14722;DNA;Homo sapiens

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Sequence=14723;DNA;Homo sapiens

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CAGTTGTCATTTTAGCACCCAACAGTTTTCCCCTTTCTACCTTCCGCAGATTAGTTACAT
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TABLE 2

3019/3461

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Sequence=14724;DNA;Homo sapiens
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Sequence=14725;DNA;Homo sapiens
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Sequence=14726;DNA;Homo sapiens
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TGCCCAGTTCAATATTATTGCCACTGTAGTGATGGACACCAGTTTTAGCCAACATAGCAT
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TCATAACGAGTTGGAGCCTAGAGTTGATCGACTCCAGCGACTTTTTCGTCTTCTTTGCGG
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CACTACAGTGGCAATAATATTGAACTGGGGCACAGCATGCGGAAAATACTACAGAGTGTT
GCACACTGGCTATTCATTGATCCAGGGTGACTCTGACATTCATTAGGAAGGCATGGCCAG
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TABLE 2

3020/3461

CTTAAACCCTGCAAAATTTTTCCTTTAATAAAATTCGCTTGTTTTAAAACACACCACAAA
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Sequence=14727;DNA;Homo sapiens

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Sequence=14728;DNA;Homo sapiens

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Sequence=14730;DNA;Homo sapiens

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TABLE 2

3021/3461

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Sequence=14731;DNA;Homo sapiens

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Sequence=14732;DNA;Homo sapiens

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TABLE 2

3022/3461

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TABLE 2

3023/3461

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Sequence=14733;DNA;Homo sapiens

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Sequence=14736;DNA;Homo sapiens

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TABLE 2

3024/3461

Sequence=14737;DNA;Homo sapiens
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GGCCTCAAGCGATCTTCCTACCTCAGCCTCCTGAAGTGCTGGGATTATAGGCATGAGCTA
CCAAGCCTAGCCTATATGGTGTATTTCATCAAACCTAAGACACTGTTGATCCTAAGATGC
ACCCAGGTTTTAGAGATGTTAAAATGCACCTCCACCTCCACAAAAAAGTATGCTTTTTAG
AAATGAAAATAACCACTACCTACTCAGAATCTTTAGATAAAAAATGTTGTCAGGCCACAA
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Sequence=14741;DNA;Homo sapiens
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TABLE 2

3025/3461

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Sequence=14742;DNA;Homo sapiens

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Sequence=14743;DNA;Homo sapiens

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CGGTGCCTCAGCGCACGGCCTCATACCAGACGCCACGGTGCCTCCATGCACGGGCTTCTG
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Sequence=14745;DNA;Homo sapiens

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TABLE 2

3026/3461

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Sequence=14746;DNA;Homo sapiens

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AGTGGCCTGCCAGCACTTGAGAGGCTCCGCAAGCACAAGTGTGTTTATGGGAGTTGTGCA
CATGCTCAGTTGAGGCATTCTTCCCTTACCAGTCGAGTGTTTCTAGAGGAAGGTCATAGA
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Sequence=14747;DNA;Homo sapiens

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TABLE 2

3027/3461

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Sequence=14748;DNA;Homo sapiens

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Sequence=14750;DNA;Homo sapiens

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TABLE 2

3028/3461

ACACCTTATAATCCTGATGGCACGCTCATGACACCGTTCCCCTCGACTAGCCACCTTTAG
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Sequence=14751;DNA;Homo sapiens
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Sequence=14752;DNA;Homo sapiens
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TABLE 2

3029/3461

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Sequence=14757;DNA;Homo sapiens

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Sequence=14758;DNA;Homo sapiens

TABLE 2

3030/3461

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Sequence=14759;DNA;Homo sapiens

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Sequence=14760;DNA;Homo sapiens

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Sequence=14762;DNA;Homo sapiens

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TABLE 2

3031/3461

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Sequence=14763;DNA;Homo sapiens

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Sequence=14765;DNA;Homo sapiens

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TABLE 2

3032/3461

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Sequence=14766;DNA;Homo sapiens

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TABLE 2

3033/3461

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Sequence=14767;DNA;Homo sapiens

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Sequence=14768;DNA;Homo sapiens

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TABLE 2

3034/3461

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Sequence=14770;DNA;Homo sapiens

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TABLE 2

3035/3461

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Sequence=14771;DNA;Homo sapiens

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CANNNN

TABLE 2

3036/3461

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TABLE 2

3037/3461

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Sequence=14776;DNA;Homo sapiens
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Sequence=14777;DNA;Homo sapiens
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TABLE 2

3038/3461

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Sequence=14778;DNA;Homo sapiens

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Sequence=14779;DNA;Homo sapiens

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TABLE 2

3039/3461

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Sequence=14780;DNA;Homo sapiens

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TABLE 2

3040/3461

Sequence=14781;DNA;Homo sapiens

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TABLE 2

3041/3461

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GNNNNNNNNNNNNNNNNN

Sequence=14782;DNA;Homo sapiens

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Sequence=14783;DNA;Homo sapiens

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Sequence=14784;DNA;Homo sapiens

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TABLE 2

3042/3461

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TABLE 2

3043/3461

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Sequence=14785;DNA;Homo sapiens

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Sequence=14786;DNA;Homo sapiens

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Sequence=14787;DNA;Homo sapiens

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TABLE 2

3044/3461

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TABLE 2

3045/3461

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Sequence=14788;DNA;Homo sapiens

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GNNNN

Sequence=14789;DNA;Homo sapiens

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TGCTTTCAGACCAAGGTGGACTTCACCTCGTGCACAGGCCTCTTCTGTGTCCTGGGAATT
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TABLE 2

3046/3461

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Sequence=14790;DNA;Homo sapiens

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Sequence=14791;DNA;Homo sapiens

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TABLE 2

3047/3461

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Sequence=14792;DNA;Homo sapiens

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TABLE 2

3048/3461

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Sequence=14793;DNA;Homo sapiens

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Sequence=14794;DNA;Homo sapiens

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Sequence=14795;DNA;Homo sapiens

TABLE 2

3049/3461

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Sequence=14796;DNA;Homo sapiens

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Sequence=14797;DNA;Homo sapiens

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TABLE 2

3050/3461

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Sequence=14798;DNA;Homo sapiens

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AGAGGCCTCAGGTAATGACGACATCATTTTAAGGCATGGAGCTGAGAAGTCTGGGAGTGA
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ACTCAATGTTCCCATTGTAAGTACAGGAAACAAGCCCTGTACTTACCAAGGAGAAAGAGG
AGAGACAGCAGTGCTGGGAGATTCTCAAATAGAAACCCGTGGACGCTCCAATGGGCTTGT
CATGATATCAGGCTAGGCTTTCCTGCTCATTTTTCAAAGACGCTCCAGATTTGAGGGTAC
TCTGACTGCAACATCTATCACCCCATTGATCGCCAGGATTGATTTGGTTGATCTGGCTGA
GCAGGCGGGTGTCCCCGTCCTCCCTCACTGCCCCATATGTGTCCCTCCTAAAGCTGCATG

TABLE 2

3051/3461

CTCAGTTGAAGAGGACGAGAGGACGACCTTCTCTGATAGAGGAGGACCACGCTTCAGTCA
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Sequence=14799;DNA;Homo sapiens

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CTCCAAACAAGGCCTTGATGATAAACTAATCCTTCCTAAAATGCTGGTAGGTAAACAAGC
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TABLE 2

3052/3461

NAAGAATAGACCGAGATAGGGNTGAGTGGTGTTCCAGCTTGGAACAAGAGTCCACTATAA
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CGAGAAA

Sequence=14800;DNA;Homo sapiens

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Sequence=14801;DNA;Homo sapiens

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TABLE 2

3053/3461

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Sequence=14802;DNA;Homo sapiens

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Sequence=14803;DNA;Homo sapiens

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GGTCCACCTGATGCCGCCGCCGTCGGAGGAGCTGGCCATGATCAAGCTGGTGACGCTTAC
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TABLE 2

3054/3461

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TCGTCCGCTTGGCGGGTAAAACCACCCATGTCAATGTGTCTGTTGTTATGACGGAGGTGG
ACGGCACC

Sequence=14804;DNA;Homo sapiens

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Sequence=14805;DNA;Homo sapiens

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Sequence=14806;DNA;Homo sapiens

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TABLE 2

3055/3461

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Sequence=14807;DNA;Homo sapiens

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Sequence=14808;DNA;Homo sapiens

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TABLE 2

3056/3461

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Sequence=14809;DNA;Homo sapiens
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TABLE 2

3057/3461

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Sequence=14810;DNA;Homo sapiens

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Sequence=14811;DNA;Homo sapiens

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TACANN

Sequence=14812;DNA;Homo sapiens

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TABLE 2

3058/3461

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Sequence=14814;DNA;Homo sapiens

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TABLE 2

3059/3461

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Sequence=14815;DNA;Homo sapiens

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Sequence=14816;DNA;Homo sapiens

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ATC

Sequence=14818;DNA;Homo sapiens

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TABLE 2

3060/3461

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Sequence=14819;DNA;Homo sapiens

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Sequence=14822;DNA;Homo sapiens

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TABLE 2

3061/3461

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TCAGTGACAACCTGGACCTCGACATGGACCAGCTGGAAAAACGGTCGCGGGCCAGCGGGA
GCAGTGCGGGCAGCATGAAACACAAGCGCCTGTCCCGTCATTCCACCGCCAGCCACAGCA
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Sequence=14823;DNA;Homo sapiens

GACCCACGCGTCCGGAAATTTTGAAGAATATTAGAAAATATCTGAAACTGAATGAAAATA
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Sequence=14824;DNA;Homo sapiens

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TABLE 2

3062/3461

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Sequence=14825;DNA;Homo sapiens

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AATAGATTTTAAATCCAANNN

Sequence=14826;DNA;Homo sapiens

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TABLE 2

3063/3461

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GGGGAAG

Sequence=14827;DNA;Homo sapiens

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Sequence=14828;DNA;Homo sapiens

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Sequence=14829;DNA;Homo sapiens

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TABLE 2

3064/3461

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Sequence=14830;DNA;Homo sapiens

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Sequence=14831;DNA;Homo sapiens

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TABLE 2

3065/3461

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Sequence=14832;DNA;Homo sapiens

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TCAGGCTGGT

Sequence=14833;DNA;Homo sapiens

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Sequence=14834;DNA;Homo sapiens

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TABLE 2

3066/3461

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TTGCTT

Sequence=14835;DNA;Homo sapiens

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TATTTTTAAATCAAGAACTTTTGCCCAACAACNNN

Sequence=14836;DNA;Homo sapiens

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Sequence=14837;DNA;Homo sapiens

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Sequence=14838;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

3070/3461

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TABLE 2

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TABLE 2

3072/3461

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Sequence=14846;DNA;Homo sapiens

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Sequence=14847;DNA;Homo sapiens

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TABLE 2

3073/3461

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TABLE 2

3074/3461

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Sequence=14853;DNA;Homo sapiens

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TABLE 2

3075/3461

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TABLE 2

3076/3461

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TABLE 2

3077/3461

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TABLE 2

3078/3461

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TABLE 2
3079/3461

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TABLE 2

3080/3461

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Sequence=14864;DNA;Homo sapiens

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Sequence=14865;DNA;Homo sapiens

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TABLE 2

3081/3461

Sequence=14867;DNA;Homo sapiens
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TABLE 2
3082/3461

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TABLE 2

3083/3461

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Sequence=14871;DNA;Homo sapiens

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TABLE 2

3084/3461

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TABLE 2

3085/3461

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Sequence=14874;DNA;Homo sapiens

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TABLE 2

3086/3461

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TABLE 2

3087/3461

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Sequence=14877;DNA;Homo sapiens

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TABLE 2

3088/3461

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Sequence=14878;DNA;Homo sapiens

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TABLE 2

3089/3461

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Sequence=14880;DNA;Homo sapiens

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Sequence=14882;DNA;Homo sapiens

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TABLE 2

3090/3461

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Sequence=14883;DNA;Homo sapiens
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TABLE 2

3091/3461

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Sequence=14884;DNA;Homo sapiens

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Sequence=14885;DNA;Homo sapiens

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Sequence=14886;DNA;Homo sapiens

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TABLE 2

3092/3461

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=15338;DNA;Homo sapiens

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TABLE 2

3311/3461

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TABLE 2

3312/3461

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Sequence=15340;DNA;Homo sapiens

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Sequence=15341;DNA;Homo sapiens

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Sequence=15342;DNA;Homo sapiens

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TABLE 2

3313/3461

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Sequence=15344;DNA;Homo sapiens

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Sequence=15345;DNA;Homo sapiens

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TABLE 2
3314/3461

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Sequence=15347;DNA;Homo sapiens
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Sequence=15349;DNA;Homo sapiens
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TABLE 2

3315/3461

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Sequence=15350;DNA;Homo sapiens

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Sequence=15351;DNA;Homo sapiens

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TABLE 2
3316/3461

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TABLE 2

3317/3461

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TABLE 2

3318/3461

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Sequence=15356;DNA;Homo sapiens

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TABLE 2

3319/3461

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TABLE 2

3320/3461

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TABLE 2

3321/3461

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Sequence=15363;DNA;Homo sapiens

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TABLE 2

3322/3461

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TABLE 2

3323/3461

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TABLE 2

3324/3461

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TABLE 2

3325/3461

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TABLE 2

3326/3461

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Sequence=15373;DNA;Homo sapiens

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TABLE 2

3327/3461

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Sequence=15376;DNA;Homo sapiens

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TABLE 2

3328/3461

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Sequence=15378;DNA;Homo sapiens

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TABLE 2

3329/3461

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TABLE 2

3330/3461

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TABLE 2

3331/3461

TTCANN
Sequence=15381;DNA;Homo sapiens
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TABLE 2

3332/3461

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Sequence=15384;DNA;Homo sapiens

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Sequence=15385;DNA;Homo sapiens

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TABLE 2

3333/3461

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TABLE 2

3334/3461

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TABLE 2

3335/3461

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Sequence=15389;DNA;Homo sapiens

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TABLE 2

3336/3461

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Sequence=15392;DNA;Homo sapiens

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TABLE 2

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Sequence=15393;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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Sequence=15394;DNA;Homo sapiens

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Sequence=15396;DNA;Homo sapiens

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TABLE 2

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ACNN

Sequence=15397;DNA;Homo sapiens

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TABLE 2
3341/3461

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TABLE 2
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TABLE 2

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Sequence=15401;DNA;Homo sapiens

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TABLE 2

3344/3461

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TABLE 2

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Sequence=15402;DNA;Homo sapiens

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TABLE 2

3346/3461

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TABLE 2

3347/3461

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TABLE 2

3348/3461

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TABLE 2

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TABLE 2

3350/3461

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TABLE 2

3351/3461

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TABLE 2

3352/3461

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Sequence=15417;DNA;Homo sapiens

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TABLE 2

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TABLE 2

3354/3461

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TABLE 2

3355/3461

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TABLE 2

3356/3461

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TABLE 2

3357/3461

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Sequence=15434;DNA;Homo sapiens

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Sequence=15435;DNA;Homo sapiens

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TABLE 2

3358/3461

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Sequence=15436;DNA;Homo sapiens

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Sequence=15437;DNA;Homo sapiens

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Sequence=15438;DNA;Homo sapiens

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TABLE 2

3359/3461

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Sequence=15439;DNA;Homo sapiens

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TABLE 2

3360/3461

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Sequence=15440;DNA;Homo sapiens

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Sequence=15441;DNA;Homo sapiens

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Sequence=15442;DNA;Homo sapiens

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TABLE 2

3361/3461

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Sequence=15443;DNA;Homo sapiens

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Sequence=15444;DNA;Homo sapiens

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TABLE 2

3362/3461

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Sequence=15445;DNA;Homo sapiens

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Sequence=15446;DNA;Homo sapiens

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TABLE 2

3363/3461

Sequence=15447;DNA;Homo sapiens

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TABLE 2

3364/3461

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Sequence=15448;DNA;Homo sapiens

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Sequence=15449;DNA;Homo sapiens

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TABLE 2

3365/3461

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Sequence=15451;DNA;Homo sapiens

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Sequence=15452;DNA;Homo sapiens

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TABLE 2

3366/3461

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Sequence=15453;DNA;Homo sapiens

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TABLE 2

3367/3461

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Sequence=15454;DNA;Homo sapiens

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Sequence=15455;DNA;Homo sapiens

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TABLE 2

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Sequence=15456;DNA;Homo sapiens

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TABLE 2
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TABLE 2

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Sequence=15459;DNA;Homo sapiens

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TABLE 2

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TABLE 2

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TABLE 2

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Sequence=15462;DNA;Homo sapiens

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TABLE 2

3374/3461

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TABLE 2

3375/3461

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TABLE 2

3376/3461

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TABLE 2

3377/3461

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TABLE 2

3378/3461

Sequence=15469;DNA;Homo sapiens

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TABLE 2

3379/3461

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TABLE 2

3380/3461

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TABLE 2

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TABLE 2

3382/3461

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TABLE 2

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NNNNN

Sequence=15480;DNA;Homo sapiens

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TABLE 2

3384/3461

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Sequence=15481;DNA;Homo sapiens

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TABLE 2

3385/3461

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TABLE 2

3386/3461

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TABLE 2

3387/3461

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Sequence=15486;DNA;Homo sapiens

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TABLE 2

3388/3461

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TABLE 2

3389/3461

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TABLE 2

3390/3461

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TABLE 2

3391/3461

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TABLE 2

3392/3461

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TABLE 2

3393/3461

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TABLE 2

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TABLE 2

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TABLE 2
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TABLE 2

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TABLE 2

3398/3461

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TABLE 2

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TACATTCTGATGACCCCCATTTAAGATGCCATTGTTATAGAAATGGTTCAGATGACAATT
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Sequence=15513;DNA;Homo sapiens

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Sequence=15514;DNA;Homo sapiens

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GGGTGGTAGGTAGAAATATAAGATGACTCCCAAGATTTTTGCACCCTGGCATACACATAT
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Sequence=15515;DNA;Homo sapiens

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Sequence=15516;DNA;Homo sapiens

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TABLE 2

3400/3461

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TABLE 2

3401/3461

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Sequence=15520;DNA;Homo sapiens
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TABLE 2

3402/3461

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Sequence=15524;DNA;Homo sapiens

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TABLE 2

3403/3461

Sequence=15525;DNA;Homo sapiens

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Sequence=15526;DNA;Homo sapiens

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TABLE 2

3404/3461

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TABLE 2

3405/3461

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ATG

TABLE 2

3406/3461

Sequence=15532;DNA;Homo sapiens

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Sequence=15533;DNA;Homo sapiens

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TABLE 2

3407/3461

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Sequence=15534;DNA;Homo sapiens

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TABLE 2

3408/3461

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TABLE 2

3409/3461

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TABLE 2

3410/3461

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TABLE 2
3411/3461

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TABLE 2

3412/3461

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Sequence=15542;DNA;Homo sapiens
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TABLE 2

3413/3461

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TABLE 2

3414/3461

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Sequence=15546;DNA;Homo sapiens

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TABLE 2
3415/3461

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Sequence=15547;DNA;Homo sapiens
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TABLE 2

3416/3461

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Sequence=15552;DNA;Homo sapiens

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Sequence=15555;DNA;Homo sapiens

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TABLE 2
3417/3461

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CCGC

Sequence=15556;DNA;Homo sapiens
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Sequence=15557;DNA;Homo sapiens
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TABLE 2

3418/3461

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TABLE 2

3419/3461

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TABLE 2

3420/3461

AACTTGTTTATCCAAAAAAAAAAAAAAAAA
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TABLE 2
3421/3461

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TABLE 2
3422/3461

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TABLE 2

3423/3461

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TABLE 2

3424/3461

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TABLE 2
3425/3461

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GAGTCGTTTTCCAATTAACNNNNNN
Sequence=15582;DNA;Homo sapiens
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Sequence=15583;DNA;Homo sapiens
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CTGAAAGGATTCATCTAATTGATGAGTTTAATACCGATATGGATATCTTTGTGTTTCTGC
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ACGATATTGACTGTAATCCTTATAATGACAAACAAGCAGAAGATAGATGCCATAGAGTAG
GCCAGACTAAGTGATGAAGGGAGTATGCCAGCAGATATAGCCACATTACTAAAAACATCA
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AATACTCACACGTGAAATTTCAACAGTTTTCTGAATGGGGATTAGTTGGTGATTGTTTGT
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TABLE 2

3426/3461

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Sequence=15584;DNA;Homo sapiens

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AGT

Sequence=15585;DNA;Homo sapiens

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Sequence=15586;DNA;Homo sapiens

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Sequence=15587;DNA;Homo sapiens

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Sequence=15588;DNA;Homo sapiens

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TCAAGAAGATGGCAAAATCATCTTACATTTTTCAGACTTCATCTTCAAAACTGCCATTAC
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Sequence=15589;DNA;Homo sapiens

TABLE 2

3427/3461

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TABLE 2

3428/3461

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TGCCCCCCCCCGGGGGGGCC

Sequence=15590;DNA;Homo sapiens

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Sequence=15591;DNA;Homo sapiens

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TABLE 2
3429/3461

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CN

Sequence=15592;DNA;Homo sapiens

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ACATANN

Sequence=15593;DNA;Homo sapiens

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TABLE 2

3430/3461

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GGCNN

Sequence=15594;DNA;Homo sapiens

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TABLE 2
3431/3461

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TABLE 2

3432/3461

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TABLE 2

3433/3461

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TABLE 2

3434/3461

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TABLE 2

3435/3461

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TABLE 2

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TABLE 2

3437/3461

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TABLE 2

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TABLE 2
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TABLE 2

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TABLE 2
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Sequence=15609;DNA;Homo sapiens
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TABLE 2

3442/3461

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TABLE 2

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TABLE 2

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TABLE 2

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TABLE 2
3446/3461

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TABLE 2

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TABLE 2

3448/3461

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Sequence=15619;DNA;Homo sapiens

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TABLE 2

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Sequence=15620;DNA;Homo sapiens

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Sequence=15621;DNA;Homo sapiens

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TABLE 2
3450/3461

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TABLE 2

3451/3461

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Sequence=15622;DNA;Homo sapiens

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TABLE 2

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Sequence=15623;DNA;Homo sapiens

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TABLE 2

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Sequence=15624;DNA;Homo sapiens

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TABLE 2

3454/3461

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TABLE 2

3455/3461

Sequence=15626;DNA;Homo sapiens

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TABLE 2

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TABLE 2
3457/3461

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TABLE 2

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TABLE 2
3459/3461

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TABLE 2
3460/3461

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TABLE 2

3461/3461

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TTGTCCAACACTACTGGGATGTTCTTGTACAAGCTTTTGTCCAAAATGGCACAGTGAGCA
CAAATGAGTTCCTGTGTGATAAAGACAAAACTTCAACAGTGGCACCCACCATACACACCA
CTGTGCCATCTCCTACTACAACACCTACTCCAAAGGAAAAACCAGAAGCTGGAACCTATT
CAGTTAATAATGGCAATGATACTTGTCTGCTGGCTACCATGGGGCTGCAGCTGAACATCA
CTCAGGATAAGGTTGCTTCAGTTATTAACATCAACCCCAATACAACTCACTCCACAGGCA
GCTGCCGTTCTCACACTGCTCTACTTAGACTCAATAGCAGCACCATTAAGTATCTAGACT
TTGTCTTTGCTGTGAAAACATGAAAACCGATTTTATCTGAAGGAAGTGAACATCAGCATG
TATTTGGTTCATGGCTCCGTTTTCAGCATTGCAAATAACAATCTCAGCTACTGGGATGCC
CCCCTGGGAAGTTCTTATATGTGCAACAAAGAGCAGACTGTTTCAGTGTCTGGAGCATTT
CAGATAAATACCTTTGATCTAAGGGTTCAGCCTTTCAATGTGACACAACGGAAGTATTCT
ACAGTCAAGACTGCAGTGCAGATGACGAAAACTTCTTGTGGCATAGCGGGGGAGCTGCTG
GGAGGAGTATTATCAGGTGCGGGTATTTATGGTCAGGCCATATGGTGTTTGGCATTTTAA
CTGCGCTTTGGTTTTAAATTGGATAAAGATTTTCCCAGGGGAAATGGTAAGGAGGGAATT
TTACCCTGAAGCTTAACGGTTTAAACAGGTTGGGGACAAAAGGGAAGATAATATG

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Sequence no. in Tables 1 & 1A	seq name	Seq ID nos. in Table 2
SEQUENCE1	johOa001a01t2	1
SEQUENCE2	johOa001c08t2	2
SEQUENCE3	johOa003c08t1	3
SEQUENCE4	johOa003d09t1	4
SEQUENCE5	johOa003e07t1	5
SEQUENCE6	johOa003f05t1	6
SEQUENCE7	johOa003e11t1	7
SEQUENCE8	johOa003h05t1	8
SEQUENCE9	johOa003a06t1	9
SEQUENCE10	johOa003h11t1	10
SEQUENCE11	johOa003c02t1	11
SEQUENCE12	johOa003a05t1	12
SEQUENCE13	johOa016g01t1	13
SEQUENCE14	johOa013h01t1	14
SEQUENCE15	johOa004f09t1	15
SEQUENCE16	johOa004g09t1	16
SEQUENCE17	johOa004h09t1	17
SEQUENCE18	johOa004h07t1	18
SEQUENCE19	johOa011e01t1	19
SEQUENCE20	johOa012g09t1	20
SEQUENCE21	johOa012h09t1	21
SEQUENCE22	johOa002g12t1	22
SEQUENCE23	johOa012a03t1	23
SEQUENCE24	johOa012b09t1	24
SEQUENCE25	johOa012c09t1	25
SEQUENCE26	johOa002f02t1	26
SEQUENCE27	johOa002g05t1	27
SEQUENCE28	johOa002a06t1	28
SEQUENCE29	johOa002b02t1	29
SEQUENCE30	johOa011b12t1	30
SEQUENCE31	johOa011c12t1	31
SEQUENCE32	johOa011d10t1	32
SEQUENCE33	johOa013c10t1	33
SEQUENCE34	johOa013c11t1	34
SEQUENCE35	johOa013e05t1	35
SEQUENCE36	johOa013c06t1	36
SEQUENCE37	johOa014b10t1	37
SEQUENCE38	johOa014e07t1	38
SEQUENCE39	johOa015f06t1	39
SEQUENCE40	johOa015c03t1	40
SEQUENCE41	johOa016a02t1	41
SEQUENCE42	johOa005b04t2	42
SEQUENCE43	johOa005c04t2	43
SEQUENCE44	johOa010b04t2	44
SEQUENCE45	johOa010b09t2	45
SEQUENCE46	johOa009b12t2	46
SEQUENCE47	johOa010c07t2	47
SEQUENCE48	johOa006e11t2	48
SEQUENCE50	johOa007g08t2	49
SEQUENCE51	johOa006g12t2	50
SEQUENCE52	johOa010g07t2	51
SEQUENCE53	johOa009c02t2	52

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SEQUENCE54	johOa007c09t2	53
SEQUENCE55	johOa009g08t2	54
SEQUENCE56	johOa007c03t2	55
SEQUENCE57	johOa007e04t2	56
SEQUENCE58	johOa007g03t2	57
SEQUENCE59	johOa005d10t2	58
SEQUENCE60	johOa005f11t2	59
SEQUENCE61	johOa005a11t2	60
SEQUENCE62	johOa005f06t2	61
SEQUENCE63	johOa006f03t2	62
SEQUENCE64	johOa005g08t2	63
SEQUENCE65	johOa005c09t2	64
SEQUENCE66	johOa031b11t1	65
SEQUENCE67	johOa029h05t1	66
SEQUENCE68	johOa029h02t1	67
SEQUENCE69	johOa030e03t1	68
SEQUENCE70	johOa028g11t1	69
SEQUENCE71	johOa029h11t1	70
SEQUENCE72	johOa028c01t1	71
SEQUENCE73	johOa027a03t1	72
SEQUENCE75	johOa025g12t1	73
SEQUENCE76	johOa024h01t1	74
SEQUENCE77	johOa025d01t1	75
SEQUENCE78	johOa068d01t1	76
SEQUENCE79	johOa019g07t1	77
SEQUENCE80	johOa018b06t1	78
SEQUENCE82	johOa019f08t1	79
SEQUENCE83	johOa019a08t1	80
SEQUENCE84	johOa018d05t1	81
SEQUENCE85	johOa019e04t1	82
SEQUENCE86	johOa020h06t1	83
SEQUENCE87	johOa020d02t1	84
SEQUENCE88	johOa038h03t1	85
SEQUENCE89	johOa031e12t1	86
SEQUENCE90	johOa037b03t1	87
SEQUENCE91	johOa040e12t1	88
SEQUENCE92	johOa058b09t1	89
SEQUENCE93	johOa040g12t1	90
SEQUENCE94	johOa058g11t1	91
SEQUENCE95	johOa039a05t1	92
SEQUENCE96	johOa039d03t1	93
SEQUENCE97	johOa057c03t1	94
SEQUENCE98	johOa057a05t1	95
SEQUENCE99	johOa053e09t1	96
SEQUENCE100	johOa052f07t1	97
SEQUENCE101	johOa053h07t1	98
SEQUENCE103	johOa051c06t1	99
SEQUENCE104	johOa052d02t1	100
SEQUENCE105	johOa060h11t1	101
SEQUENCE106	johOa051e09t1	102
SEQUENCE107	johOa060g02t1	103
SEQUENCE108	johOa051f02t1	104
SEQUENCE109	johOa050f09t1	105

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SEQUENCE110	johOa060h10t1	106
SEQUENCE111	johOa050e09t1	107
SEQUENCE112	johOa048g11t1	108
SEQUENCE113	johOa049f09t1	109
SEQUENCE114	johOa048c06t1	110
SEQUENCE115	johOa045c04t1	111
SEQUENCE116	johOa056a08t1	112
SEQUENCE117	johOa056a06t1	113
SEQUENCE118	johOa054c06t1	114
SEQUENCE119	johOa056g05t1	115
SEQUENCE120	johOa056b05t1	116
SEQUENCE121	johOa070d02t1	117
SEQUENCE122	johOa067b08t1	118
SEQUENCE123	johOa067b05t1	119
SEQUENCE124	johOa067e04t1	120
SEQUENCE125	johOa070a09t1	121
SEQUENCE126	johOa070h07t1	122
SEQUENCE128	johOa068g02t1	123
SEQUENCE129	johOa068a12t1	124
SEQUENCE130	johOb001a08t1	125
SEQUENCE131	johOb001g08t1	126
SEQUENCE132	johOb003b08t1	127
SEQUENCE133	johOb003h01t1	128
SEQUENCE134	johOb003a01t1	129
SEQUENCE135	johOb004g10t1	130
SEQUENCE136	johOb002f07t1	131
SEQUENCE137	johOb002g01t1	132
SEQUENCE138	johOb011f11t1	133
SEQUENCE139	johOb005f11t1	134
SEQUENCE140	johOb005a06t1	135
SEQUENCE141	johOb005h04t1	136
SEQUENCE142	johOb011c02t1	137
SEQUENCE143	johOb005b08t1	138
SEQUENCE144	johOb012b11t1	139
SEQUENCE145	johOb008h11t1	140
SEQUENCE146	johOb012g09t1	141
SEQUENCE147	johOb012g08t1	142
SEQUENCE148	johOb008a02t1	143
SEQUENCE150	johOb013d06t1	144
SEQUENCE152	johOb007g05t2	145
SEQUENCE153	johOb013b02t1	146
SEQUENCE154	johOb010d03t1	147
SEQUENCE155	johOb010d01t1	148
SEQUENCE156	johOb016e05t1	149
SEQUENCE157	johOb022e06t1	150
SEQUENCE158	johOb022b02t1	151
SEQUENCE159	johOb018b04t1	152
SEQUENCE160	johOb025a08t1	153
SEQUENCE161	johOb025h03t1	154
SEQUENCE162	johOb025c07t1	155
SEQUENCE163	johOb025f01t1	156
SEQUENCE164	johOb020e03t1	157
SEQUENCE165	johOb023b09t1	158

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SEQUENCE166	johOb023g10t1	159
SEQUENCE167	johOb019b02t1	160
SEQUENCE168	johOb023g02t1	161
SEQUENCE169	johOb017b09t1	162
SEQUENCE170	johOb017h03t1	163
SEQUENCE171	johOb017g05t1	164
SEQUENCE172	johOb019e02t1	165
SEQUENCE173	johOb015a06t1	166
SEQUENCE174	johOb015a02t1	167
SEQUENCE175	johOb014g03t1	168
SEQUENCE176	johOb014f12t1	169
SEQUENCE177	johOb014e08t1	170
SEQUENCE178	johOc001f09t1	171
SEQUENCE179	johOc001e09t1	172
SEQUENCE180	johOc001b09t1	173
SEQUENCE181	johOc001f07t1	174
SEQUENCE182	johOc001e04t1	175
SEQUENCE183	johOc001f01t1	176
SEQUENCE184	johOc001c11t1	177
SEQUENCE185	johOc001h10t1	178
SEQUENCE186	johOc001d09t1	179
SEQUENCE187	johOc001c07t1	180
SEQUENCE188	johOc001g06t1	181
SEQUENCE189	johOc001d05t1	182
SEQUENCE190	johOc001e01t1	183
SEQUENCE192	johOc006a09t1	184
SEQUENCE193	johOc006d03t1	185
SEQUENCE194	johOc006d11t1	186
SEQUENCE195	johOc006c08t1	187
SEQUENCE196	johOc004h09t1	188
SEQUENCE197	johOc004e07t1	189
SEQUENCE198	johOc004h06t1	190
SEQUENCE199	johOc006b03t1	191
SEQUENCE200	johOc007f12t1	192
SEQUENCE201	johOc004e05t1	193
SEQUENCE202	johOc005g08t1	194
SEQUENCE203	johOc005f12t1	195
SEQUENCE204	johOc005b10t1	196
SEQUENCE205	johOc005f07t1	197
SEQUENCE206	johOc003h09t1	198
SEQUENCE207	johOc003b07t1	199
SEQUENCE208	johOc003e09t1	200
SEQUENCE209	johOc003f04t1	201
SEQUENCE210	johOc003f03t1	202
SEQUENCE211	johOc005b03t1	203
SEQUENCE212	johOc005b05t1	204
SEQUENCE213	johOc005a03t1	205
SEQUENCE214	johOc007a12t1	206
SEQUENCE215	johOc007g06t1	207
SEQUENCE216	johOc007c12t1	208
SEQUENCE217	johOc007g11t1	209
SEQUENCE218	johOc007h06t1	210
SEQUENCE219	johOc007d03t1	211

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SEQUENCE220	johOc016d08t1	212
SEQUENCE221	johOc016c07t1	213
SEQUENCE222	johOc016g07t1	214
SEQUENCE223	johOc016f04t1	215
SEQUENCE224	johOc016d03t1	216
SEQUENCE225	johOc016f09t1	217
SEQUENCE226	johOc016d01t1	218
SEQUENCE227	johOc013h12t1	219
SEQUENCE228	johOc013e01t1	220
SEQUENCE229	johOc014c10t1	221
SEQUENCE230	johOc014c12t1	222
SEQUENCE231	johOc014d09t1	223
SEQUENCE232	johOc014g08t1	224
SEQUENCE233	johOc014e04t1	225
SEQUENCE234	johOc014f02t1	226
SEQUENCE235	johOc002b04t1	227
SEQUENCE236	johOc002c03t1	228
SEQUENCE237	johOc002a04t1	229
SEQUENCE238	johOc015c11t1	230
SEQUENCE239	johOc015f10t1	231
SEQUENCE240	johOc015c06t1	232
SEQUENCE241	johOc015f04t1	233
SEQUENCE242	johOc008g11t1	234
SEQUENCE243	johOc008f11t1	235
SEQUENCE244	johOc008h11t1	236
SEQUENCE245	johOc010a03t1	237
SEQUENCE246	johOc010f02t1	238
SEQUENCE247	johOc012a08t1	239
SEQUENCE248	johOc011c08t1	240
SEQUENCE249	johOc009f07t1	241
SEQUENCE250	johOc011h03t1	242
SEQUENCE251	johOc010e04t1	243
SEQUENCE252	johOc012c10t1	244
SEQUENCE253	johOc011a11t1	245
SEQUENCE254	johOc012c08t1	246
SEQUENCE255	johOc009b11t1	247
SEQUENCE256	johOc011f08t1	248
SEQUENCE257	johOc009a11t1	249
SEQUENCE258	johOc011e08t1	250
SEQUENCE259	johOc011f05t1	251
SEQUENCE260	johOc012e03t1	252
SEQUENCE261	johOc011a04t1	253
SEQUENCE262	johOc008e05t1	254
SEQUENCE263	johOc008h02t1	255
SEQUENCE264	johOc010b11t1	256
SEQUENCE265	johOc008d04t1	257
SEQUENCE267	johOc008a01t1	258
SEQUENCE268	johOc010a12t1	259
SEQUENCE269	johOc010e11t1	260
SEQUENCE270	johOd004c10b1	261
SEQUENCE271	johOd004d06a1	262
SEQUENCE272	johOd001f01a1	263
SEQUENCE273	johOd001g07a1	264

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SEQUENCE274	johOd001f09b1	265
SEQUENCE275	johOd002c10a1	266
SEQUENCE276	johOd001c03a1	267
SEQUENCE277	johOd001h02b1	268
SEQUENCE278	johOd002e09a1	269
SEQUENCE279	johOd001c03b1	270
SEQUENCE280	johOd002d06b1	271
SEQUENCE281	johOd003h06a1	272
SEQUENCE282	johOd003b07b1	273
SEQUENCE283	johOd003d04b1	274
SEQUENCE284	johOd003h06b1	275
SEQUENCE285	johOd005f09t1	276
SEQUENCE286	johOd005e03t1	277
SEQUENCE287	johOd005d02t1	278
SEQUENCE288	johOd031h09t2	279
SEQUENCE289	johOd031c05t2	280
SEQUENCE290	johOd031c03t2	281
SEQUENCE291	johOd031d01t2	282
SEQUENCE292	johOd046f11a1	283
SEQUENCE293	johOd054f06a1	284
SEQUENCE294	johOd045a04a1	285
SEQUENCE295	johOd041e05a1	286
SEQUENCE296	johOd041a01a1	287
SEQUENCE297	johOd057d09a1	288
SEQUENCE298	johOd057c01a1	289
SEQUENCE299	johOd057d10a1	290
SEQUENCE300	johOd039e10a1	291
SEQUENCE301	johOd056d01a1	292
SEQUENCE302	johOd056h10a1	293
SEQUENCE303	johOd056c01a1	294
SEQUENCE305	johOd053f04a2	295
SEQUENCE306	johOd032f09a1	296
SEQUENCE307	johOd033f05a1	297
SEQUENCE308	johOd050h08a2	298
SEQUENCE309	johOd049b10a2	299
SEQUENCE310	johOd049b05a2	300
SEQUENCE311	johOd049a06a2	301
SEQUENCE312	johOd006f12t2	302
SEQUENCE313	johOd006b10t2	303
SEQUENCE314	johOd006d07t2	304
SEQUENCE315,SEQUENCE325	johOd009g04t2	305
SEQUENCE316,SEQUENCE326	johOd009a12t2	306
SEQUENCE317,SEQUENCE327	johOd016g01t2	307
SEQUENCE318,SEQUENCE328,C301	johOd016a01t2	308
SEQUENCE320	johOd015f01t2	309
SEQUENCE321	johOd015h03t2	310
SEQUENCE322	johOd015a01t2	311
SEQUENCE323	johOd037b05a1	312
SEQUENCE324	johOd013b03t2	313
SEQUENCE329	johOd068b10a1	314
SEQUENCE330	johOd072b09a1	315
SEQUENCE331	johOd072c02a1	316
SEQUENCE332	johOd067b12a1	317

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SEQUENCE333	johOd067g03a1	318
SEQUENCE334	johOd072e04a1	319
SEQUENCE335	johOd071b03a2	320
SEQUENCE336	johOd070d04a2	321
SEQUENCE337	johOd071d09a2	322
SEQUENCE338	johOd073e02a2	323
SEQUENCE339	johOd071b08a2	324
SEQUENCE340	johOd071h04a2	325
SEQUENCE341	johOd060d05a2	326
SEQUENCE342	johOd062f12a2	327
SEQUENCE343	johOd062c10a2	328
SEQUENCE344	johOd060g08a2	329
SEQUENCE345	johOd093g09a1	330
SEQUENCE346	johOd093g07a1	331
SEQUENCE347	johOd093d03a1	332
SEQUENCE348	johOd093e01a1	333
SEQUENCE349	johOd096a11a1	334
SEQUENCE350	johOd096e08a1	335
SEQUENCE351	johOd094a12a1	336
SEQUENCE352	johOd094e08a1	337
SEQUENCE353	johOd095h01a1	338
SEQUENCE354	johOd095e12a1	339
SEQUENCE355	johOd085f05a1	340
SEQUENCE356	johOd085a02a1	341
SEQUENCE357	johOd091b10a1	342
SEQUENCE358	johOd091a03a1	343
SEQUENCE359	johOd091a02a1	344
SEQUENCE360	johOd091f02a1	345
SEQUENCE361	johOd090a04a1	346
SEQUENCE362	johOd090e03a1	347
SEQUENCE363	johOd090e01a1	348
SEQUENCE364	johOd084a08a1	349
SEQUENCE365	johOd083c08a1	350
SEQUENCE366	johOd083d04a1	351
SEQUENCE367,1580,97,109	cMhvf078d10a1	352
SEQUENCE368	johOd088a09a2	353
SEQUENCE369	johOd088h12a2	354
SEQUENCE370	johOd088h02a2	355
SEQUENCE371,382,408,482,492,500,371	johOe001c11a1	356
SEQUENCE372	johOe001d08a1	357
SEQUENCE373	johOe001f07a1	358
SEQUENCE374	johOe001d05a1	359
SEQUENCE375	johOe001c05a1	360
SEQUENCE376	johOe001b04a1	361
SEQUENCE377	johOe003c11a1	362
SEQUENCE378	johOe004e07a2	363
SEQUENCE379	johOe004a05a2	364
SEQUENCE380,SEQUENCE409	johOe004b02a2	365
SEQUENCE381	johOe005b12a2	366
SEQUENCE382	johOe005c09a2	367
SEQUENCE383	johOe005f06a2	368
SEQUENCE384	johOe004e05a2	369
SEQUENCE385	johOe004d04a2	370

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SEQUENCE386	johOe004h02a2	371
SEQUENCE387	johOe005b11a2	372
SEQUENCE388	johOe008e09a2	373
SEQUENCE389	johOe008h08a2	374
SEQUENCE390	johOe005c04a2	375
SEQUENCE391	johOe005b03a2	376
SEQUENCE392,SEQUENCE485	johOe005g02a2	377
SEQUENCE393	johOe006f11a2	378
SEQUENCE394	johOe006h09a2	379
SEQUENCE395	johOe011g12a2	380
SEQUENCE396	johOe006h08a2	381
SEQUENCE397	johOe006d08a2	382
SEQUENCE398	johOe009b12a2	383
SEQUENCE399	johOe006g07a2	384
SEQUENCE400	johOe006g03a2	385
SEQUENCE401	johOe011e06a2	386
SEQUENCE402	johOe008b09a2	387
SEQUENCE403	johOe006f02a2	388
SEQUENCE404	johOe011a05a2	389
SEQUENCE405	johOe008f08a2	390
SEQUENCE406	johOe008f06a2	391
SEQUENCE407	johOe005c02a2	392
SEQUENCE408,SEQUENCE500	johOe006a12a2	393
SEQUENCE410	johOe010g01a2	394
SEQUENCE411	johOe011e12a2	395
SEQUENCE412	johOe009e09a2	396
SEQUENCE413	johOe011a09a2	397
SEQUENCE414	johOe011a06a2	398
SEQUENCE415	johOe009a06a2	399
SEQUENCE416	johOe011d03a2	400
SEQUENCE417	johOe009b03a2	401
SEQUENCE418	johOe009e02a2	402
SEQUENCE419	johOe009a01a2	403
SEQUENCE420	johOe010c09a2	404
SEQUENCE421	johOe009c07a2	405
SEQUENCE422	johOe009f05a2	406
SEQUENCE423	johOe009c03a2	407
SEQUENCE424	johOe009b02a2	408
SEQUENCE425	johOe010b12a2	409
SEQUENCE426	johOe012e08a2	410
SEQUENCE427	johOe012a07a2	411
SEQUENCE428	johOe012g05a2	412
SEQUENCE429	johOe012g02a2	413
SEQUENCE430	johOe011h02a2	414
SEQUENCE431	johOe011d02a2	415
SEQUENCE432	johOe012h10a2	416
SEQUENCE433	johOe012c10a2	417
SEQUENCE434	johOe012g06a2	418
SEQUENCE435	johOe008h12a2	419
SEQUENCE436	johOe007h09a2	420
SEQUENCE437	johOe007g10a2	421
SEQUENCE438	johOe007e05a2	422
SEQUENCE439	johOe007c07a2	423

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SEQUENCE440	johOe007b03a2	424
SEQUENCE441	johOe007a09a2	425
SEQUENCE442	johOe016c08a1	426
SEQUENCE443	johOe016h07a1	427
SEQUENCE444	johOe018c11a1	428
SEQUENCE445	johOe017c06a1	429
SEQUENCE446	johOe016g01a1	430
SEQUENCE447	johOe017b03a1	431
SEQUENCE448	johOe018e05a1	432
SEQUENCE449	johOe016g11a1	433
SEQUENCE450	johOe016a09a1	434
SEQUENCE451	johOe018f12a1	435
SEQUENCE452	johOe017a09a1	436
SEQUENCE453	johOe017e08a1	437
SEQUENCE454	johOe018b11a1	438
SEQUENCE455	johOe016f05a1	439
SEQUENCE456	johOe017e06a1	440
SEQUENCE457	johOe016f04a1	441
SEQUENCE458	johOe017g05a1	442
SEQUENCE459	johOe018c06a1	443
SEQUENCE460	johOe017h02a1	444
SEQUENCE461	johOe018g02a1	445
SEQUENCE462	johOe018f01a1	446
SEQUENCE463	johOe014e12a1	447
SEQUENCE464	johOe015g07a1	448
SEQUENCE465	johOe014d05a1	449
SEQUENCE466	johOe015f04a1	450
SEQUENCE467	johOe015f02a1	451
SEQUENCE468	johOe014g05a1	452
SEQUENCE469,SEQUENCE481	johOe014g01a1	453
SEQUENCE470	johOe015f12a1	454
SEQUENCE471	johOe015a12a1	455
SEQUENCE472	johOe036g01a1	456
SEQUENCE473	johOe032e07a1	457
SEQUENCE474	johOe035g08a1	458
SEQUENCE475	johOe035g07a1	459
SEQUENCE476	johOe032b02a1	460
SEQUENCE477	johOe035b07a1	461
SEQUENCE478	johOe019b07a1	462
SEQUENCE479	johOe019a06a1	463
SEQUENCE480	johOe019h05a1	464
SEQUENCE482	johOe035e08a1	465
SEQUENCE483	johOe035h08a1	466
SEQUENCE484	johOe035e07a1	467
SEQUENCE486	johOe035c05a1	468
SEQUENCE487	johOe035c01a1	469
SEQUENCE488	johOe034a12a1	470
SEQUENCE489	johOe034e11a1	471
SEQUENCE490	johOe034a11a1	472
SEQUENCE491	johOe034g09a1	473
SEQUENCE492	johOe034g08a1	474
SEQUENCE493	johOe034c08a1	475
SEQUENCE494	johOe034h07a1	476

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SEQUENCE495	johOe034d07a1	477
SEQUENCE496	johOe034g05a1	478
SEQUENCE497	johOe033h11a1	479
SEQUENCE498	johOe034g03a1	480
SEQUENCE499	johOe034h02a1	481
SEQUENCE501	johOe033b08a1	482
SEQUENCE502	johOe033a08a1	483
SEQUENCE503	johOe033c07a1	484
SEQUENCE504	johOe033g06a1	485
SEQUENCE506	johOe035a01a1	486
SEQUENCE507	johOe034c12a1	487
SEQUENCE508	johOe033g05a1	488
SEQUENCE509	johOe033d05a1	489
SEQUENCE510	johOe034b12a1	490
SEQUENCE511	johOe033c05a1	491
SEQUENCE512	johOe033g04a1	492
SEQUENCE513	johOe034f11a1	493
SEQUENCE514	johOe033b04a1	494
SEQUENCE515	johOe034b11a1	495
SEQUENCE516	johOe033e03a1	496
SEQUENCE517	johOe034b10a1	497
SEQUENCE518	johOe034a10a1	498
SEQUENCE519	johOe034f09a1	499
SEQUENCE520	johOe034a09a1	500
SEQUENCE521	johOe034a08a1	501
SEQUENCE522	johOe032g10a1	502
SEQUENCE523	johOe034b07a1	503
SEQUENCE524	johOe032b10a1	504
SEQUENCE525	johOe034a07a1	505
SEQUENCE526	johOe034f06a1	506
SEQUENCE527	johOe034a06a1	507
SEQUENCE528	johOe034f05a1	508
SEQUENCE529	johOe033g11a1	509
SEQUENCE530	johOe033e10a1	510
SEQUENCE531	johOe034a04a1	511
SEQUENCE532	johOe034e03a1	512
SEQUENCE533	johOe034a03a1	513
SEQUENCE534	johOe033a07a1	514
SEQUENCE535	johOe034e01a1	515
SEQUENCE536	johOe034b01a1	516
SEQUENCE537	johOe033f05a1	517
SEQUENCE538	johOe033b06a1	518
SEQUENCE539	johOe033e05a1	519
SEQUENCE540	johOe033b03a1	520
SEQUENCE541	johOe033f03a1	521
SEQUENCE542	johOe032d09a1	522
SEQUENCE543	johOe037e01a1	523
SEQUENCE544	johOe036a12a1	524
SEQUENCE545	johOe036h11a1	525
SEQUENCE546	johOe036c11a1	526
SEQUENCE547	johOe036g10a1	527
SEQUENCE548	johOe037g12a1	528
SEQUENCE549	johOe036f09a1	529

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SEQUENCE550	johOe037a12a1	530
SEQUENCE551	johOe037d11a1	531
SEQUENCE552	johOe036d08a1	532
SEQUENCE553	johOe037h10a1	533
SEQUENCE554	johOe036h05a1	534
SEQUENCE555	johOe036g05a1	535
SEQUENCE556	johOe037c09a1	536
SEQUENCE557	johOe037a08a1	537
SEQUENCE558	johOe036f04a1	538
SEQUENCE559	johOe037f06a1	539
SEQUENCE560	johOe037b07a1	540
SEQUENCE561	johOe037g05a1	541
SEQUENCE562	johOe036a02a1	542
SEQUENCE563	johOe036e02a1	543
SEQUENCE564	johOe036e11a1	544
SEQUENCE565	johOe036e10a1	545
SEQUENCE566	johOe036h09a1	546
SEQUENCE567	johOe036g09a1	547
SEQUENCE568	johOe036b09a1	548
SEQUENCE569	johOe037c12a1	549
SEQUENCE570	johOe036g06a1	550
SEQUENCE571	johOe037b10a1	551
SEQUENCE572	johOe036h04a1	552
SEQUENCE573	johOe037g08a1	553
SEQUENCE574	johOe036h03a1	554
SEQUENCE575	johOe036d03a1	555
SEQUENCE576	johOe036h01a1	556
SEQUENCE577	johOe037c05a1	557
SEQUENCE578	johOe019c12a1	558
SEQUENCE579,380,409	johOe019a05a1	559
SEQUENCE580	johOe019a03a1	560
SEQUENCE581	johOe019g02a1	561
SEQUENCE582,478,582	johOe019b02a1	562
SEQUENCE583	johOe019f01a1	563
SEQUENCE584	johOe019b03a1	564
SEQUENCE585	johOe022a11a1	565
SEQUENCE586	johOe022b12a1	566
SEQUENCE587	johOe022f04a1	567
SEQUENCE588	johOe022a03a1	568
SEQUENCE589	johOe022d03a1	569
SEQUENCE590	johOe022h02a1	570
SEQUENCE591	johOe030c11a1	571
SEQUENCE592	johOe031c11a1	572
SEQUENCE593	johOe031b08a1	573
SEQUENCE594	johOe030a05a1	574
SEQUENCE595	johOe030f02a1	575
SEQUENCE596	johOe028b06a1	576
SEQUENCE597	johOe025b02a1	577
SEQUENCE598	johOe025a03a1	578
SEQUENCE599	johOe029b04a1	579
SEQUENCE600	johOe029e01a1	580
SEQUENCE601	johOe024d11a1	581
SEQUENCE603	johOe024d07a1	582

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SEQUENCE604	johOe025f09a1	583
SEQUENCE605	johOe025f07a1	584
SEQUENCE606	johOe024h01a1	585
SEQUENCE607	johOe025a06a1	586
SEQUENCE608	johOe024g01a1	587
SEQUENCE609	johOe038h08a1	588
SEQUENCE610	johOe038a09a1	589
SEQUENCE611	johOe038e02a1	590
SEQUENCE612	johOf011g10a1	591
SEQUENCE613	johOf013a09a1	592
SEQUENCE614	johOf013a02a1	593
SEQUENCE615	johOf013e12a1	594
SEQUENCE616	johOf013g11a1	595
SEQUENCE617	johOf013a07a1	596
SEQUENCE618	johOf001d11b1	597
SEQUENCE619	johOf001h08b1	598
SEQUENCE620	johOf001c09b1	599
SEQUENCE621	johOf001d07b1	600
SEQUENCE622	johOf001d06b1	601
SEQUENCE623	johOf001c04b1	602
SEQUENCE624	johOf001f06b1	603
SEQUENCE625	johOf012g12a1	604
SEQUENCE626	johOf012b11a1	605
SEQUENCE627	johOf011g01a1	606
SEQUENCE628	johOf010h08a1	607
SEQUENCE629	johOf010h03a1	608
SEQUENCE630	johOf012c03a1	609
SEQUENCE631	johOf012b03a1	610
SEQUENCE632	johOf012b07a1	611
SEQUENCE633	johOf012e05a1	612
SEQUENCE634	johOf012g04a1	613
SEQUENCE635	johOf003c10a1	614
SEQUENCE636	johOf006g12a1	615
SEQUENCE637	johOf006a12a1	616
SEQUENCE638	johOf005h10a1	617
SEQUENCE639	johOf005b01a1	618
SEQUENCE640	johOf002g09a1	619
SEQUENCE641	johOf002g07a1	620
SEQUENCE642	johOf002g05a1	621
SEQUENCE643	johOf002d12a1	622
SEQUENCE644	johOf007c04a1	623
SEQUENCE645	johOf009h09a1	624
SEQUENCE646	johOf009h05a1	625
SEQUENCE647	johOf009g06a1	626
SEQUENCE648	johOf009f11a1	627
SEQUENCE649	johOf030d11a1	628
SEQUENCE650	johOf030g04a1	629
SEQUENCE651	johOf030b03a1	630
SEQUENCE652	johOf032a07a1	631
SEQUENCE653	johOf026h02a1	632
SEQUENCE654	johOf030f02a1	633
SEQUENCE655	johOf027f06a1	634
SEQUENCE656	johOf030c02a1	635

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SEQUENCE658	johOf027f05a1	636
SEQUENCE659	johOf029b06a1	637
SEQUENCE660	johOf034e04a1	638
SEQUENCE661	johOf033c03a1	639
SEQUENCE662	johOf029b04a1	640
SEQUENCE663	johOf028g03a1	641
SEQUENCE664	johOf028e02a1	642
SEQUENCE665	johOf028e01a1	643
SEQUENCE666	johOf033g09a1	644
SEQUENCE667	johOf033f09a1	645
SEQUENCE668	johOf034d12a1	646
SEQUENCE669	johOf033d04a1	647
SEQUENCE670	johOf034b01a1	648
SEQUENCE671	johOf033d03a1	649
SEQUENCE672	johOf033h08a1	650
SEQUENCE673	johOf028g11a1	651
SEQUENCE674	johOf033f08a1	652
SEQUENCE675	johOf033f07a1	653
SEQUENCE676	johOf028d09a1	654
SEQUENCE677	johOf032g07a1	655
SEQUENCE678	johOf028g08a1	656
SEQUENCE679	johOf032h03a1	657
SEQUENCE680	johOf039a09a1	658
SEQUENCE681	johOf038g01a1	659
SEQUENCE682	johOf039f06a1	660
SEQUENCE683	johOf038g09a1	661
SEQUENCE684	johOf035f09a1	662
SEQUENCE685	johOf035b06a1	663
SEQUENCE686	johOf037e04a1	664
SEQUENCE687	johOf037e03a1	665
SEQUENCE688	johOf035g02a1	666
SEQUENCE689	johOf037c04a1	667
SEQUENCE690	johOf029h12a1	668
SEQUENCE691	johOf029h09a1	669
SEQUENCE692	johOf029b12a1	670
SEQUENCE693	johOf019f12a2	671
SEQUENCE694	johOf019h10a2	672
SEQUENCE695	johOf019c08a2	673
SEQUENCE696	johOf019b12a2	674
SEQUENCE697	johOf019b11a2	675
SEQUENCE698	johOf019f09a2	676
SEQUENCE699	johOf019g05a2	677
SEQUENCE700	johOf037h09a1	678
SEQUENCE701	johOf037c09a1	679
SEQUENCE702	johOf024c05a2	680
SEQUENCE703	johOf022e12a2	681
SEQUENCE704	johOf022c06a2	682
SEQUENCE705	johOf023h07a2	683
SEQUENCE706	johOf022d01a2	684
SEQUENCE707	johOf023d04a2	685
SEQUENCE708	johOf022b09a2	686
SEQUENCE709	johOf021b02a2	687
SEQUENCE710	johOf021b01a2	688

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SEQUENCE711	johOf023a10a2	689
SEQUENCE712	johOf022g01a2	690
SEQUENCE713	johOf020b08a2	691
SEQUENCE714	johOf057a07a1	692
SEQUENCE715	johOf057f12a1	693
SEQUENCE716	johOf057f04a1	694
SEQUENCE717	johOf057f02a1	695
SEQUENCE718	johOf056b06a1	696
SEQUENCE719	johOf056b05a1	697
SEQUENCE720	johOf056e02a1	698
SEQUENCE721	johOf056f01a1	699
SEQUENCE722	johOf068g02a1	700
SEQUENCE723	johOf068a02a1	701
SEQUENCE724	johOf068a08a1	702
SEQUENCE725	johOf068h02a1	703
SEQUENCE726	johOf065b05a1	704
SEQUENCE728	johOf068f11a1	705
SEQUENCE729	johOf065a02a1	706
SEQUENCE730	johOf066g03a1	707
SEQUENCE731	johOf066f11a1	708
SEQUENCE732	johOf065e12a1	709
SEQUENCE733	johOf069f10a1	710
SEQUENCE734	johOf065c07a1	711
SEQUENCE735	johOf069c12a1	712
SEQUENCE736	johOf067f10a1	713
SEQUENCE737	johOf067f09a1	714
SEQUENCE738	johOf067f05a1	715
SEQUENCE739	johOf067a06a1	716
SEQUENCE740	johOf067c01a1	717
SEQUENCE742	johOf067f07a1	718
SEQUENCE743	johOf067c04a1	719
SEQUENCE744	johOf067g03a1	720
SEQUENCE745	johOf067b02a1	721
SEQUENCE746	johOf067a02a1	722
SEQUENCE747	johOf067e01a1	723
SEQUENCE748	johOf066h04a1	724
SEQUENCE749	johOf058h02a1	725
SEQUENCE750	johOf062e11a1	726
SEQUENCE752	johOf062c04a1	727
SEQUENCE753	johOf062d03a1	728
SEQUENCE754	johOf062h03a1	729
SEQUENCE755	johOf058f04a1	730
SEQUENCE756	johOf064g05a1	731
SEQUENCE757	johOf064d05a1	732
SEQUENCE758	johOf069b05a1	733
SEQUENCE759	johOf069d07a1	734
SEQUENCE760	johOf069a01a1	735
SEQUENCE761	johOf063c04a1	736
SEQUENCE762	johOf063c03a1	737
SEQUENCE763	johOf017e09a1	738
SEQUENCE764	johOf017e07a1	739
SEQUENCE765	johOf017h09a1	740
SEQUENCE766	johOf014e04a1	741

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SEQUENCE767	johOf017b03a1	742
SEQUENCE768	johOf014f03a1	743
SEQUENCE769	johOf014a04a1	744
SEQUENCE770	johOf018b09a1	745
SEQUENCE771	johOf018h06a1	746
SEQUENCE772	johOf018c06a1	747
SEQUENCE773	johOf017h08a1	748
SEQUENCE774	johOf017g08a1	749
SEQUENCE775	johOf017d07a1	750
SEQUENCE776	johOf017h05a1	751
SEQUENCE777	johOf017e10a1	752
SEQUENCE778	johOf017h01a1	753
SEQUENCE779	johOf017g01a1	754
SEQUENCE780	johOf014f09a1	755
SEQUENCE781	johOf098d10a1	756
SEQUENCE782	johOf078c10a1	757
SEQUENCE783	johOf078g06a1	758
SEQUENCE784	johOf077f07a1	759
SEQUENCE785	johOf078e05a1	760
SEQUENCE786	johOf082d03a1	761
SEQUENCE787	johOf098b03a1	762
SEQUENCE788	johOf078a12a1	763
SEQUENCE789	johOf082c10a1	764
SEQUENCE790	johOf077c05a1	765
SEQUENCE791	johOf077d03a1	766
SEQUENCE793	johOf097f09a1	767
SEQUENCE794	johOf097d06a1	768
SEQUENCE795	johOf097a12a1	769
SEQUENCE796	johOf096f08a1	770
SEQUENCE797	johOf096e05a1	771
SEQUENCE798	johOf096f11a1	772
SEQUENCE799	johOf087h04a1	773
SEQUENCE800	johOf087g01a1	774
SEQUENCE801	johOf085h09a1	775
SEQUENCE802	johOf083b08a1	776
SEQUENCE803	johOf085e07a1	777
SEQUENCE804	johOf085a06a1	778
SEQUENCE805	johOf087b05a1	779
SEQUENCE806	johOf087a04a1	780
SEQUENCE807	johOf087b02a1	781
SEQUENCE808	johOf083g07a1	782
SEQUENCE809	johOf085b07a1	783
SEQUENCE810	johOf081b04a1	784
SEQUENCE811	johOf081h02a1	785
SEQUENCE812	johOf090a05a1	786
SEQUENCE813	johOf079b12a1	787
SEQUENCE814	johOf099d03a1	788
SEQUENCE815	johOf081d03a1	789
SEQUENCE816	johOf079d12a1	790
SEQUENCE817	johOf090h02a1	791
SEQUENCE818	johOf099h11a1	792
SEQUENCE819	johOf099g10a1	793
SEQUENCE820	johOf099d10a1	794

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SEQUENCE821	johOf091a09a1	795
SEQUENCE822	johOf091f01a1	796
SEQUENCE823	johOf091g08a1	797
SEQUENCE824	johOf090h11a1	798
SEQUENCE825	johOf095h02a1	799
SEQUENCE826	johOf094h10a1	800
SEQUENCE827	johOf083h01a1	801
SEQUENCE828	johOf083c01a1	802
SEQUENCE829	johOf084a03a1	803
SEQUENCE830	johOf084e11a1	804
SEQUENCE831	johOf084f06a1	805
SEQUENCE832	johOf081d07a1	806
SEQUENCE833	johOf092b09a1	807
SEQUENCE834	johOf092f08a1	808
SEQUENCE835	johOf092b04a1	809
SEQUENCE836	johOf092f04a1	810
SEQUENCE837	johOf092e04a1	811
SEQUENCE838	johOf091b12a1	812
SEQUENCE839	johOf016h06a2	813
SEQUENCE840	johOf016a12a2	814
SEQUENCE841	johOf016g07a2	815
SEQUENCE842	johOf070e12a1	816
SEQUENCE843	johOf070f07a1	817
SEQUENCE844	johOf070d07a1	818
SEQUENCE845	johOf070g11a1	819
SEQUENCE846	johOf070a10a1	820
SEQUENCE847	johOf082a01a1	821
SEQUENCE848	johOf070c04a1	822
SEQUENCE849	johOf070b06a1	823
SEQUENCE850	johOf087e09a1	824
SEQUENCE851	johOf087f07a1	825
SEQUENCE852	johOf087c08a1	826
SEQUENCE853	johOf087d06a1	827
SEQUENCE854	johOf087b06a1	828
SEQUENCE855	johOf088d07a1	829
SEQUENCE856	johOf088h06a1	830
SEQUENCE857	johOf088c05a1	831
SEQUENCE858	johOf088f05a1	832
SEQUENCE859	johOf088e03a1	833
SEQUENCE860	johOf089c08a1	834
SEQUENCE861	johOf089e01a1	835
SEQUENCE862	johOf088e10a1	836
SEQUENCE863	johOf045g08a1	837
SEQUENCE864	johOf045a04a1	838
SEQUENCE865	johOf045e01a1	839
SEQUENCE866	johOf045a02a1	840
SEQUENCE867	johOf045c04a1	841
SEQUENCE868	johOf045h03a1	842
SEQUENCE869	johOf045g01a1	843
SEQUENCE870	johOf040g12a1	844
SEQUENCE872	johOf042h06a1	845
SEQUENCE873	johOf042d06a1	846
SEQUENCE874	johOf040b09a1	847

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SEQUENCE875	johOf042g06a1	848
SEQUENCE876	johOf040c05a1	849
SEQUENCE877	johOf042b02a1	850
SEQUENCE878	johOf042b01a1	851
SEQUENCE879	johOf040a02a1	852
SEQUENCE880	johOf041a12a1	853
SEQUENCE881	johOf041g06a1	854
SEQUENCE882	johOf041c06a1	855
SEQUENCE883	johOf042b07a1	856
SEQUENCE884	johOf042a08a1	857
SEQUENCE885	johOf040e09a1	858
SEQUENCE886	johOf040e07a1	859
SEQUENCE887	johOf042g05a1	860
SEQUENCE888	johOf040h04a1	861
SEQUENCE889	johOf042a03a1	862
SEQUENCE890	johOf040d04a1	863
SEQUENCE891	johOf042d01a1	864
SEQUENCE892	johOf041c12a1	865
SEQUENCE893	johOf041g09a1	866
SEQUENCE894	johOf041e08a1	867
SEQUENCE895	johOf041c08a1	868
SEQUENCE896	johOf041e07a1	869
SEQUENCE897	johOf041e06a1	870
SEQUENCE898	johOf041b06a1	871
SEQUENCE899	johOf071c02a1	872
SEQUENCE900	johOf074e06a1	873
SEQUENCE901	johOf074b05a1	874
SEQUENCE902	johOf074c04a1	875
SEQUENCE903	johOf071g12a1	876
SEQUENCE904	johOf072a06a1	877
SEQUENCE905	johOf072g05a1	878
SEQUENCE906	johOf074g12a1	879
SEQUENCE907	johOf071g06a1	880
SEQUENCE908	johOf072e01a1	881
SEQUENCE909	johOf071a04a1	882
SEQUENCE910	johOf072d01a1	883
SEQUENCE911	johOf073h11a1	884
SEQUENCE912	johOfReA003d04a1	885
SEQUENCE913	johOfReA003h08a1	886
SEQUENCE914	johOfReA003c09a1	887
SEQUENCE915	johOfReA003c08a1	888
SEQUENCE916	johOa001c11t2	889
SEQUENCE917	johOa004c01t1	890
SEQUENCE918	johOa003f09t1	891
SEQUENCE919	johOa003f03t1	892
SEQUENCE920	johOa004h10t1	893
SEQUENCE921	johOa004b04t1	894
SEQUENCE922	johOa004d02t1	895
SEQUENCE923	johOa011d01t1	896
SEQUENCE924	johOa012g01t1	897
SEQUENCE925	johOa012a04t1	898
SEQUENCE926	johOa012e03t1	899
SEQUENCE927	johOa002a02t1	900

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SEQUENCE928	johOa005b01t2	901
SEQUENCE929	johOa011b10t1	902
SEQUENCE930	johOa011d11t1	903
SEQUENCE931	johOa013d05t1	904
SEQUENCE932	johOa013c05t1	905
SEQUENCE933	johOa013a03t1	906
SEQUENCE934	johOa013e04t1	907
SEQUENCE935	johOa014h02t1	908
SEQUENCE936	johOa014a03t1	909
SEQUENCE937	johOa015c11t1	910
SEQUENCE938	johOa016e06t1	911
SEQUENCE939	johOa014f05t1	912
SEQUENCE940	johOa015f08t1	913
SEQUENCE942	johOa014b06t1	914
SEQUENCE943	johOa010a04t2	915
SEQUENCE944	johOa010e04t2	916
SEQUENCE945	johOa010f05t2	917
SEQUENCE946	johOa009a08t2	918
SEQUENCE947	johOa009b08t2	919
SEQUENCE949	johOa009h10t2	920
SEQUENCE950	johOa007h10t2	921
SEQUENCE951	johOa009d06t2	922
SEQUENCE952	johOa031f02t1	923
SEQUENCE953	johOa031f01t1	924
SEQUENCE954	johOa030f01t1	925
SEQUENCE955	johOa029d06t1	926
SEQUENCE956	johOa029d04t1	927
SEQUENCE957	johOa029e02t1	928
SEQUENCE958	johOa028d12t1	929
SEQUENCE959	johOa029c05t1	930
SEQUENCE960	johOa029b02t1	931
SEQUENCE961	johOa025h12t1	932
SEQUENCE962	johOa025f01t1	933
SEQUENCE963	johOa025g07t1	934
SEQUENCE964	johOa025c07t1	935
SEQUENCE965	johOa025c01t1	936
SEQUENCE966	johOa019b11t1	937
SEQUENCE967	johOa018g06t1	938
SEQUENCE968	johOa018g05t1	939
SEQUENCE969	johOa018c01t1	940
SEQUENCE970	johOa018d06t1	941
SEQUENCE971	johOa020g04t1	942
SEQUENCE972	johOa038b01t1	943
SEQUENCE973	johOa037d01t1	944
SEQUENCE974	johOa058c11t1	945
SEQUENCE975	johOa040b12t1	946
SEQUENCE976	johOa039f06t1	947
SEQUENCE977	johOa058d06t1	948
SEQUENCE978	johOa039a04t1	949
SEQUENCE979	johOa058e05t1	950
SEQUENCE980	johOa039h01t1	951
SEQUENCE981	johOa039g01t1	952
SEQUENCE982	johOa057h03t1	953

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SEQUENCE983	johOa058b04t1	954
SEQUENCE984	johOa057f09t1	955
SEQUENCE985	johOa057h08t1	956
SEQUENCE986	johOa057e03t1	957
SEQUENCE987	johOa052e11t1	958
SEQUENCE988	johOa051b11t1	959
SEQUENCE989	johOa052d01t1	960
SEQUENCE990	johOa051d02t1	961
SEQUENCE991	johOa054b02t1	962
SEQUENCE992	johOa060b11t1	963
SEQUENCE993	johOa060a11t1	964
SEQUENCE994	johOa051e06t1	965
SEQUENCE995	johOa051b05t1	966
SEQUENCE996	johOa053g12t1	967
SEQUENCE997	johOa053h11t1	968
SEQUENCE998	johOa050e12t1	969
SEQUENCE999	johOa050b02t1	970
SEQUENCE1000	johOa048a06t1	971
SEQUENCE1001	johOa045f01t1	972
SEQUENCE1002	johOa050d02t1	973
SEQUENCE1003	johOa044h05t1	974
SEQUENCE1004	johOa048f12t1	975
SEQUENCE1005	johOa048g05t1	976
SEQUENCE1006	johOa044h09t1	977
SEQUENCE1007	johOa056a12t1	978
SEQUENCE1008	johOa044h04t1	979
SEQUENCE1009	johOa054g10t1	980
SEQUENCE1010	johOa056a07t1	981
SEQUENCE1011	johOa054c09t1	982
SEQUENCE1012	johOa054b04t1	983
SEQUENCE1013	johOa054e02t1	984
SEQUENCE1014	johOa056d02t1	985
SEQUENCE1015	johOa054b10t1	986
SEQUENCE1016	johOa054c04t1	987
SEQUENCE1017	johOa067h12t1	988
SEQUENCE1018	johOa067g08t1	989
SEQUENCE1019	johOa067h06t1	990
SEQUENCE1020	johOa067a10t1	991
SEQUENCE1021	johOa070g04t1	992
SEQUENCE1022	johOa070b10t1	993
SEQUENCE1023	johOa067f01t1	994
SEQUENCE1024	johOa067a02t1	995
SEQUENCE1025	johOa070d09t1	996
SEQUENCE1026	johOa070c09t1	997
SEQUENCE1027	johOa068b03t1	998
SEQUENCE1028	johOa068a11t1	999
SEQUENCE1029	johOa068a03t1	1000
SEQUENCE1030	johOb001h04t1	1001
SEQUENCE1031	johOb001d04t1	1002
SEQUENCE1032	johOb001e10t1	1003
SEQUENCE1034	johOb001h07t1	1004
SEQUENCE1035	johOb003c09t1	1005
SEQUENCE1036	johOb003f07t1	1006

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SEQUENCE1037	johOb003f06t1	1007
SEQUENCE1038	johOb003b06t1	1008
SEQUENCE1039	johOb004c10t1	1009
SEQUENCE1040	johOb004e06t1	1010
SEQUENCE1041	johOb004e02t1	1011
SEQUENCE1042	johOb004h01t1	1012
SEQUENCE1043	johOb004f09t1	1013
SEQUENCE1044	johOb004h04t1	1014
SEQUENCE1046	johOb002c11t1	1015
SEQUENCE1047	johOb002e01t1	1016
SEQUENCE1048	johOb002b11t1	1017
SEQUENCE1049	johOb006d03t1	1018
SEQUENCE1050	johOb006a03t1	1019
SEQUENCE1051	johOb005e04t1	1020
SEQUENCE1052	johOb006a11t1	1021
SEQUENCE1053	johOb012h05t1	1022
SEQUENCE1054	johOb005c06t1	1023
SEQUENCE1055	johOb006g10t1	1024
SEQUENCE1056	johOb012c03t1	1025
SEQUENCE1057	johOb013h10t1	1026
SEQUENCE1058	johOb007b05t2	1027
SEQUENCE1059	johOb010h12t1	1028
SEQUENCE1060	johOb010e09t1	1029
SEQUENCE1061	johOb016h05t1	1030
SEQUENCE1062	johOb016b01t1	1031
SEQUENCE1063	johOb022a08t1	1032
SEQUENCE1064	johOb021f05t1	1033
SEQUENCE1065	johOb018g12t1	1034
SEQUENCE1066	johOb018d10t1	1035
SEQUENCE1068	johOb018h07t1	1036
SEQUENCE1069	johOb019f11t1	1037
SEQUENCE1070	johOb025c02t1	1038
SEQUENCE1071	johOb020d07t1	1039
SEQUENCE1072	johOb021c12t1	1040
SEQUENCE1073	johOb020b07t1	1041
SEQUENCE1074	johOb020b02t1	1042
SEQUENCE1075	johOb023g09t1	1043
SEQUENCE1076	johOb019e04t1	1044
SEQUENCE1077	johOb015a05t1	1045
SEQUENCE1078	johOb015c07t1	1046
SEQUENCE1079	johOb014a12t1	1047
SEQUENCE1080	johOb014e12t1	1048
SEQUENCE1081	johOb014b12t1	1049
SEQUENCE1082	johOc001f06t1	1050
SEQUENCE1083	johOc001a05t1	1051
SEQUENCE1084	johOc001c12t1	1052
SEQUENCE1085	johOc001g09t1	1053
SEQUENCE1086	johOc001g07t1	1054
SEQUENCE1087	johOc001h06t1	1055
SEQUENCE1088	johOc006e12t1	1056
SEQUENCE1089	johOc004d11t1	1057
SEQUENCE1090	johOc006c07t1	1058
SEQUENCE1091	johOc006b07t1	1059

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SEQUENCE1092	johOc004g01t1	1060
SEQUENCE1093	johOc005d11t1	1061
SEQUENCE1094	johOc004a04t1	1062
SEQUENCE1095	johOc005b12t1	1063
SEQUENCE1096	johOc005a08t1	1064
SEQUENCE1097	johOc005c06t1	1065
SEQUENCE1098	johOc003b01t1	1066
SEQUENCE1099	johOc007g10t1	1067
SEQUENCE1100	johOc007b11t1	1068
SEQUENCE1101	johOc007b01t1	1069
SEQUENCE1102	johOc013c05t1	1070
SEQUENCE1103	johOc014a10t1	1071
SEQUENCE1104	johOc014d02t1	1072
SEQUENCE1105	johOc014c02t1	1073
SEQUENCE1106	johOc008g07t1	1074
SEQUENCE1107	johOc012a11t1	1075
SEQUENCE1108	johOc010h01t1	1076
SEQUENCE1109	johOc009h12t1	1077
SEQUENCE1110	johOc011d06t1	1078
SEQUENCE1111	johOc009g03t1	1079
SEQUENCE1112	johOc011d03t1	1080
SEQUENCE1113	johOc012g02t1	1081
SEQUENCE1114	johOc011f11t1	1082
SEQUENCE1115	johOc011a10t1	1083
SEQUENCE1116	johOc011a06t1	1084
SEQUENCE1117	johOc008c06t1	1085
SEQUENCE1118	johOc010b09t1	1086
SEQUENCE1119	johOc010h12t1	1087
SEQUENCE1120	johOc010e12t1	1088
SEQUENCE1121	johOd004d03a1	1089
SEQUENCE1122	johOd004h06b1	1090
SEQUENCE1123	johOd004b02b1	1091
SEQUENCE1124	johOd004f01b1	1092
SEQUENCE1125	johOd001h11a1	1093
SEQUENCE1126	johOd001f01b1	1094
SEQUENCE1127	johOd001a10a1	1095
SEQUENCE1128	johOd001d03b1	1096
SEQUENCE1129	johOd001d06a1	1097
SEQUENCE1130	johOd002h03b1	1098
SEQUENCE1131	johOd003e03a1	1099
SEQUENCE1132	johOd003b02a1	1100
SEQUENCE1133	johOd003e08b1	1101
SEQUENCE1134	johOd003c05b1	1102
SEQUENCE1135	johOd003c03b1	1103
SEQUENCE1136	johOd003h07b1	1104
SEQUENCE1137	johOd003f03b1	1105
SEQUENCE1138	johOd031f12t2	1106
SEQUENCE1139	johOd031b06t2	1107
SEQUENCE1140	johOd052h09a1	1108
SEQUENCE1141	johOd052e02a1	1109
SEQUENCE1142	johOd052f01a1	1110
SEQUENCE1143	johOd052f07a1	1111
SEQUENCE1144	johOd052h06a1	1112

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SEQUENCE1145	johOd052g02a1	1113
SEQUENCE1146	johOd047a10a1	1114
SEQUENCE1147	johOd047d08a1	1115
SEQUENCE1148	johOd047d12a1	1116
SEQUENCE1149	johOd047d07a1	1117
SEQUENCE1150	johOd047e04a1	1118
SEQUENCE1151	johOd045b07a1	1119
SEQUENCE1152	johOd045c06a1	1120
SEQUENCE1153	johOd054c07a1	1121
SEQUENCE1154	johOd054g05a1	1122
SEQUENCE1155	johOd054d06a1	1123
SEQUENCE1156	johOd041f07a1	1124
SEQUENCE1157	johOd046g04a1	1125
SEQUENCE1158	johOd046h03a1	1126
SEQUENCE1159	johOd046h04a1	1127
SEQUENCE1160	johOd046b04a1	1128
SEQUENCE1161	johOd051f11a1	1129
SEQUENCE1162	johOd051d03a1	1130
SEQUENCE1163	johOd051c01a1	1131
SEQUENCE1164	johOd051c02a1	1132
SEQUENCE1165	johOd051a01a1	1133
SEQUENCE1166	johOd041h01a1	1134
SEQUENCE1167	johOd057g05a1	1135
SEQUENCE1168	johOd057e03a1	1136
SEQUENCE1169	johOd057e02a1	1137
SEQUENCE1170	johOd057e01a1	1138
SEQUENCE1171	johOd058b11a1	1139
SEQUENCE1172	johOd039c10a1	1140
SEQUENCE1173,SEQUENCE1175+C1341	johOd056b11a1	1141
SEQUENCE1174	johOd056a12a1	1142
SEQUENCE1175	johOd056a11a1	1143
SEQUENCE1176	johOd056h06a1	1144
SEQUENCE1177	johOd064d04a2	1145
SEQUENCE1178	johOd065c07a2	1146
SEQUENCE1179	johOd065h02a2	1147
SEQUENCE1180	johOd064c01a2	1148
SEQUENCE1181	johOd064e10a2	1149
SEQUENCE1182	johOd064c07a2	1150
SEQUENCE1183	johOd064f06a2	1151
SEQUENCE1184	johOd065c08a2	1152
SEQUENCE1185	johOd064d05a2	1153
SEQUENCE1186	johOd065c03a2	1154
SEQUENCE1187	johOd065f03a2	1155
SEQUENCE1188	johOd064f09a2	1156
SEQUENCE1189	johOd055f07a2	1157
SEQUENCE1190	johOd055e07a2	1158
SEQUENCE1191	johOd053g12a2	1159
SEQUENCE1192	johOd053h12a2	1160
SEQUENCE1193	johOd053h06a2	1161
SEQUENCE1194	johOd053a05a2	1162
SEQUENCE1195	johOd050e12a2	1163
SEQUENCE1196	johOd048e01a2	1164
SEQUENCE1197	johOd048a01a2	1165

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SEQUENCE1198	johOd049h01a2	1166
SEQUENCE1199	johOd048f08a2	1167
SEQUENCE1200	johOd049c01a2	1168
SEQUENCE1201	johOd048a09a2	1169
SEQUENCE1202	johOd050d02a2	1170
SEQUENCE1203	johOd049g08a2	1171
SEQUENCE1204	johOd007h04t2	1172
SEQUENCE1205	johOd006e07t2	1173
SEQUENCE1206	johOd006a08t2	1174
SEQUENCE1207	johOd015h09t2	1175
SEQUENCE1208	johOd015a06t2	1176
SEQUENCE1209	johOd035f10a1	1177
SEQUENCE1210	johOd037f08a1	1178
SEQUENCE1211	johOd013h02t2	1179
SEQUENCE1212	johOd068d09a1	1180
SEQUENCE1214	johOd072e10a1	1181
SEQUENCE1215	johOd072d10a1	1182
SEQUENCE1216	johOd068f09a1	1183
SEQUENCE1217	johOd068c09a1	1184
SEQUENCE1218	johOd068d01a1	1185
SEQUENCE1219	johOd067f11a1	1186
SEQUENCE1220	johOd073c02a2	1187
SEQUENCE1221	johOd069e11a2	1188
SEQUENCE1222	johOd073a11a2	1189
SEQUENCE1223	johOd069c10a2	1190
SEQUENCE1224	johOd069g05a2	1191
SEQUENCE1225	johOd073g04a2	1192
SEQUENCE1226	johOd071c08a2	1193
SEQUENCE1227	johOd069h04a2	1194
SEQUENCE1228	johOd070e12a2	1195
SEQUENCE1229	johOd069h01a2	1196
SEQUENCE1230	johOd071a02a2	1197
SEQUENCE1231	johOd070e04a2	1198
SEQUENCE1232	johOd069h05a2	1199
SEQUENCE1233	johOd060e03a2	1200
SEQUENCE1234	johOd061g06a2	1201
SEQUENCE1235	johOd060h05a2	1202
SEQUENCE1236	johOd063a10a2	1203
SEQUENCE1237	johOd063d10a2	1204
SEQUENCE1239	johOd063d07a2	1205
SEQUENCE1240	johOd063c01a2	1206
SEQUENCE1241	johOd062h12a2	1207
SEQUENCE1242	johOd062b11a2	1208
SEQUENCE1243	johOd062h01a2	1209
SEQUENCE1244	johOd062a01a2	1210
SEQUENCE1245	johOd062c02a2	1211
SEQUENCE1246	johOd060g10a2	1212
SEQUENCE1247	johOd096c12a1	1213
SEQUENCE1248	johOd096d07a1	1214
SEQUENCE1249	johOd093f01a1	1215
SEQUENCE1250	johOd096b08a1	1216
SEQUENCE1251	johOd094c10a1	1217
SEQUENCE1252	johOd094f11a1	1218

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SEQUENCE1253	johOd094a11a1	1219
SEQUENCE1254	johOd095e03a1	1220
SEQUENCE1255	johOd095a01a1	1221
SEQUENCE1256	johOd096f05a1	1222
SEQUENCE1257	johOd096a02a1	1223
SEQUENCE1258	johOd095h09a1	1224
SEQUENCE1259	johOd095d08a1	1225
SEQUENCE1260	johOd096c03a1	1226
SEQUENCE1261	johOd096h01a1	1227
SEQUENCE1262	johOd085h10a1	1228
SEQUENCE1263	johOd085b09a1	1229
SEQUENCE1264	johOd085d07a1	1230
SEQUENCE1265	johOd085g04a1	1231
SEQUENCE1266	johOd091e08a1	1232
SEQUENCE1267	johOd091c05a1	1233
SEQUENCE1268	johOd091b03a1	1234
SEQUENCE1269	johOd091d02a1	1235
SEQUENCE1270	johOd091a01a1	1236
SEQUENCE1271	johOd091e04a1	1237
SEQUENCE1272	johOd090b12a1	1238
SEQUENCE1273	johOd090c10a1	1239
SEQUENCE1274	johOd090g09a1	1240
SEQUENCE1275	johOd090e08a1	1241
SEQUENCE1276	johOd090b07a1	1242
SEQUENCE1277	johOd090h05a1	1243
SEQUENCE1278	johOd090h03a1	1244
SEQUENCE1279	johOd090a03a1	1245
SEQUENCE1280	johOd090h01a1	1246
SEQUENCE1281	johOd090c05a1	1247
SEQUENCE1282	johOd090f04a1	1248
SEQUENCE1283	johOd083g04a1	1249
SEQUENCE1284	johOd083c07a1	1250
SEQUENCE1285	johOd083g05a1	1251
SEQUENCE1286	johOd092c07a1	1252
SEQUENCE1287	johOd084g09a1	1253
SEQUENCE1288	johOd084a06a1	1254
SEQUENCE1289	johOd084h05a1	1255
SEQUENCE1290	johOd084e02a1	1256
SEQUENCE1291	johOd085g11a1	1257
SEQUENCE1292	johOd084h09a1	1258
SEQUENCE1293	johOd084d09a1	1259
SEQUENCE1294	johOd084e01a1	1260
SEQUENCE1295	johOd085a12a1	1261
SEQUENCE1296	johOd083f08a1	1262
SEQUENCE1297	johOd083g03a1	1263
SEQUENCE1298	johOd083b08a1	1264
SEQUENCE1299	johOd083c06a1	1265
SEQUENCE1300	johOd084e12a1	1266
SEQUENCE1301	johOd090d12a1	1267
SEQUENCE1302	johOd086f06a2	1268
SEQUENCE1303	johOd086f07a2	1269
SEQUENCE1304	johOd086b02a2	1270
SEQUENCE1305	johOe001e07a1	1271

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SEQUENCE1306	johOe001d06a1	1272
SEQUENCE1307	johOe001h02a1	1273
SEQUENCE1308	johOe003e03a1	1274
SEQUENCE1309	johOe003g06a1	1275
SEQUENCE1310	johOe004f05a2	1276
SEQUENCE1311	johOe004f04a2	1277
SEQUENCE1312	johOe004d03a2	1278
SEQUENCE1313	johOe004a06a2	1279
SEQUENCE1314	johOe004a01a2	1280
SEQUENCE1315	johOe004d01a2	1281
SEQUENCE1316	johOe008h10a2	1282
SEQUENCE1317	johOe008a10a2	1283
SEQUENCE1318	johOe008h06a2	1284
SEQUENCE1319	johOe005f01a2	1285
SEQUENCE1320	johOe006f09a2	1286
SEQUENCE1321	johOe004d09a2	1287
SEQUENCE1322	johOe005d04a2	1288
SEQUENCE1323	johOe010c04a2	1289
SEQUENCE1324	johOe008b04a2	1290
SEQUENCE1325	johOe008a03a2	1291
SEQUENCE1326	johOe009g12a2	1292
SEQUENCE1327	johOe006g06a2	1293
SEQUENCE1328	johOe004e11a2	1294
SEQUENCE1329	johOe006g05a2	1295
SEQUENCE1330	johOe004g10a2	1296
SEQUENCE1331	johOe009h08a2	1297
SEQUENCE1332	johOe011d05a2	1298
SEQUENCE1333	johOe009d06a2	1299
SEQUENCE1334	johOe009h05a2	1300
SEQUENCE1335	johOe009f04a2	1301
SEQUENCE1336	johOe009a05a2	1302
SEQUENCE1337	johOe009b04a2	1303
SEQUENCE1338	johOe009h01a2	1304
SEQUENCE1339	johOe010d12a2	1305
SEQUENCE1340	johOe011e01a2	1306
SEQUENCE1341	johOe011h01a2	1307
SEQUENCE1342	johOe008g11a2	1308
SEQUENCE1343	johOe007h03a2	1309
SEQUENCE1344	johOe007e04a2	1310
SEQUENCE1345	johOe007b10a2	1311
SEQUENCE1346	johOe007b08a2	1312
SEQUENCE1347	johOe006c01a2	1313
SEQUENCE1348	johOe016c07a1	1314
SEQUENCE1349	johOe016f06a1	1315
SEQUENCE1350	johOe017b05a1	1316
SEQUENCE1351	johOe017f03a1	1317
SEQUENCE1352	johOe018e04a1	1318
SEQUENCE1353	johOe016f12a1	1319
SEQUENCE1354	johOe016a10a1	1320
SEQUENCE1355	johOe016f08a1	1321
SEQUENCE1356	johOe017b07a1	1322
SEQUENCE1357	johOe017c03a1	1323
SEQUENCE1358	johOe015a09a1	1324

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SEQUENCE1359	johOe014g07a1	1325
SEQUENCE1360	johOe014b07a1	1326
SEQUENCE1361	johOe014f03a1	1327
SEQUENCE1362	johOe014h09a1	1328
SEQUENCE1363	johOe014h06a1	1329
SEQUENCE1364	johOe014a05a1	1330
SEQUENCE1365	johOe035c11a1	1331
SEQUENCE1366	johOe032a01a1	1332
SEQUENCE1367	johOe035c06a1	1333
SEQUENCE1368	johOe035a04a1	1334
SEQUENCE1369	johOe036a01a1	1335
SEQUENCE1370	johOe032g07a1	1336
SEQUENCE1371	johOe035b10a1	1337
SEQUENCE1373	johOe035e06a1	1338
SEQUENCE1374	johOe019f05a1	1339
SEQUENCE1375	johOe035b03a1	1340
SEQUENCE1376	johOe034h11a1	1341
SEQUENCE1377	johOe034h06a1	1342
SEQUENCE1378	johOe034d05a1	1343
SEQUENCE1379	johOe034d03a1	1344
SEQUENCE1380	johOe033f08a1	1345
SEQUENCE1381	johOe034g02a1	1346
SEQUENCE1382	johOe034g01a1	1347
SEQUENCE1383	johOe033b01a1	1348
SEQUENCE1384	johOe033d08a1	1349
SEQUENCE1385	johOe034e02a1	1350
SEQUENCE1386	johOe034h01a1	1351
SEQUENCE1387	johOe033c06a1	1352
SEQUENCE1388	johOe033h03a1	1353
SEQUENCE1389	johOe033f01a1	1354
SEQUENCE1390	johOe032e10a1	1355
SEQUENCE1391	johOe037d08a1	1356
SEQUENCE1392	johOe036f03a1	1357
SEQUENCE1393	johOe036d10a1	1358
SEQUENCE1395	johOe019c11a1	1359
SEQUENCE1396	johOe019a11a1	1360
SEQUENCE1397,531,C15271311	johOe019c02a1	1361
SEQUENCE1398	johOe022f09a1	1362
SEQUENCE1399	johOe030b09a1	1363
SEQUENCE1400	johOe031d08a1	1364
SEQUENCE1401	johOe031f06a1	1365
SEQUENCE1402	johOe031f01a1	1366
SEQUENCE1403	johOe030b01a1	1367
SEQUENCE1404	johOe029f06a1	1368
SEQUENCE1405	johOe028c05a1	1369
SEQUENCE1406	johOe028d05a1	1370
SEQUENCE1407	johOe028h01a1	1371
SEQUENCE1408	johOe025e12a1	1372
SEQUENCE1409	johOe025a12a1	1373
SEQUENCE1410	johOe025g09a1	1374
SEQUENCE1411	johOe028c09a1	1375
SEQUENCE1412	johOe024a03a1	1376
SEQUENCE1413	johOe025a05a1	1377

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SEQUENCE1414	johOe038c10a1	1378
SEQUENCE1415	johOe038h03a1	1379
SEQUENCE1416	johOe038d03a1	1380
SEQUENCE1417	johOf006b02a1	1381
SEQUENCE1418	johOf006g09a1	1382
SEQUENCE1419	johOf006c06a1	1383
SEQUENCE1420	johOf011e12a1	1384
SEQUENCE1421	johOf013a06a1	1385
SEQUENCE1422	johOf001g10b1	1386
SEQUENCE1423	johOf001h04b1	1387
SEQUENCE1424	johOf001f07b1	1388
SEQUENCE1425	johOf010d07a1	1389
SEQUENCE1426	johOf012c08a1	1390
SEQUENCE1427	johOf004h12a1	1391
SEQUENCE1428	johOf005b02a1	1392
SEQUENCE1429	johOf004f07a1	1393
SEQUENCE1430	johOf002h06a1	1394
SEQUENCE1431	johOf030g07a1	1395
SEQUENCE1432	johOf030b05a1	1396
SEQUENCE1433	johOf026a11a1	1397
SEQUENCE1434	johOf026b02a1	1398
SEQUENCE1435	johOf032b12a1	1399
SEQUENCE1436	johOf032h11a1	1400
SEQUENCE1437	johOf032d10a1	1401
SEQUENCE1438	johOf032e07a1	1402
SEQUENCE1439	johOf029g05a1	1403
SEQUENCE1440	johOf032e11a1	1404
SEQUENCE1442	johOf035d04a1	1405
SEQUENCE1443	johOf029g08a1	1406
SEQUENCE1444	johOf019c10a2	1407
SEQUENCE1445	johOf019d09a2	1408
SEQUENCE1446	johOf019h05a2	1409
SEQUENCE1447	johOf037h10a1	1410
SEQUENCE1448	johOf037a10a1	1411
SEQUENCE1449	johOf037e10a1	1412
SEQUENCE1450	johOf037b09a1	1413
SEQUENCE1451	johOf037b10a1	1414
SEQUENCE1452	johOf037a09a1	1415
SEQUENCE1453	johOf023h04a2	1416
SEQUENCE1454	johOf021b09a2	1417
SEQUENCE1455	johOf023e02a2	1418
SEQUENCE1456	johOf021e06a2	1419
SEQUENCE1457	johOf023d10a2	1420
SEQUENCE1459	johOf021f01a2	1421
SEQUENCE1460	johOf024g12a2	1422
SEQUENCE1461	johOf057c12a1	1423
SEQUENCE1462	johOf057a11a1	1424
SEQUENCE1463	johOf057g09a1	1425
SEQUENCE1464	johOf057g08a1	1426
SEQUENCE1465	johOf057h07a1	1427
SEQUENCE1466	johOf057b04a1	1428
SEQUENCE1467	johOf057h02a1	1429
SEQUENCE1468	johOf057g02a1	1430

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SEQUENCE1469	johOf057h01a1	1431
SEQUENCE1470	johOf057g01a1	1432
SEQUENCE1471	johOf057e11a1	1433
SEQUENCE1472	johOf057g10a1	1434
SEQUENCE1473	johOf057b10a1	1435
SEQUENCE1474	johOf057a10a1	1436
SEQUENCE1475	johOf057a09a1	1437
SEQUENCE1476	johOf057c04a1	1438
SEQUENCE1477	johOf057b02a1	1439
SEQUENCE1478	johOf056d12a1	1440
SEQUENCE1479	johOf056h03a1	1441
SEQUENCE1480	johOf068h09a1	1442
SEQUENCE1481	johOf068e06a1	1443
SEQUENCE1482	johOf068f04a1	1444
SEQUENCE1483	johOf068d05a1	1445
SEQUENCE1484	johOf064c02a1	1446
SEQUENCE1485	johOf065b08a1	1447
SEQUENCE1486	johOf069g12a1	1448
SEQUENCE1487	johOf065h10a1	1449
SEQUENCE1488	johOf065d10a1	1450
SEQUENCE1490	johOf065f05a1	1451
SEQUENCE1491	johOf069a10a1	1452
SEQUENCE1492	johOf067h12a1	1453
SEQUENCE1493	johOf067a05a1	1454
SEQUENCE1494	johOf067e12a1	1455
SEQUENCE1495	johOf067b07a1	1456
SEQUENCE1496	johOf060a02a1	1457
SEQUENCE1497	johOf061d05a1	1458
SEQUENCE1498	johOf069b06a1	1459
SEQUENCE1499	johOf069e06a1	1460
SEQUENCE1500	johOf018a09a1	1461
SEQUENCE1501	johOf018g07a1	1462
SEQUENCE1502	johOf018h05a1	1463
SEQUENCE1503	johOf017b09a1	1464
SEQUENCE1504	johOf017e08a1	1465
SEQUENCE1505	johOf017a05a1	1466
SEQUENCE1506	johOf014g07a1	1467
SEQUENCE1507	johOf017f11a1	1468
SEQUENCE1508	johOf014h12a1	1469
SEQUENCE1509	johOf018d11a1	1470
SEQUENCE1510	johOf079e02a1	1471
SEQUENCE1511	johOf084g02a1	1472
SEQUENCE1512	johOf077f06a1	1473
SEQUENCE1513	johOf078f11a1	1474
SEQUENCE1514	johOf077e10a1	1475
SEQUENCE1515	johOf098g07a1	1476
SEQUENCE1516	johOf098d03a1	1477
SEQUENCE1517	johOf097b08a1	1478
SEQUENCE1518	johOf085a03a1	1479
SEQUENCE1519	johOf086f10a1	1480
SEQUENCE1520	johOf083b09a1	1481
SEQUENCE1521	johOf083h04a1	1482
SEQUENCE1522	johOf085h05a1	1483

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SEQUENCE1523	johOf085d04a1	1484
SEQUENCE1524	johOf085b01a1	1485
SEQUENCE1525	johOf086c09a1	1486
SEQUENCE1526	johOf086e07a1	1487
SEQUENCE1527	johOf085c07a1	1488
SEQUENCE1528	johOf083c05a1	1489
SEQUENCE1529	johOf099h07a1	1490
SEQUENCE1530	johOf081g03a1	1491
SEQUENCE1531	johOf079g12a1	1492
SEQUENCE1532	johOf099g02a1	1493
SEQUENCE1533	johOf099e12a1	1494
SEQUENCE1534	johOf081h06a1	1495
SEQUENCE1535	johOf080d02a1	1496
SEQUENCE1536	johOf099g04a1	1497
SEQUENCE1537	johOf079c11a1	1498
SEQUENCE1538	johOf099a03a1	1499
SEQUENCE1539	johOf080h07a1	1500
SEQUENCE1540	johOf095d11a1	1501
SEQUENCE1541	johOf090d10a1	1502
SEQUENCE1542	johOf084f11a1	1503
SEQUENCE1543	johOf081g12a1	1504
SEQUENCE1544	johOf081a09a1	1505
SEQUENCE1545	johOf092a05a1	1506
SEQUENCE1546	johOf016d09a2	1507
SEQUENCE1547	johOf016d08a2	1508
SEQUENCE1548	johOf016d04a2	1509
SEQUENCE1549	johOf070h11a1	1510
SEQUENCE1550	johOf087g09a1	1511
SEQUENCE1551	johOf089a08a1	1512
SEQUENCE1552	johOf088d09a1	1513
SEQUENCE1553	johOf045a05a1	1514
SEQUENCE1554	johOf040c11a1	1515
SEQUENCE1555	johOf042c06a1	1516
SEQUENCE1556	johOf041g07a1	1517
SEQUENCE1557	johOf041c02a1	1518
SEQUENCE1558	johOf042g08a1	1519
SEQUENCE1559	johOf042c03a1	1520
SEQUENCE1560	johOf041f06a1	1521
SEQUENCE1561	johOf074g09a1	1522
SEQUENCE1562	johOf072b03a1	1523
SEQUENCE1563	johOfReA003h01a1	1524
SEQUENCE1564	johOfReA003d01a1	1525
SEQUENCE1566	johOa001b01t1	1526
SEQUENCE1567	johOa004g12t1	1527
SEQUENCE1568	johOa015b07t1	1528
SEQUENCE1569	johOa031c06t1	1529
SEQUENCE1570	johOa019a09t1	1530
SEQUENCE1571	johOa070h10t1	1531
SEQUENCE1572	johOb013g03t1	1532
SEQUENCE1573	johOb023h10t1	1533
SEQUENCE1574	johOb023h02t1	1534
SEQUENCE1575	johOc006d07t1	1535
SEQUENCE1576	johOc005c01t1	1536

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SEQUENCE1577	johOc009b03t1	1537
SEQUENCE1578	johOd004c10a1	1538
SEQUENCE1579	johOd004f08a1	1539
SEQUENCE1580	johOd004e04a1	1540
SEQUENCE1581	johOd004h03a1	1541
SEQUENCE1582	johOd004e11a1	1542
SEQUENCE1583	johOd004g02a1	1543
SEQUENCE1584	johOd002a10b1	1544
SEQUENCE1585	johOd002f08b1	1545
SEQUENCE1586	johOd002e11b1	1546
SEQUENCE1587	johOd002c10b1	1547
SEQUENCE1588,SEQUENCE1586	johOd002e04b1	1548
SEQUENCE1589	johOd031c02t2	1549
SEQUENCE1590	johOd046d02a1	1550
SEQUENCE1591	johOd015c08t2	1551
SEQUENCE1592	johOd096d03a1	1552
SEQUENCE1593	johOe017d08a1	1553
SEQUENCE1594	johOe037g09a1	1554
SEQUENCE1595	johOe037c01a1	1555
SEQUENCE1596	johOe022d12a1	1556
SEQUENCE1597	johOf005e01a1	1557
SEQUENCE1598	johOf002b08a1	1558
SEQUENCE1599	johOf028d01a1	1559
SEQUENCE1600	johOf020f10a2	1560
SEQUENCE1601	johOf067c03a1	1561
SEQUENCE1603	johOf090h03a1	1562
SEQUENCE1604	johOf094e10a1	1563
SEQUENCE1605	johOf016c08a2	1564
SEQUENCE1606	johOf088a04a1	1565
SEQUENCE1607	johOa001a01t1	1566
SEQUENCE1608	johOa001b10t2	1567
SEQUENCE1609	johOa001c09t2	1568
SEQUENCE1610	johOa001c10t2	1569
SEQUENCE1611	johOa001e01t1	1570
SEQUENCE1612	johOa001f11t2	1571
SEQUENCE1613	johOa002a04t1	1572
SEQUENCE1614	johOa002c03t1	1573
SEQUENCE1615	johOa002c11t1	1574
SEQUENCE1616	johOa002d02t1	1575
SEQUENCE1617	johOa002g09t1	1576
SEQUENCE1618	johOa002g11t1	1577
SEQUENCE1619	johOa003a09t1	1578
SEQUENCE1620	johOa003b03t1	1579
SEQUENCE1621	johOa003b05t1	1580
SEQUENCE1622	johOa003e12t1	1581
SEQUENCE1623	johOa003f02t1	1582
SEQUENCE1624	johOa003f07t1	1583
SEQUENCE1625	johOa003f08t1	1584
SEQUENCE1626	johOa003g08t1	1585
SEQUENCE1627	johOa003g11t1	1586
SEQUENCE1628	johOa003h06t1	1587
SEQUENCE1629	johOa003h08t1	1588
SEQUENCE1630	johOa003h12t1	1589

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SEQUENCE1631	johOa004a07t1	1590
SEQUENCE1632	johOa004b01t1	1591
SEQUENCE1633	johOa004b10t1	1592
SEQUENCE1634	johOa004c03t1	1593
SEQUENCE1636	johOa004e03t1	1594
SEQUENCE1637	johOa004f01t1	1595
SEQUENCE1638	johOa004f04t1	1596
SEQUENCE1639	johOa004f10t1	1597
SEQUENCE1640	johOa004g07t1	1598
SEQUENCE1641	johOa004h01t1	1599
SEQUENCE1642	johOa004h04t1	1600
SEQUENCE1643	johOa005a02t2	1601
SEQUENCE1644	johOa005a06t2	1602
SEQUENCE1645	johOa005b06t2	1603
SEQUENCE1646	johOa005b09t2	1604
SEQUENCE1647	johOa005d03t2	1605
SEQUENCE1648	johOa005e03t2	1606
SEQUENCE1649	johOa005e07t2	1607
SEQUENCE1650	johOa005f01t2	1608
SEQUENCE1651	johOa005g01t2	1609
SEQUENCE1652	johOa005g05t2	1610
SEQUENCE1653	johOa005g10t2	1611
SEQUENCE1654	johOa006a02t2	1612
SEQUENCE1655	johOa006d02t2	1613
SEQUENCE1656	johOa006e04t2	1614
SEQUENCE1657	johOa006h03t2	1615
SEQUENCE1658	johOa006h04t2	1616
SEQUENCE1659	johOa006h06t2	1617
SEQUENCE1660	johOa007c05t2	1618
SEQUENCE1661	johOa007d09t2	1619
SEQUENCE1662	johOa007f01t2	1620
SEQUENCE1663	johOa007f05t2	1621
SEQUENCE1664	johOa007g09t2	1622
SEQUENCE1665	johOa007h03t2	1623
SEQUENCE1666	johOa007h08t2	1624
SEQUENCE1667	johOa009a10t2	1625
SEQUENCE1668	johOa009a11t2	1626
SEQUENCE1670	johOa009d10t2	1627
SEQUENCE1671	johOa009e10t2	1628
SEQUENCE1672	johOa009e12t2	1629
SEQUENCE1673	johOa009f06t2	1630
SEQUENCE1674	johOa009g11t2	1631
SEQUENCE1675	johOa010a10t2	1632
SEQUENCE1676	johOa010c04t2	1633
SEQUENCE1677	johOa010d02t2	1634
SEQUENCE1678	johOa010d11t2	1635
SEQUENCE1679	johOa010e05t2	1636
SEQUENCE1680	johOa010e07t2	1637
SEQUENCE1681	johOa010f04t2	1638
SEQUENCE1682	johOa010g04t2	1639
SEQUENCE1683	johOa010g12t2	1640
SEQUENCE1685	johOa011e10t1	1641
SEQUENCE1686	johOa011f11t1	1642

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SEQUENCE1687	johOa011g11t1	1643
SEQUENCE1688	johOa011h10t1	1644
SEQUENCE1689	johOa012a07t1	1645
SEQUENCE1690	johOa012b02t1	1646
SEQUENCE1692	johOa012e02t1	1647
SEQUENCE1693	johOa012f02t1	1648
SEQUENCE1694	johOa012f03t1	1649
SEQUENCE1695	johOa012f05t1	1650
SEQUENCE1696	johOa012f10t1	1651
SEQUENCE1697	johOa012g12t1	1652
SEQUENCE1698	johOa012h02t1	1653
SEQUENCE1699	johOa012h03t1	1654
SEQUENCE1700	johOa012h06t1	1655
SEQUENCE1701	johOa013a12t1	1656
SEQUENCE1702	johOa013b03t1	1657
SEQUENCE1703	johOa013b05t1	1658
SEQUENCE1704	johOa013b06t1	1659
SEQUENCE1705	johOa013c02t1	1660
SEQUENCE1706	johOa013d02t1	1661
SEQUENCE1707	johOa013d03t1	1662
SEQUENCE1708	johOa013d04t1	1663
SEQUENCE1709	johOa013e09t1	1664
SEQUENCE1710	johOa013f01t1	1665
SEQUENCE1711	johOa013g11t1	1666
SEQUENCE1712	johOa014a08t1	1667
SEQUENCE1713	johOa014d02t1	1668
SEQUENCE1714	johOa014d10t1	1669
SEQUENCE1715	johOa014f02t1	1670
SEQUENCE1716	johOa014g06t1	1671
SEQUENCE1717	johOa014h03t1	1672
SEQUENCE1718	johOa015e03t1	1673
SEQUENCE1719	johOa015f09t1	1674
SEQUENCE1720	johOa015h04t1	1675
SEQUENCE1721	johOa015h06t1	1676
SEQUENCE1722	johOa016a09t1	1677
SEQUENCE1723	johOa016b11t1	1678
SEQUENCE1724	johOa016d08t1	1679
SEQUENCE1725	johOa016f03t1	1680
SEQUENCE1726	johOa016g12t1	1681
SEQUENCE1727	johOa016h05t1	1682
SEQUENCE1728	johOa016h09t1	1683
SEQUENCE1730	johOa018e01t1	1684
SEQUENCE1731	johOa019c05t1	1685
SEQUENCE1732	johOa019e08t1	1686
SEQUENCE1733	johOa019g01t1	1687
SEQUENCE1735	johOa019h08t1	1688
SEQUENCE1736	johOa020b09t1	1689
SEQUENCE1737	johOa020b11t1	1690
SEQUENCE1738	johOa020c09t1	1691
SEQUENCE1739	johOa020e08t1	1692
SEQUENCE1740	johOa020e09t1	1693
SEQUENCE1741	johOa020f08t1	1694
SEQUENCE1742	johOa024d01t1	1695

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SEQUENCE1743	johOa025a09t1	1696
SEQUENCE1744	johOa025b05t1	1697
SEQUENCE1745	johOa025b08t1	1698
SEQUENCE1746	johOa025b09t1	1699
SEQUENCE1747	johOa025d02t1	1700
SEQUENCE1748	johOa025d11t1	1701
SEQUENCE1749	johOa025e11t1	1702
SEQUENCE1750	johOa025e12t1	1703
SEQUENCE1752	johOa025h02t1	1704
SEQUENCE1753	johOa027a04t1	1705
SEQUENCE1754	johOa027b09t1	1706
SEQUENCE1755	johOa027e09t1	1707
SEQUENCE1756	johOa027f01t1	1708
SEQUENCE1757	johOa027f11t1	1709
SEQUENCE1758	johOa028a08t1	1710
SEQUENCE1759	johOa028b11t1	1711
SEQUENCE1760	johOa028f04t1	1712
SEQUENCE1761	johOa028f10t1	1713
SEQUENCE1762	johOa028h01t1	1714
SEQUENCE1763	johOa029a05t1	1715
SEQUENCE1764	johOa029b04t1	1716
SEQUENCE1766	johOa029c07t1	1717
SEQUENCE1768	johOa029g09t1	1718
SEQUENCE1769	johOa030a01t1	1719
SEQUENCE1770	johOa030b01t1	1720
SEQUENCE1771	johOa030h02t1	1721
SEQUENCE1772	johOa030h05t1	1722
SEQUENCE1773	johOa031a01t1	1723
SEQUENCE1774	johOa031a08t1	1724
SEQUENCE1775	johOa031a09t1	1725
SEQUENCE1776	johOa031b07t1	1726
SEQUENCE1777	johOa031d11t1	1727
SEQUENCE1778	johOa031e09t1	1728
SEQUENCE1779	johOa031h06t1	1729
SEQUENCE1780	johOa037a09t1	1730
SEQUENCE1781	johOa037g05t1	1731
SEQUENCE1782	johOa038e07t1	1732
SEQUENCE1783	johOa038e12t1	1733
SEQUENCE1784	johOa038h09t1	1734
SEQUENCE1785	johOa039a03t1	1735
SEQUENCE1786	johOa039g07t1	1736
SEQUENCE1787	johOa039g08t1	1737
SEQUENCE1788	johOa039h02t1	1738
SEQUENCE1789	johOa039h04t1	1739
SEQUENCE1790	johOa040b09t1	1740
SEQUENCE1791	johOa040c12t1	1741
SEQUENCE1792	johOa040e09t1	1742
SEQUENCE1793	johOa040e11t1	1743
SEQUENCE1794	johOa040f07t1	1744
SEQUENCE1795	johOa044a01t1	1745
SEQUENCE1796	johOa044a04t1	1746
SEQUENCE1797	johOa045g02t1	1747
SEQUENCE1798	johOa047a04t1	1748

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SEQUENCE1799	johOa047h03t1	1749
SEQUENCE1800	johOa048b06t1	1750
SEQUENCE1801	johOa048c08t1	1751
SEQUENCE1802	johOa048g07t1	1752
SEQUENCE1803	johOa050b04t1	1753
SEQUENCE1804	johOa050b06t1	1754
SEQUENCE1805	johOa050e11t1	1755
SEQUENCE1806	johOa051d10t1	1756
SEQUENCE1807	johOa051d12t1	1757
SEQUENCE1808	johOa051e12t1	1758
SEQUENCE1809	johOa052c04t1	1759
SEQUENCE1810	johOa052c09t1	1760
SEQUENCE1811	johOa052g02t1	1761
SEQUENCE1812	johOa052h03t1	1762
SEQUENCE1813	johOa053a01t1	1763
SEQUENCE1815	johOa053f06t1	1764
SEQUENCE1816	johOa054a04t1	1765
SEQUENCE1817	johOa054a10t1	1766
SEQUENCE1818	johOa054b07t1	1767
SEQUENCE1819	johOa054e01t1	1768
SEQUENCE1820	johOa054e09t1	1769
SEQUENCE1821	johOa054f01t1	1770
SEQUENCE1822	johOa054f06t1	1771
SEQUENCE1823	johOa054f07t1	1772
SEQUENCE1824	johOa054g08t1	1773
SEQUENCE1825	johOa056a02t1	1774
SEQUENCE1826	johOa056e05t1	1775
SEQUENCE1827	johOa056e10t1	1776
SEQUENCE1828	johOa056g12t1	1777
SEQUENCE1829	johOa057d11t1	1778
SEQUENCE1830	johOa057e07t1	1779
SEQUENCE1831	johOa058a03t1	1780
SEQUENCE1832	johOa058b02t1	1781
SEQUENCE1833	johOa058b11t1	1782
SEQUENCE1834	johOa058c05t1	1783
SEQUENCE1835	johOa058c07t1	1784
SEQUENCE1836	johOa058e07t1	1785
SEQUENCE1837	johOa058e08t1	1786
SEQUENCE1838	johOa058f06t1	1787
SEQUENCE1839	johOa060c01t1	1788
SEQUENCE1840	johOa060h07t1	1789
SEQUENCE1841	johOa062c03t1	1790
SEQUENCE1842	johOa067a09t1	1791
SEQUENCE1843	johOa067b02t1	1792
SEQUENCE1844	johOa067c02t1	1793
SEQUENCE1845	johOa067e11t1	1794
SEQUENCE1846	johOa067g01t1	1795
SEQUENCE1847	johOa068b04t1	1796
SEQUENCE1848	johOa068c07t1	1797
SEQUENCE1849	johOa068e10t1	1798
SEQUENCE1850	johOa068f08t1	1799
SEQUENCE1851	johOa068g05t1	1800
SEQUENCE1852	johOa068h04t1	1801

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SEQUENCE1853	johOa070a11t1	1802
SEQUENCE1854	johOa070b01t1	1803
SEQUENCE1855	johOa070b05t1	1804
SEQUENCE1856	johOa070b08t1	1805
SEQUENCE1857	johOa070b09t1	1806
SEQUENCE1858	johOa070c01t1	1807
SEQUENCE1859	johOa070c12t1	1808
SEQUENCE1860	johOa070e05t1	1809
SEQUENCE1861	johOa070e08t1	1810
SEQUENCE1862	johOa070f09t1	1811
SEQUENCE1863	johOa070g05t1	1812
SEQUENCE1864	johOa070g09t1	1813
SEQUENCE1865	johOa070h11t1	1814
SEQUENCE1866	johOb001c05t1	1815
SEQUENCE1867	johOb001c07t1	1816
SEQUENCE1868	johOb001e12t1	1817
SEQUENCE1869	johOb001g06t1	1818
SEQUENCE1870	johOb001h03t1	1819
SEQUENCE1871	johOb001h11t1	1820
SEQUENCE1872	johOb002c09t1	1821
SEQUENCE1873	johOb002f03t1	1822
SEQUENCE1874	johOb002f10t1	1823
SEQUENCE1875	johOb002h05t1	1824
SEQUENCE1876	johOb003a05t1	1825
SEQUENCE1877	johOb003a12t1	1826
SEQUENCE1878	johOb003b07t1	1827
SEQUENCE1879	johOb003c06t1	1828
SEQUENCE1880	johOb003d03t1	1829
SEQUENCE1881	johOb003d09t1	1830
SEQUENCE1882	johOb003f03t1	1831
SEQUENCE1883	johOb003f08t1	1832
SEQUENCE1884	johOb003f11t1	1833
SEQUENCE1885	johOb004c09t1	1834
SEQUENCE1886	johOb004c12t1	1835
SEQUENCE1887	johOb004e10t1	1836
SEQUENCE1888	johOb004g04t1	1837
SEQUENCE1889	johOb004g05t1	1838
SEQUENCE1890	johOb004g09t1	1839
SEQUENCE1891	johOb004h12t1	1840
SEQUENCE1892	johOb005a09t1	1841
SEQUENCE1893	johOb005h02t1	1842
SEQUENCE1894	johOb006a05t1	1843
SEQUENCE1895	johOb006d04t1	1844
SEQUENCE1896	johOb006f11t1	1845
SEQUENCE1897	johOb006g05t1	1846
SEQUENCE1898	johOb006g07t1	1847
SEQUENCE1899	johOb007d05t2	1848
SEQUENCE1900	johOb008f10t1	1849
SEQUENCE1901	johOb008g06t1	1850
SEQUENCE1902	johOb008h12t1	1851
SEQUENCE1903	johOb010a07t1	1852
SEQUENCE1904	johOb010f10t1	1853
SEQUENCE1905	johOb011b09t1	1854

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SEQUENCE1906	johOb011e04t1	1855
SEQUENCE1907	johOb011e10t1	1856
SEQUENCE1908	johOb011e12t1	1857
SEQUENCE1909	johOb011h08t1	1858
SEQUENCE1910	johOb012b08t1	1859
SEQUENCE1911	johOb012c09t1	1860
SEQUENCE1912	johOb012f06t1	1861
SEQUENCE1913	johOb012h11t1	1862
SEQUENCE1914	johOb013b08t1	1863
SEQUENCE1915	johOb013c04t1	1864
SEQUENCE1916	johOb013c09t1	1865
SEQUENCE1917	johOb013f01t1	1866
SEQUENCE1918	johOb014b09t1	1867
SEQUENCE1919	johOb014c02t1	1868
SEQUENCE1920	johOb014c03t1	1869
SEQUENCE1921	johOb014f05t1	1870
SEQUENCE1922	johOb014g07t1	1871
SEQUENCE1923	johOb014h11t1	1872
SEQUENCE1924	johOb015a11t1	1873
SEQUENCE1925	johOb015d01t1	1874
SEQUENCE1926	johOb015d05t1	1875
SEQUENCE1927	johOb015f07t1	1876
SEQUENCE1928	johOb015g01t1	1877
SEQUENCE1929	johOb015g07t1	1878
SEQUENCE1930	johOb015h05t1	1879
SEQUENCE1931	johOb016g09t1	1880
SEQUENCE1932	johOb016h02t1	1881
SEQUENCE1933	johOb017c07t1	1882
SEQUENCE1934	johOb018a02t1	1883
SEQUENCE1935	johOb018f01t1	1884
SEQUENCE1936	johOb018f04t1	1885
SEQUENCE1937	johOb018f12t1	1886
SEQUENCE1938	johOb018g06t1	1887
SEQUENCE1939	johOb018h04t1	1888
SEQUENCE1940	johOb019a08t1	1889
SEQUENCE1941	johOb019e03t1	1890
SEQUENCE1942	johOb019h02t1	1891
SEQUENCE1943	johOb020a02t1	1892
SEQUENCE1944	johOb020c01t1	1893
SEQUENCE1945	johOb020e04t1	1894
SEQUENCE1946	johOb020f02t1	1895
SEQUENCE1947	johOb021a11t1	1896
SEQUENCE1948	johOb021f01t1	1897
SEQUENCE1949	johOb021g03t1	1898
SEQUENCE1950	johOb021g06t1	1899
SEQUENCE1951	johOb021h11t1	1900
SEQUENCE1952	johOb021h12t1	1901
SEQUENCE1953	johOb022a04t1	1902
SEQUENCE1954	johOb022a05t1	1903
SEQUENCE1955	johOb022b11t1	1904
SEQUENCE1956	johOb022d02t1	1905
SEQUENCE1957	johOb022d04t1	1906
SEQUENCE1958	johOb022e09t1	1907

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SEQUENCE1959	johOb022f03t1	1908
SEQUENCE1960	johOb023a04t1	1909
SEQUENCE1961	johOb023e08t1	1910
SEQUENCE1963	johOb023g07t1	1911
SEQUENCE1964	johOb024b11t1	1912
SEQUENCE1965	johOb024d11t1	1913
SEQUENCE1966	johOb024e11t1	1914
SEQUENCE1967	johOb024g12t1	1915
SEQUENCE1968	johOb025b01t1	1916
SEQUENCE1969	johOb025d05t1	1917
SEQUENCE1970	johOb025e04t1	1918
SEQUENCE1971	johOb025f02t1	1919
SEQUENCE1972	johOb025f05t1	1920
SEQUENCE1973	johOb025g12t1	1921
SEQUENCE1974	johOb025h08t1	1922
SEQUENCE1975	johOc001a02t1	1923
SEQUENCE1976	johOc001a06t1	1924
SEQUENCE1977	johOc001b02t1	1925
SEQUENCE1978	johOc001c05t1	1926
SEQUENCE1979	johOc001c10t1	1927
SEQUENCE1980	johOc001d04t1	1928
SEQUENCE1981	johOc001d10t1	1929
SEQUENCE1982	johOc001d11t1	1930
SEQUENCE1983	johOc001d12t1	1931
SEQUENCE1984	johOc001e08t1	1932
SEQUENCE1985	johOc001f08t1	1933
SEQUENCE1986	johOc001g05t1	1934
SEQUENCE1987	johOc001h02t1	1935
SEQUENCE1988	johOc001h07t1	1936
SEQUENCE1989	johOc002b11t1	1937
SEQUENCE1990	johOc002e05t1	1938
SEQUENCE1991	johOc002h10t1	1939
SEQUENCE1992	johOc003c01t1	1940
SEQUENCE1993	johOc003d02t1	1941
SEQUENCE1994	johOc003e08t1	1942
SEQUENCE1995	johOc003f01t1	1943
SEQUENCE1996	johOc003h05t1	1944
SEQUENCE1997	johOc004b10t1	1945
SEQUENCE1998	johOc004c08t1	1946
SEQUENCE1999	johOc005a05t1	1947
SEQUENCE2000	johOc005f11t1	1948
SEQUENCE2001	johOc005g03t1	1949
SEQUENCE2002	johOc006a12t1	1950
SEQUENCE2003	johOc006c10t1	1951
SEQUENCE2004	johOc006c12t1	1952
SEQUENCE2005	johOc006e08t1	1953
SEQUENCE2006	johOc006f05t1	1954
SEQUENCE2007	johOc006h02t1	1955
SEQUENCE2008	johOc007a08t1	1956
SEQUENCE2009	johOc007c02t1	1957
SEQUENCE2010	johOc007e03t1	1958
SEQUENCE2011	johOc007e10t1	1959
SEQUENCE2012	johOc007f05t1	1960

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SEQUENCE2013	johOc007h10t1	1961
SEQUENCE2014	johOc008a11t1	1962
SEQUENCE2015	johOc008d05t1	1963
SEQUENCE2016	johOc008d07t1	1964
SEQUENCE2017	johOc008d09t1	1965
SEQUENCE2018	johOc008d12t1	1966
SEQUENCE2019	johOc008e11t1	1967
SEQUENCE2020	johOc008f06t1	1968
SEQUENCE2021	johOc008g09t1	1969
SEQUENCE2022	johOc008h01t1	1970
SEQUENCE2023	johOc009c04t1	1971
SEQUENCE2024	johOc009c06t1	1972
SEQUENCE2025	johOc009d07t1	1973
SEQUENCE2026	johOc009e05t1	1974
SEQUENCE2027	johOc009f11t1	1975
SEQUENCE2028	johOc009h05t1	1976
SEQUENCE2029	johOc010a04t1	1977
SEQUENCE2030	johOc010a11t1	1978
SEQUENCE2031	johOc010f12t1	1979
SEQUENCE2032	johOc011a01t1	1980
SEQUENCE2033	johOc011a02t1	1981
SEQUENCE2034	johOc011b03t1	1982
SEQUENCE2035	johOc011b08t1	1983
SEQUENCE2036	johOc011c03t1	1984
SEQUENCE2037	johOc011d05t1	1985
SEQUENCE2038	johOc011e07t1	1986
SEQUENCE2039	johOc011g09t1	1987
SEQUENCE2040	johOc011h06t1	1988
SEQUENCE2041	johOc012g07t1	1989
SEQUENCE2042	johOc013c06t1	1990
SEQUENCE2043	johOc013e03t1	1991
SEQUENCE2044	johOc013f05t1	1992
SEQUENCE2045	johOc013g05t1	1993
SEQUENCE2046	johOc013g09t1	1994
SEQUENCE2047	johOc014b08t1	1995
SEQUENCE2048	johOc014b10t1	1996
SEQUENCE2049	johOc014c08t1	1997
SEQUENCE2050	johOc014d11t1	1998
SEQUENCE2051	johOc014e09t1	1999
SEQUENCE2052	johOc014g11t1	2000
SEQUENCE2053	johOc014h05t1	2001
SEQUENCE2054	johOc014h07t1	2002
SEQUENCE2055	johOc015h09t1	2003
SEQUENCE2056	johOc015h10t1	2004
SEQUENCE2057	johOc016b12t1	2005
SEQUENCE2058	johOc016c02t1	2006
SEQUENCE2059	johOc016d10t1	2007
SEQUENCE2060	johOc016f10t1	2008
SEQUENCE2061	johOd001a05b1	2009
SEQUENCE2062	johOd001b05a1	2010
SEQUENCE2063	johOd001b08b1	2011
SEQUENCE2064	johOd001d10a1	2012
SEQUENCE2066	johOd001e01b1	2013

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SEQUENCE2067	johOd001e04b1	2014
SEQUENCE2068	johOd001e09b1	2015
SEQUENCE2069	johOd001f07b1	2016
SEQUENCE2070	johOd001f09a1	2017
SEQUENCE2071	johOd001g06b1	2018
SEQUENCE2072	johOd001g07b1	2019
SEQUENCE2073	johOd001h02a1	2020
SEQUENCE2074	johOd001h05a1	2021
SEQUENCE2075	johOd001h08a1	2022
SEQUENCE2076	johOd001h10b1	2023
SEQUENCE2078	johOd002d08b1	2024
SEQUENCE2079	johOd002e06a1	2025
SEQUENCE2080	johOd002e10a1	2026
SEQUENCE2081	johOd002e12a1	2027
SEQUENCE2082	johOd002h06a1	2028
SEQUENCE2084	johOd003a09a1	2029
SEQUENCE2085	johOd003c04b1	2030
SEQUENCE2086	johOd003d06b1	2031
SEQUENCE2087	johOd003f03a1	2032
SEQUENCE2088	johOd003g07a1	2033
SEQUENCE2089	johOd003h04b1	2034
SEQUENCE2090	johOd004a10a1	2035
SEQUENCE2091	johOd004d01b1	2036
SEQUENCE2092	johOd004f05a1	2037
SEQUENCE2093	johOd005c07t1	2038
SEQUENCE2094	johOd005g01t1	2039
SEQUENCE2095	johOd005g09t1	2040
SEQUENCE2096	johOd006f07t2	2041
SEQUENCE2097	johOd006f10t2	2042
SEQUENCE2098	johOd007f06t2	2043
SEQUENCE2099	johOd009d02t2	2044
SEQUENCE2100	johOd013c04t2	2045
SEQUENCE2101	johOd014h12t2	2046
SEQUENCE2102	johOd015a05t2	2047
SEQUENCE2103	johOd015g08t2	2048
SEQUENCE2104	johOd015h01t2	2049
SEQUENCE2105	johOd015h06t2	2050
SEQUENCE2106	johOd031b10t2	2051
SEQUENCE2107	johOd031e04t2	2052
SEQUENCE2108	johOd031e09t2	2053
SEQUENCE2109	johOd031e12t2	2054
SEQUENCE2110	johOd031f01t2	2055
SEQUENCE2111	johOd031g08t2	2056
SEQUENCE2112	johOd031h05t2	2057
SEQUENCE2113	johOd033f01a1	2058
SEQUENCE2114	johOd035d06t1	2059
SEQUENCE2115	johOd035e04a1	2060
SEQUENCE2116	johOd037a05a1	2061
SEQUENCE2117	johOd037c06a1	2062
SEQUENCE2119	johOd037e07a1	2063
SEQUENCE2120	johOd037e10a1	2064
SEQUENCE2121	johOd037h08a1	2065
SEQUENCE2122	johOd039e12a1	2066

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SEQUENCE2123	johOd039g08a1	2067
SEQUENCE2124	johOd040c11a2	2068
SEQUENCE2125	johOd045c04a1	2069
SEQUENCE2126	johOd045c10a1	2070
SEQUENCE2127	johOd046a05a1	2071
SEQUENCE2128	johOd046e05a1	2072
SEQUENCE2129	johOd046g02a1	2073
SEQUENCE2130	johOd046h01a1	2074
SEQUENCE2131	johOd047a01a1	2075
SEQUENCE2132	johOd047d01a1	2076
SEQUENCE2133	johOd047h01a1	2077
SEQUENCE2134	johOd048e11a2	2078
SEQUENCE2135	johOd048f09a2	2079
SEQUENCE2136	johOd048h04a2	2080
SEQUENCE2137	johOd048h12a2	2081
SEQUENCE2138	johOd049c08a2	2082
SEQUENCE2139	johOd050c03a2	2083
SEQUENCE2140	johOd050d12a2	2084
SEQUENCE2141	johOd052a01a1	2085
SEQUENCE2142	johOd052c12a1	2086
SEQUENCE2143	johOd053a04a2	2087
SEQUENCE2144	johOd053f02a2	2088
SEQUENCE2145	johOd054c02a1	2089
SEQUENCE2146	johOd054d02a1	2090
SEQUENCE2147	johOd054d10a1	2091
SEQUENCE2148	johOd055b07a2	2092
SEQUENCE2149	johOd055b08a2	2093
SEQUENCE2150	johOd056b06a1	2094
SEQUENCE2151	johOd056c02a1	2095
SEQUENCE2152	johOd056e11a1	2096
SEQUENCE2153	johOd056g03a1	2097
SEQUENCE2154	johOd057a11a1	2098
SEQUENCE2155	johOd060b06a2	2099
SEQUENCE2156	johOd060c06a2	2100
SEQUENCE2157	johOd060d03a2	2101
SEQUENCE2158	johOd060f01a2	2102
SEQUENCE2159	johOd060f06a2	2103
SEQUENCE2160	johOd061a01a2	2104
SEQUENCE2161	johOd061a12a2	2105
SEQUENCE2162	johOd061e08a2	2106
SEQUENCE2163	johOd062a04a2	2107
SEQUENCE2164	johOd062b08a2	2108
SEQUENCE2165	johOd062g01a2	2109
SEQUENCE2166	johOd062h04a2	2110
SEQUENCE2167	johOd063c02a2	2111
SEQUENCE2168	johOd063d05a2	2112
SEQUENCE2170	johOd064b08a2	2113
SEQUENCE2171	johOd064b09a2	2114
SEQUENCE2172	johOd064d03a2	2115
SEQUENCE2173	johOd064d11a2	2116
SEQUENCE2174	johOd065h08a2	2117
SEQUENCE2175	johOd067f09a1	2118
SEQUENCE2176	johOd068b07a1	2119

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SEQUENCE2177	johOd068c02a1	2120
SEQUENCE2178	johOd068e09a1	2121
SEQUENCE2179	johOd068h11a1	2122
SEQUENCE2180	johOd069a05a2	2123
SEQUENCE2181	johOd069a10a2	2124
SEQUENCE2182	johOd069b06a2	2125
SEQUENCE2183	johOd069d10a2	2126
SEQUENCE2184	johOd070a01a2	2127
SEQUENCE2185	johOd070a11a2	2128
SEQUENCE2186	johOd070d08a2	2129
SEQUENCE2187	johOd070f08a2	2130
SEQUENCE2188	johOd071b09a2	2131
SEQUENCE2189	johOd071b12a2	2132
SEQUENCE2190	johOd071d07a2	2133
SEQUENCE2191	johOd071f01a2	2134
SEQUENCE2192	johOd072b05a1	2135
SEQUENCE2193	johOd083a02a1	2136
SEQUENCE2194	johOd083b06a1	2137
SEQUENCE2195	johOd083d10a1	2138
SEQUENCE2196	johOd083e04a1	2139
SEQUENCE2198	johOd084c03a1	2140
SEQUENCE2199	johOd085b02a1	2141
SEQUENCE2200	johOd085e12a1	2142
SEQUENCE2201	johOd085f06a1	2143
SEQUENCE2202	johOd086b01a2	2144
SEQUENCE2203	johOd087c01a2	2145
SEQUENCE2204	johOd087g09a2	2146
SEQUENCE2205	johOd087h05a2	2147
SEQUENCE2206	johOd087h07a2	2148
SEQUENCE2207	johOd087h11a2	2149
SEQUENCE2208	johOd088a07a2	2150
SEQUENCE2209	johOd088h09a2	2151
SEQUENCE2210	johOd089c12a1	2152
SEQUENCE2211	johOd089f03a1	2153
SEQUENCE2212	johOd090a06a1	2154
SEQUENCE2213	johOd090b05a1	2155
SEQUENCE2214	johOd090c01a1	2156
SEQUENCE2215	johOd090c04a1	2157
SEQUENCE2216	johOd090d10a1	2158
SEQUENCE2217	johOd090f09a1	2159
SEQUENCE2218	johOd091b11a1	2160
SEQUENCE2219	johOd091e02a1	2161
SEQUENCE2220	johOd091e10a1	2162
SEQUENCE2221	johOd091g06a1	2163
SEQUENCE2222	johOd092c06a1	2164
SEQUENCE2223	johOd092c09a1	2165
SEQUENCE2224	johOd092d07a1	2166
SEQUENCE2225	johOd092f10a1	2167
SEQUENCE2226	johOd093b06a1	2168
SEQUENCE2227	johOd093b11a1	2169
SEQUENCE2228	johOd093e04a1	2170
SEQUENCE2229	johOd093f12a1	2171
SEQUENCE2230	johOd093g05a1	2172

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SEQUENCE2231	johOd094e04a1	2173
SEQUENCE2232	johOd094g08a1	2174
SEQUENCE2233	johOd094h02a1	2175
SEQUENCE2234	johOd094h03a1	2176
SEQUENCE2235	johOd095a08a1	2177
SEQUENCE2236	johOd095a10a1	2178
SEQUENCE2237	johOd095c08a1	2179
SEQUENCE2238	johOd095h08a1	2180
SEQUENCE2239	johOd096b07a1	2181
SEQUENCE2240	johOd096c08a1	2182
SEQUENCE2241	johOd096c09a1	2183
SEQUENCE2242	johOd096d02a1	2184
SEQUENCE2243	johOd096h08a1	2185
SEQUENCE2244	johOdReA002d07a1	2186
SEQUENCE2245	johOe001a12a1	2187
SEQUENCE2246	johOe001c03a1	2188
SEQUENCE2247	johOe001c07a1	2189
SEQUENCE2248	johOe001c12a1	2190
SEQUENCE2249	johOe001d04a1	2191
SEQUENCE2250	johOe001e04a1	2192
SEQUENCE2251	johOe001e05a1	2193
SEQUENCE2252	johOe001f01a1	2194
SEQUENCE2253	johOe001f11a1	2195
SEQUENCE2254	johOe001g03a1	2196
SEQUENCE2255	johOe001g06a1	2197
SEQUENCE2256	johOe001g07a1	2198
SEQUENCE2257	johOe002a01a1	2199
SEQUENCE2258	johOe002a05a1	2200
SEQUENCE2259	johOe002b01a1	2201
SEQUENCE2260	johOe002b06a1	2202
SEQUENCE2261	johOe003a05a1	2203
SEQUENCE2262	johOe003a12a1	2204
SEQUENCE2263	johOe003b07a1	2205
SEQUENCE2264	johOe003c09a1	2206
SEQUENCE2265	johOe003d09a1	2207
SEQUENCE2266	johOe003e12a1	2208
SEQUENCE2267	johOe003f08a1	2209
SEQUENCE2268	johOe003h11a1	2210
SEQUENCE2269	johOe004a12a2	2211
SEQUENCE2270	johOe004b07a2	2212
SEQUENCE2271	johOe004c01a2	2213
SEQUENCE2272	johOe004c08a2	2214
SEQUENCE2273	johOe004d02a2	2215
SEQUENCE2274	johOe004d05a2	2216
SEQUENCE2275	johOe004d10a2	2217
SEQUENCE2276	johOe004d11a2	2218
SEQUENCE2277	johOe004e02a2	2219
SEQUENCE2278	johOe004e04a2	2220
SEQUENCE2279	johOe004f10a2	2221
SEQUENCE2280	johOe004h01a2	2222
SEQUENCE2281	johOe004h12a2	2223
SEQUENCE2282	johOe005b10a2	2224
SEQUENCE2283	johOe005c01a2	2225

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SEQUENCE2284	johOe005c08a2	2226
SEQUENCE2285	johOe005d01a2	2227
SEQUENCE2286	johOe005e06a2	2228
SEQUENCE2287	johOe005f02a2	2229
SEQUENCE2288	johOe005f11a2	2230
SEQUENCE2289	johOe005g12a2	2231
SEQUENCE2290	johOe006a02a2	2232
SEQUENCE2291	johOe006a06a2	2233
SEQUENCE2292	johOe006a07a2	2234
SEQUENCE2293	johOe006c07a2	2235
SEQUENCE2294	johOe006d06a2	2236
SEQUENCE2295	johOe006e08a2	2237
SEQUENCE2296	johOe006e10a2	2238
SEQUENCE2297	johOe006f08a2	2239
SEQUENCE2298	johOe006h06a2	2240
SEQUENCE2299	johOe006h11a2	2241
SEQUENCE2300	johOe007c02a2	2242
SEQUENCE2301	johOe007g05a2	2243
SEQUENCE2302	johOe008a02a2	2244
SEQUENCE2303	johOe008a05a2	2245
SEQUENCE2304	johOe008b06a2	2246
SEQUENCE2305	johOe008d01a2	2247
SEQUENCE2306	johOe008d05a2	2248
SEQUENCE2308	johOe008g03a2	2249
SEQUENCE2309	johOe008g04a2	2250
SEQUENCE2310	johOe009a08a2	2251
SEQUENCE2311	johOe009c10a2	2252
SEQUENCE2312	johOe009e03a2	2253
SEQUENCE2313	johOe009e04a2	2254
SEQUENCE2314	johOe009e07a2	2255
SEQUENCE2315	johOe009f03a2	2256
SEQUENCE2316	johOe009g02a2	2257
SEQUENCE2317	johOe009h02a2	2258
SEQUENCE2318	johOe010a03a2	2259
SEQUENCE2319	johOe010b10a2	2260
SEQUENCE2320	johOe010d03a2	2261
SEQUENCE2321	johOe010e03a2	2262
SEQUENCE2322	johOe010e11a2	2263
SEQUENCE2323	johOe010f07a2	2264
SEQUENCE2324	johOe011a08a2	2265
SEQUENCE2325	johOe011a12a2	2266
SEQUENCE2326	johOe011b11a2	2267
SEQUENCE2327	johOe011c08a2	2268
SEQUENCE2328	johOe011d04a2	2269
SEQUENCE2329	johOe011f07a2	2270
SEQUENCE2330	johOe011g03a2	2271
SEQUENCE2331	johOe011g04a2	2272
SEQUENCE2332	johOe012a08a2	2273
SEQUENCE2333	johOe012c07a2	2274
SEQUENCE2334	johOe012f04a2	2275
SEQUENCE2335	johOe012g04a2	2276
SEQUENCE2336	johOe012h05a2	2277
SEQUENCE2337	johOe012h06a2	2278

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SEQUENCE2338	johOe014a08a1	2279
SEQUENCE2339	johOe014a10a1	2280
SEQUENCE2340	johOe014a11a1	2281
SEQUENCE2341	johOe014b06a1	2282
SEQUENCE2342	johOe014b10a1	2283
SEQUENCE2343	johOe014b12a1	2284
SEQUENCE2344	johOe014c08a1	2285
SEQUENCE2345	johOe014e04a1	2286
SEQUENCE2346	johOe014g09a1	2287
SEQUENCE2347	johOe014h07a1	2288
SEQUENCE2348	johOe014h08a1	2289
SEQUENCE2349	johOe015a08a1	2290
SEQUENCE2350	johOe015c12a1	2291
SEQUENCE2351	johOe015d08a1	2292
SEQUENCE2353	johOe015e10a1	2293
SEQUENCE2354	johOe015e11a1	2294
SEQUENCE2355	johOe015f08a1	2295
SEQUENCE2356	johOe015g02a1	2296
SEQUENCE2357	johOe016b03a1	2297
SEQUENCE2358	johOe016b07a1	2298
SEQUENCE2359	johOe016b08a1	2299
SEQUENCE2360	johOe016c03a1	2300
SEQUENCE2361	johOe016d12a1	2301
SEQUENCE2362	johOe016f03a1	2302
SEQUENCE2363	johOe016g03a1	2303
SEQUENCE2364	johOe016h02a1	2304
SEQUENCE2365	johOe016h09a1	2305
SEQUENCE2366	johOe016h12a1	2306
SEQUENCE2367	johOe017d02a1	2307
SEQUENCE2368	johOe017e03a1	2308
SEQUENCE2369	johOe017f06a1	2309
SEQUENCE2370	johOe017f08a1	2310
SEQUENCE2371	johOe017g01a1	2311
SEQUENCE2372	johOe018a02a1	2312
SEQUENCE2373	johOe018a03a1	2313
SEQUENCE2374	johOe018d01a1	2314
SEQUENCE2375	johOe018d12a1	2315
SEQUENCE2376	johOe019b08a1	2316
SEQUENCE2377	johOe019d06a1	2317
SEQUENCE2378	johOe019e05a1	2318
SEQUENCE2379	johOe022c04a1	2319
SEQUENCE2380	johOe022c07a1	2320
SEQUENCE2381	johOe022e10a1	2321
SEQUENCE2383	johOe022g11a1	2322
SEQUENCE2384	johOe024b04a1	2323
SEQUENCE2385	johOe024b05a1	2324
SEQUENCE2386	johOe024b10a1	2325
SEQUENCE2387	johOe024c10a1	2326
SEQUENCE2388	johOe024e02a1	2327
SEQUENCE2389	johOe024f07a1	2328
SEQUENCE2390	johOe024f11a1	2329
SEQUENCE2391	johOe025c11a1	2330
SEQUENCE2392	johOe025d10a1	2331

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SEQUENCE2393	johOe025g02a1	2332
SEQUENCE2394	johOe025h01a1	2333
SEQUENCE2395	johOe025h02a1	2334
SEQUENCE2396	johOe028a10a1	2335
SEQUENCE2397	johOe028b01a1	2336
SEQUENCE2398	johOe028c01a1	2337
SEQUENCE2399	johOe028c08a1	2338
SEQUENCE2400	johOe028c10a1	2339
SEQUENCE2401	johOe028c12a1	2340
SEQUENCE2402	johOe028d06a1	2341
SEQUENCE2403	johOe028d11a1	2342
SEQUENCE2404	johOe028g05a1	2343
SEQUENCE2405	johOe028g06a1	2344
SEQUENCE2406	johOe028g11a1	2345
SEQUENCE2407	johOe028h12a1	2346
SEQUENCE2408	johOe029a04a1	2347
SEQUENCE2409	johOe029b05a1	2348
SEQUENCE2410	johOe029c06a1	2349
SEQUENCE2411	johOe029c07a1	2350
SEQUENCE2412	johOe029g01a1	2351
SEQUENCE2413	johOe030a08a1	2352
SEQUENCE2414	johOe030b10a1	2353
SEQUENCE2415	johOe030c10a1	2354
SEQUENCE2416	johOe030d01a1	2355
SEQUENCE2417	johOe030d03a1	2356
SEQUENCE2418	johOe030d09a1	2357
SEQUENCE2419	johOe030f04a1	2358
SEQUENCE2420	johOe030f09a1	2359
SEQUENCE2421	johOe030g01a1	2360
SEQUENCE2422	johOe030g09a1	2361
SEQUENCE2423	johOe030h02a1	2362
SEQUENCE2424	johOe030h03a1	2363
SEQUENCE2425	johOe031a06a1	2364
SEQUENCE2426	johOe031c02a1	2365
SEQUENCE2427	johOe031c08a1	2366
SEQUENCE2428	johOe031e02a1	2367
SEQUENCE2429	johOe031e06a1	2368
SEQUENCE2430	johOe031f09a1	2369
SEQUENCE2431	johOe032b03a1	2370
SEQUENCE2432	johOe032b06a1	2371
SEQUENCE2433	johOe032b07a1	2372
SEQUENCE2434	johOe032b11a1	2373
SEQUENCE2435	johOe032c01a1	2374
SEQUENCE2436	johOe032c02a1	2375
SEQUENCE2437	johOe032c09a1	2376
SEQUENCE2438	johOe032d07a1	2377
SEQUENCE2439	johOe032f04a1	2378
SEQUENCE2440	johOe032g01a1	2379
SEQUENCE2441	johOe032g08a1	2380
SEQUENCE2442	johOe032g09a1	2381
SEQUENCE2443	johOe032h01a1	2382
SEQUENCE2444	johOe032h03a1	2383
SEQUENCE2445	johOe032h07a1	2384

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SEQUENCE2446	johOe032h12a1	2385
SEQUENCE2447	johOe033c10a1	2386
SEQUENCE2448	johOe033f10a1	2387
SEQUENCE2449	johOe033f11a1	2388
SEQUENCE2450	johOe033f12a1	2389
SEQUENCE2451	johOe034b06a1	2390
SEQUENCE2452	johOe034c04a1	2391
SEQUENCE2453	johOe034d01a1	2392
SEQUENCE2454	johOe034e07a1	2393
SEQUENCE2455	johOe034h05a1	2394
SEQUENCE2456	johOe034h09a1	2395
SEQUENCE2457	johOe035a08a1	2396
SEQUENCE2458	johOe035a10a1	2397
SEQUENCE2459	johOe035d12a1	2398
SEQUENCE2460	johOe035e09a1	2399
SEQUENCE2461	johOe035g01a1	2400
SEQUENCE2462	johOe035g04a1	2401
SEQUENCE2463	johOe035h05a1	2402
SEQUENCE2464	johOe036a07a1	2403
SEQUENCE2465	johOe036b06a1	2404
SEQUENCE2466	johOe036b08a1	2405
SEQUENCE2467	johOe036d12a1	2406
SEQUENCE2468	johOe036e01a1	2407
SEQUENCE2469	johOe036f05a1	2408
SEQUENCE2470	johOe037a07a1	2409
SEQUENCE2471	johOe037a10a1	2410
SEQUENCE2472	johOe037b05a1	2411
SEQUENCE2473	johOe037c10a1	2412
SEQUENCE2474	johOe037d03a1	2413
SEQUENCE2475	johOe037d05a1	2414
SEQUENCE2476	johOe037d09a1	2415
SEQUENCE2477	johOe037f01a1	2416
SEQUENCE2478	johOe037g07a1	2417
SEQUENCE2479	johOe037h02a1	2418
SEQUENCE2480	johOe037h04a1	2419
SEQUENCE2481	johOe038b10a1	2420
SEQUENCE2482	johOe038b11a1	2421
SEQUENCE2483	johOe038e06a1	2422
SEQUENCE2484	johOe038f01a1	2423
SEQUENCE2485	johOe038h01a1	2424
SEQUENCE2486	johOe038h11a1	2425
SEQUENCE2487	johOe038h12a1	2426
SEQUENCE2488	johOf001b05b1	2427
SEQUENCE2489	johOf001b09b1	2428
SEQUENCE2490	johOf001c12b1	2429
SEQUENCE2491	johOf001e11b1	2430
SEQUENCE2492	johOf001g05b1	2431
SEQUENCE2493	johOf002a12a1	2432
SEQUENCE2494	johOf002d09a1	2433
SEQUENCE2495	johOf002g08a1	2434
SEQUENCE2496	johOf003a06a1	2435
SEQUENCE2497	johOf003b09a1	2436
SEQUENCE2498	johOf003d10a1	2437

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SEQUENCE2499	johOf003e05a1	2438
SEQUENCE2500	johOf003e10a1	2439
SEQUENCE2501	johOf003h07a1	2440
SEQUENCE2502	johOf004b02a1	2441
SEQUENCE2503	johOf005b04a1	2442
SEQUENCE2504	johOf006a03a1	2443
SEQUENCE2505	johOf006c03a1	2444
SEQUENCE2506	johOf006d01a1	2445
SEQUENCE2507	johOf006d03a1	2446
SEQUENCE2508	johOf006h07a1	2447
SEQUENCE2509	johOf007a05a1	2448
SEQUENCE2510	johOf009a11a1	2449
SEQUENCE2511	johOf009b08a1	2450
SEQUENCE2512	johOf009c06a1	2451
SEQUENCE2513	johOf010a03a1	2452
SEQUENCE2514	johOf010a07a1	2453
SEQUENCE2515	johOf010b02a1	2454
SEQUENCE2516	johOf010b06a1	2455
SEQUENCE2517	johOf010c05a1	2456
SEQUENCE2518	johOf010c08a1	2457
SEQUENCE2519	johOf010e03a1	2458
SEQUENCE2520	johOf010e10a1	2459
SEQUENCE2521	johOf011b04a1	2460
SEQUENCE2522	johOf011c08a1	2461
SEQUENCE2523	johOf011h01a1	2462
SEQUENCE2524	johOf011h11a1	2463
SEQUENCE2525	johOf012a05a1	2464
SEQUENCE2526	johOf012c01a1	2465
SEQUENCE2527	johOf013b04a1	2466
SEQUENCE2529	johOf013c11a1	2467
SEQUENCE2530	johOf013f03a1	2468
SEQUENCE2531	johOf013f10a1	2469
SEQUENCE2532	johOf013g06a1	2470
SEQUENCE2533	johOf014b12a1	2471
SEQUENCE2534	johOf014e03a1	2472
SEQUENCE2535	johOf014f01a1	2473
SEQUENCE2536	johOf014g03a1	2474
SEQUENCE2537	johOf014g10a1	2475
SEQUENCE2538	johOf014g12a1	2476
SEQUENCE2539	johOf014h03a1	2477
SEQUENCE2540	johOf014h08a1	2478
SEQUENCE2541	johOf016a07a2	2479
SEQUENCE2542	johOf016c12a2	2480
SEQUENCE2543	johOf016f09a2	2481
SEQUENCE2544	johOf017a08a1	2482
SEQUENCE2545	johOf017c01a1	2483
SEQUENCE2546	johOf017c08a1	2484
SEQUENCE2547	johOf017d03a1	2485
SEQUENCE2548	johOf017e03a1	2486
SEQUENCE2549	johOf018a05a1	2487
SEQUENCE2550	johOf018a06a1	2488
SEQUENCE2551	johOf018b07a1	2489
SEQUENCE2552	johOf018b08a1	2490

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SEQUENCE2553	johOf018c05a1	2491
SEQUENCE2555	johOf018d04a1	2492
SEQUENCE2556	johOf018d05a1	2493
SEQUENCE2557	johOf018d07a1	2494
SEQUENCE2558	johOf018d08a1	2495
SEQUENCE2559	johOf018d10a1	2496
SEQUENCE2560	johOf018e02a1	2497
SEQUENCE2561	johOf018e05a1	2498
SEQUENCE2562	johOf018f02a1	2499
SEQUENCE2563	johOf018g03a1	2500
SEQUENCE2564	johOf018g08a1	2501
SEQUENCE2565	johOf018h01a1	2502
SEQUENCE2566	johOf018h03a1	2503
SEQUENCE2567	johOf019b05a2	2504
SEQUENCE2568	johOf019c02a2	2505
SEQUENCE2569	johOf019c05a2	2506
SEQUENCE2570	johOf019d11a2	2507
SEQUENCE2571	johOf019f06a2	2508
SEQUENCE2572	johOf019h04a2	2509
SEQUENCE2573	johOf020b09a2	2510
SEQUENCE2574	johOf020d06a2	2511
SEQUENCE2575	johOf020f07a2	2512
SEQUENCE2576	johOf021a11a2	2513
SEQUENCE2578	johOf021c05a2	2514
SEQUENCE2579	johOf021d07a2	2515
SEQUENCE2580	johOf021d08a2	2516
SEQUENCE2581	johOf021d09a2	2517
SEQUENCE2582	johOf021e09a2	2518
SEQUENCE2583	johOf021g02a2	2519
SEQUENCE2584	johOf021h08a2	2520
SEQUENCE2585	johOf021h10a2	2521
SEQUENCE2586	johOf022b01a2	2522
SEQUENCE2587	johOf022c07a2	2523
SEQUENCE2588	johOf022c11a2	2524
SEQUENCE2589	johOf022e01a2	2525
SEQUENCE2590	johOf022e03a2	2526
SEQUENCE2591	johOf022e09a2	2527
SEQUENCE2592	johOf022e10a2	2528
SEQUENCE2593	johOf022f10a2	2529
SEQUENCE2594	johOf022f12a2	2530
SEQUENCE2595	johOf023d07a2	2531
SEQUENCE2596	johOf023e12a2	2532
SEQUENCE2597	johOf023f10a2	2533
SEQUENCE2598	johOf024a04a2	2534
SEQUENCE2599	johOf024a11a2	2535
SEQUENCE2600	johOf024d09a2	2536
SEQUENCE2601	johOf024e03a2	2537
SEQUENCE2602	johOf024e06a2	2538
SEQUENCE2603	johOf024e08a2	2539
SEQUENCE2604	johOf024e11a2	2540
SEQUENCE2605	johOf024g02a2	2541
SEQUENCE2606	johOf024h11a2	2542
SEQUENCE2607	johOf024h12a2	2543

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SEQUENCE2608	johOf026a04a1	2544
SEQUENCE2609	johOf026c08a1	2545
SEQUENCE2610	johOf026d05a1	2546
SEQUENCE2611	johOf026d08a1	2547
SEQUENCE2612	johOf026e04a1	2548
SEQUENCE2613	johOf026f10a1	2549
SEQUENCE2614	johOf026g03a1	2550
SEQUENCE2615	johOf026g05a1	2551
SEQUENCE2616	johOf027a05a1	2552
SEQUENCE2617	johOf027a09a1	2553
SEQUENCE2618	johOf027b04a1	2554
SEQUENCE2619	johOf027e05a1	2555
SEQUENCE2620	johOf027e06a1	2556
SEQUENCE2621	johOf027f10a1	2557
SEQUENCE2622	johOf027g03a1	2558
SEQUENCE2623	johOf027g05a1	2559
SEQUENCE2624	johOf027h04a1	2560
SEQUENCE2625	johOf027h05a1	2561
SEQUENCE2626	johOf027h06a1	2562
SEQUENCE2627	johOf028c10a1	2563
SEQUENCE2628	johOf028f01a1	2564
SEQUENCE2629	johOf028f04a1	2565
SEQUENCE2630	johOf028g12a1	2566
SEQUENCE2631	johOf028h04a1	2567
SEQUENCE2632	johOf029b10a1	2568
SEQUENCE2633	johOf029c08a1	2569
SEQUENCE2634	johOf029d03a1	2570
SEQUENCE2635	johOf030a03a1	2571
SEQUENCE2636	johOf030b07a1	2572
SEQUENCE2637	johOf030b09a1	2573
SEQUENCE2638	johOf030c07a1	2574
SEQUENCE2639	johOf030d06a1	2575
SEQUENCE2640	johOf030d07a1	2576
SEQUENCE2641	johOf030d09a1	2577
SEQUENCE2643	johOf030e12a1	2578
SEQUENCE2644	johOf030f09a1	2579
SEQUENCE2645	johOf030f11a1	2580
SEQUENCE2646	johOf030h04a1	2581
SEQUENCE2647	johOf030h09a1	2582
SEQUENCE2648	johOf032a01a1	2583
SEQUENCE2649	johOf032a08a1	2584
SEQUENCE2650	johOf032a10a1	2585
SEQUENCE2651	johOf032a11a1	2586
SEQUENCE2652	johOf032d03a1	2587
SEQUENCE2653	johOf032f12a1	2588
SEQUENCE2654	johOf032h08a1	2589
SEQUENCE2655	johOf033a02a1	2590
SEQUENCE2656	johOf033a10a1	2591
SEQUENCE2657	johOf033c06a1	2592
SEQUENCE2658	johOf033c07a1	2593
SEQUENCE2659	johOf033d07a1	2594
SEQUENCE2660	johOf033h02a1	2595
SEQUENCE2661	johOf033h04a1	2596

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SEQUENCE2662	johOf034a02a1	2597
SEQUENCE2663	johOf034b11a1	2598
SEQUENCE2664	johOf034c02a1	2599
SEQUENCE2665	johOf034f01a1	2600
SEQUENCE2666	johOf034h01a1	2601
SEQUENCE2667	johOf035a02a1	2602
SEQUENCE2668	johOf035c04a1	2603
SEQUENCE2669	johOf035c10a1	2604
SEQUENCE2670	johOf035d03a1	2605
SEQUENCE2671	johOf035e08a1	2606
SEQUENCE2672	johOf035f05a1	2607
SEQUENCE2673	johOf035g05a1	2608
SEQUENCE2674	johOf037d04a1	2609
SEQUENCE2675	johOf038g11a1	2610
SEQUENCE2676	johOf039a02a1	2611
SEQUENCE2677	johOf039b07a1	2612
SEQUENCE2678	johOf039c10a1	2613
SEQUENCE2679	johOf039d01a1	2614
SEQUENCE2680	johOf039d04a1	2615
SEQUENCE2681	johOf039f09a1	2616
SEQUENCE2682	johOf039g05a1	2617
SEQUENCE2683	johOf039h04a1	2618
SEQUENCE2684	johOf040b10a1	2619
SEQUENCE2685	johOf040c12a1	2620
SEQUENCE2686	johOf040d11a1	2621
SEQUENCE2687	johOf040e04a1	2622
SEQUENCE2688	johOf040f06a1	2623
SEQUENCE2689	johOf040g05a1	2624
SEQUENCE2690	johOf040g09a1	2625
SEQUENCE2691	johOf041b01a1	2626
SEQUENCE2692	johOf041b03a1	2627
SEQUENCE2693	johOf041d01a1	2628
SEQUENCE2694	johOf041d02a1	2629
SEQUENCE2695	johOf041d05a1	2630
SEQUENCE2696	johOf041f01a1	2631
SEQUENCE2697	johOf041f05a1	2632
SEQUENCE2698	johOf041h01a1	2633
SEQUENCE2699	johOf042a07a1	2634
SEQUENCE2700	johOf042a09a1	2635
SEQUENCE2701	johOf042d04a1	2636
SEQUENCE2702	johOf042d05a1	2637
SEQUENCE2703	johOf042e08a1	2638
SEQUENCE2704	johOf042f10a1	2639
SEQUENCE2705	johOf042g02a1	2640
SEQUENCE2706	johOf045b05a1	2641
SEQUENCE2707	johOf045b07a1	2642
SEQUENCE2708	johOf045c05a1	2643
SEQUENCE2709	johOf045e10a1	2644
SEQUENCE2710	johOf056b10a1	2645
SEQUENCE2711	johOf056c03a1	2646
SEQUENCE2712	johOf056e01a1	2647
SEQUENCE2713	johOf056f10a1	2648
SEQUENCE2714	johOf057b03a1	2649

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SEQUENCE2715	johOf057b08a1	2650
SEQUENCE2716	johOf057c02a1	2651
SEQUENCE2717	johOf057f10a1	2652
SEQUENCE2718	johOf057h09a1	2653
SEQUENCE2719	johOf060d05a1	2654
SEQUENCE2720	johOf060e05a1	2655
SEQUENCE2721	johOf060h08a1	2656
SEQUENCE2722	johOf062d08a1	2657
SEQUENCE2723	johOf064a12a1	2658
SEQUENCE2724	johOf064c03a1	2659
SEQUENCE2725	johOf065a03a1	2660
SEQUENCE2726	johOf065e04a1	2661
SEQUENCE2727	johOf065e08a1	2662
SEQUENCE2728	johOf065f04a1	2663
SEQUENCE2729	johOf065f08a1	2664
SEQUENCE2730	johOf065g12a1	2665
SEQUENCE2731	johOf065h12a1	2666
SEQUENCE2732	johOf066b12a1	2667
SEQUENCE2733	johOf066d10a1	2668
SEQUENCE2734	johOf066h07a1	2669
SEQUENCE2735	johOf067c02a1	2670
SEQUENCE2736	johOf067c08a1	2671
SEQUENCE2737	johOf067e06a1	2672
SEQUENCE2738	johOf067e09a1	2673
SEQUENCE2739	johOf067e10a1	2674
SEQUENCE2740	johOf067e11a1	2675
SEQUENCE2741	johOf067f12a1	2676
SEQUENCE2742	johOf067g07a1	2677
SEQUENCE2743	johOf067h06a1	2678
SEQUENCE2744	johOf068c03a1	2679
SEQUENCE2745	johOf068d09a1	2680
SEQUENCE2746	johOf068e09a1	2681
SEQUENCE2747	johOf069c02a1	2682
SEQUENCE2748	johOf069e01a1	2683
SEQUENCE2749	johOf069f03a1	2684
SEQUENCE2750	johOf069f04a1	2685
SEQUENCE2751	johOf069f06a1	2686
SEQUENCE2752	johOf069g02a1	2687
SEQUENCE2753	johOf069h03a1	2688
SEQUENCE2754	johOf069h10a1	2689
SEQUENCE2755	johOf070a06a1	2690
SEQUENCE2756	johOf070e01a1	2691
SEQUENCE2757	johOf070f08a1	2692
SEQUENCE2758	johOf070g02a1	2693
SEQUENCE2759	johOf070h10a1	2694
SEQUENCE2760	johOf071c12a1	2695
SEQUENCE2762	johOf072b09a1	2696
SEQUENCE2763	johOf072c05a1	2697
SEQUENCE2764	johOf072g11a1	2698
SEQUENCE2765	johOf073f07a1	2699
SEQUENCE2766	johOf074a03a1	2700
SEQUENCE2767	johOf074a08a1	2701
SEQUENCE2768	johOf074d07a1	2702

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SEQUENCE2769	johOf074d11a1	2703
SEQUENCE2770	johOf074e02a1	2704
SEQUENCE2771	johOf074e10a1	2705
SEQUENCE2772	johOf074f01a1	2706
SEQUENCE2773	johOf074h04a1	2707
SEQUENCE2775	johOf077a08a1	2708
SEQUENCE2776	johOf077a10a1	2709
SEQUENCE2777	johOf077b01a1	2710
SEQUENCE2778	johOf077e11a1	2711
SEQUENCE2779	johOf077g02a1	2712
SEQUENCE2780	johOf077h11a1	2713
SEQUENCE2781	johOf078a11a1	2714
SEQUENCE2782	johOf078d09a1	2715
SEQUENCE2783	johOf079g07a1	2716
SEQUENCE2784	johOf080a04a1	2717
SEQUENCE2785	johOf080f04a1	2718
SEQUENCE2786	johOf080g02a1	2719
SEQUENCE2787	johOf081a10a1	2720
SEQUENCE2788	johOf081b05a1	2721
SEQUENCE2789	johOf081c03a1	2722
SEQUENCE2790	johOf081g05a1	2723
SEQUENCE2791	johOf081h08a1	2724
SEQUENCE2792	johOf082b11a1	2725
SEQUENCE2793	johOf082e05a1	2726
SEQUENCE2794	johOf082h05a1	2727
SEQUENCE2795	johOf083a11a1	2728
SEQUENCE2796	johOf083e05a1	2729
SEQUENCE2797	johOf083g10a1	2730
SEQUENCE2798	johOf084g07a1	2731
SEQUENCE2799	johOf085g01a1	2732
SEQUENCE2800	johOf085h07a1	2733
SEQUENCE2801	johOf086c01a1	2734
SEQUENCE2802	johOf086c07a1	2735
SEQUENCE2803	johOf086e05a1	2736
SEQUENCE2804	johOf086g09a1	2737
SEQUENCE2805	johOf086g12a1	2738
SEQUENCE2806	johOf087a10a1	2739
SEQUENCE2807	johOf087d10a1	2740
SEQUENCE2808	johOf087f03a1	2741
SEQUENCE2810	johOf088e07a1	2742
SEQUENCE2811	johOf088f09a1	2743
SEQUENCE2812	johOf088h02a1	2744
SEQUENCE2813	johOf089b07a1	2745
SEQUENCE2814	johOf089d01a1	2746
SEQUENCE2815	johOf089d05a1	2747
SEQUENCE2816	johOf089e03a1	2748
SEQUENCE2817	johOf089f03a1	2749
SEQUENCE2818	johOf089g01a1	2750
SEQUENCE2819	johOf089h01a1	2751
SEQUENCE2820	johOf089h03a1	2752
SEQUENCE2821	johOf090a08a1	2753
SEQUENCE2822	johOf090a12a1	2754
SEQUENCE2823	johOf090b01a1	2755

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SEQUENCE2824	johOf090d08a1	2756
SEQUENCE2825	johOf090f07a1	2757
SEQUENCE2826	johOf090f09a1	2758
SEQUENCE2827	johOf090f11a1	2759
SEQUENCE2828	johOf090f12a1	2760
SEQUENCE2829	johOf090g02a1	2761
SEQUENCE2830	johOf090g10a1	2762
SEQUENCE2831	johOf091b09a1	2763
SEQUENCE2832	johOf091b10a1	2764
SEQUENCE2833	johOf091d08a1	2765
SEQUENCE2834	johOf091d10a1	2766
SEQUENCE2835	johOf091d12a1	2767
SEQUENCE2836	johOf091g05a1	2768
SEQUENCE2837	johOf091h05a1	2769
SEQUENCE2838	johOf092a07a1	2770
SEQUENCE2839	johOf092h04a1	2771
SEQUENCE2840	johOf094e12a1	2772
SEQUENCE2841	johOf095a08a1	2773
SEQUENCE2842	johOf095d02a1	2774
SEQUENCE2843	johOf095f02a1	2775
SEQUENCE2844	johOf096c11a1	2776
SEQUENCE2845	johOf096f05a1	2777
SEQUENCE2846	johOf096h09a1	2778
SEQUENCE2847	johOf097b03a1	2779
SEQUENCE2848	johOf097e02a1	2780
SEQUENCE2849	johOf097f11a1	2781
SEQUENCE2850	johOf097g05a1	2782
SEQUENCE2851	johOf097h05a1	2783
SEQUENCE2852	johOf098a03a1	2784
SEQUENCE2853	johOf098a05a1	2785
SEQUENCE2854	johOf098c04a1	2786
SEQUENCE2855	johOf099b02a1	2787
SEQUENCE2856	johOf099b10a1	2788
SEQUENCE2857	johOf099c02a1	2789
SEQUENCE2858	johOf099d04a1	2790
SEQUENCE2859	johOf099d11a1	2791
SEQUENCE2860	johOf099e01a1	2792
SEQUENCE2861	johOf099f10a1	2793
SEQUENCE2862	johOf099g03a1	2794
SEQUENCE2863	johOf099h01a1	2795
SEQUENCE2864	johOf099h08a1	2796
SEQUENCE2865	johOfReA002c11a1	2797
SEQUENCE2866	johOfReA002d07a1	2798
SEQUENCE2867	johOfReA002h11a1	2799
SEQUENCE2868	johOfReA003d02a1	2800
SEQUENCE2869	johOfReA003f03a1	2801
SEQUENCE2871	johOfReA003g11a1	2802
SEQUENCE2872	cMhOg054g04a1	2803
SEQUENCE2873	cMhOg034b02a1	2804
SEQUENCE2874	cMhOg018d09a1	2805
SEQUENCE2875	cMhOg024h03a1	2806
SEQUENCE2876	cMhOg048g09a1	2807
SEQUENCE2877	cMhOg032c02a1	2808

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SEQUENCE2878	cMhOg022c04a1	2809
SEQUENCE2879	cMhOg011d05a1	2810
SEQUENCE2880	cMhOg020c08a1	2811
SEQUENCE2881	cMhOg002c05a2	2812
SEQUENCE2882	cMhOg041h07a1	2813
SEQUENCE2883	cMhOg046e09a2	2814
SEQUENCE2884	cMhOg006c04a1	2815
SEQUENCE2885	cMhOg002g06a2	2816
SEQUENCE2886	cMhOg019a01a1	2817
SEQUENCE2887	cMhOg032b04a1	2818
SEQUENCE2888	cMhOg045b01a1	2819
SEQUENCE2889	cMhOg021a02a1	2820
SEQUENCE2890	cMhOg048a07a1	2821
SEQUENCE2891	cMhOg051e05a1	2822
SEQUENCE2892	cMhOg002b05a2	2823
SEQUENCE2893	cMhOg033b09a1	2824
SEQUENCE2894	cMhOg024f01a1	2825
SEQUENCE2895	cMhOg040c07a1	2826
SEQUENCE2896	cMhOg045e08a1	2827
SEQUENCE2897	cMhOg024g02a1	2828
SEQUENCE2898	cMhOg033c10a1	2829
SEQUENCE2899	cMhOg033a07a1	2830
SEQUENCE2900	cMhOg024f02a1	2831
SEQUENCE2901	cMhOg024e02a1	2832
SEQUENCE2902	cMhOg038b12a1	2833
SEQUENCE2903	cMhOg022f04a1	2834
SEQUENCE2904	cMhOg040g02a1	2835
SEQUENCE2905	cMhOg001g10a2	2836
SEQUENCE2906	cMhOg043d09a1	2837
SEQUENCE2907	cMhOg038b06a1	2838
SEQUENCE2908	cMhOg018f03a1	2839
SEQUENCE2909	cMhOg043b08a1	2840
SEQUENCE2910	cMhOg048h09a1	2841
SEQUENCE2911	cMhOg032c08a1	2842
SEQUENCE2912	cMhOg011d12a1	2843
SEQUENCE2913	cMhOg022e03a1	2844
SEQUENCE2914	cMhOg008g07a1	2845
SEQUENCE2915	cMhOg020e09a1	2846
SEQUENCE2916	cMhOg003g01a2	2847
SEQUENCE2917	cMhOg046e12a2	2848
SEQUENCE2918	cMhOg051h11a1	2849
SEQUENCE2919	cMhOg006h07a1	2850
SEQUENCE2920	cMhOg003b10a2	2851
SEQUENCE2921	cMhOg048g02a1	2852
SEQUENCE2922	cMhOg051f02a1	2853
SEQUENCE2923	cMhOg024h04a1	2854
SEQUENCE2924	cMhOg021b12a1	2855
SEQUENCE2925	cMhOg001d10a2	2856
SEQUENCE2926	cMhOg024g01a1	2857
SEQUENCE2927	cMhOg041g04a1	2858
SEQUENCE2928	cMhOg046a12a2	2859
SEQUENCE2929	cMhOg039d08a1	2860
SEQUENCE2930	cMhOg031d07a1	2861

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SEQUENCE2931	cMhOg024f07a1	2862
SEQUENCE2932	cMhOg019g01a1	2863
SEQUENCE2933	cMhOg022g01a1	2864
SEQUENCE2934	cMhOg033f11a1	2865
SEQUENCE2935	cMhOg001h09a2	2866
SEQUENCE2936	cMhOg041b12a1	2867
SEQUENCE2937	cMhOg032d08a1	2868
SEQUENCE2938	cMhOg044b04a1	2869
SEQUENCE2939	cMhOg018g05a1	2870
SEQUENCE2940	cMhOg032f01a1	2871
SEQUENCE2941	cMhOg023e12a1	2872
SEQUENCE2942	cMhOg050b10a1	2873
SEQUENCE2943	cMhOg015a06a1	2874
SEQUENCE2944	cMhOg022e10a1	2875
SEQUENCE2945	cMhOg004d01a2	2876
SEQUENCE2946	cMhOg009d04a1	2877
SEQUENCE2947	cMhOg053h12a1	2878
SEQUENCE2948	cMhOg034a10a1	2879
SEQUENCE2949	cMhOg032h01a1	2880
SEQUENCE2950	cMhOg008c12a1	2881
SEQUENCE2951	cMhOg046b08a2	2882
SEQUENCE2952	cMhOg020b08a1	2883
SEQUENCE2953	cMhOg048g08a1	2884
SEQUENCE2954	cMhOg010a04a1	2885
SEQUENCE2955	cMhOg031a04a1	2886
SEQUENCE2956	cMhOg001f07a2	2887
SEQUENCE2957	cMhOg021e05a1	2888
SEQUENCE2958	cMhOg041h05a1	2889
SEQUENCE2959	cMhOg020b07a1	2890
SEQUENCE2960	cMhOg032d02a1	2891
SEQUENCE2961	cMhOg005g04a1	2892
SEQUENCE2962	cMhOg046h08a2	2893
SEQUENCE2963	cMhOg032a09a1	2894
SEQUENCE2964	cMhOg044h03a1	2895
SEQUENCE2965	cMhOg019g10a1	2896
SEQUENCE2966	cMhOg022h03a1	2897
SEQUENCE2967	cMhOg051b08a1	2898
SEQUENCE2968	cMhOg002b02a2	2899
SEQUENCE2969	cMhOg046f05a2	2900
SEQUENCE2970	cMhOg033f12a1	2901
SEQUENCE2971	cMhOg005f05a1	2902
SEQUENCE2972	cMhOg050h05a1	2903
SEQUENCE2973	cMhOg023h08a1	2904
SEQUENCE2974	cMhOg022f01a1	2905
SEQUENCE2975	cMhOg005d01a1	2906
SEQUENCE2976	cMhOg010a03a1	2907
SEQUENCE2977	cMhOh011b12a1	2908
SEQUENCE2978	cMhOh017g04a1	2909
SEQUENCE2979	cMhOh072a08a3	2910
SEQUENCE2980	cMhOh084d12a1	2911
SEQUENCE2981	cMhOh121b07a2	2912
SEQUENCE2982	cMhOh122g07a2	2913
SEQUENCE2983	cMhOh014e07a2	2914

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SEQUENCE2984	cMhOh011b09a1	2915
SEQUENCE2985	cMhOh013d10a1	2916
SEQUENCE2986	cMhOh118b12a2	2917
SEQUENCE2987	cMhOh011b05a1	2918
SEQUENCE2988	cMhOh100c01a2	2919
SEQUENCE2989	cMhOh129a07a2	2920
SEQUENCE2990	cMhOh013f09a1	2921
SEQUENCE2991	cMhOh098c03a2	2922
SEQUENCE2992	cMhOh011h04a2	2923
SEQUENCE2993	cMhOh128g06a2	2924
SEQUENCE2994	cMhOh104f01a2	2925
SEQUENCE2995	cMhOh013f06a2	2926
SEQUENCE2996	cMhOh093g12a2	2927
SEQUENCE2997	cMhOh126g09a2	2928
SEQUENCE2998	cMhOh011h02a2	2929
SEQUENCE2999	cMhOh128e11a2	2930
SEQUENCE3000	cMhOh019d09a1	2931
SEQUENCE3002	cMhOh013f05a2	2932
SEQUENCE3003	cMhOh013c05a2	2933
SEQUENCE3004	cMhOh073c08a3	2934
SEQUENCE3005	cMhOh011g07a2	2935
SEQUENCE3006	cMhOh092f08a2	2936
SEQUENCE3007	cMhOh013b12a2	2937
SEQUENCE3008	cMhOh013e12a2	2938
SEQUENCE3009	cMhOh073a01a3	2939
SEQUENCE3010	cMhOh011f10a2	2940
SEQUENCE3011	cMhOh060f01a1	2941
SEQUENCE3012	cMhOh014h02a1	2942
SEQUENCE3013	cMhOh013e06a2	2943
SEQUENCE3014	cMhOh013b11a2	2944
SEQUENCE3015	cMhOh011f09a2	2945
SEQUENCE3016	cMhOh014g12a1	2946
SEQUENCE3017	cMhOh002a08a1	2947
SEQUENCE3018	cMhOh044e01a2	2948
SEQUENCE3019	cMhOh023h08a2	2949
SEQUENCE3020	cMhOh042h12a2	2950
SEQUENCE3021	cMhOh131b05a3	2951
SEQUENCE3022	cMhOh091f03a2	2952
SEQUENCE3023	cMhOh086a08a2	2953
SEQUENCE3024	cMhOh025g11a1	2954
SEQUENCE3025	cMhOh015h02a2	2955
SEQUENCE3026	cMhOh041e01a1	2956
SEQUENCE3027	cMhOh120g06a2	2957
SEQUENCE3028	cMhOh015e02a2	2958
SEQUENCE3029	cMhOh013c09a1	2959
SEQUENCE3030	cMhOh120e09a2	2960
SEQUENCE3031	cMhOh053d11a1	2961
SEQUENCE3032	cMhOh014c11a1	2962
SEQUENCE3033	cMhOh013g11a2	2963
SEQUENCE3034	cMhOh011d06a2	2964
SEQUENCE3035	cMhOh052f06a2	2965
SEQUENCE3036	cMhOh048g10a1	2966
SEQUENCE3037	cMhOh013g09a2	2967

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SEQUENCE3038	cMhOh011d03a2	2968
SEQUENCE3039	cMhOh048e10a1	2969
SEQUENCE3040	cMhOh013g08a1	2970
SEQUENCE3041	cMhOh102b07a2	2971
SEQUENCE3042	cMhOh012a08a2	2972
SEQUENCE3043	cMhOh087b09a2	2973
SEQUENCE3044	cMhOh014d02a2	2974
SEQUENCE3045	cMhOh013g05a2	2975
SEQUENCE3046	cMhOh031b05a2	2976
SEQUENCE3047	cMhOh077f03a1	2977
SEQUENCE3048	cMhOh011h11a2	2978
SEQUENCE3049	cMhOh069a03a1	2979
SEQUENCE3050	cMhOh086g03a2	2980
SEQUENCE3051	cMhOh090h06a2	2981
SEQUENCE3052	cMhOh013f10a2	2982
SEQUENCE3053	cMhOh100c05a2	2983
SEQUENCE3054	cMhOh086c02a2	2984
SEQUENCE3055	cMhOh065d06a1	2985
SEQUENCE3056	cMhOh009h12a1	2986
SEQUENCE3057	cMhOh069g04a1	2987
SEQUENCE3058	cMhOh013c07a1	2988
SEQUENCE3059	cMhOh009b09a1	2989
SEQUENCE3060	cMhOh004h02a1	2990
SEQUENCE3061	cMhOh030c05a1	2991
SEQUENCE3062	cMhOh123h12a2	2992
SEQUENCE3063	cMhOh089f11a2	2993
SEQUENCE3064	cMhOh123d08a2	2994
SEQUENCE3065	cMhOh025b01a1	2995
SEQUENCE3066	cMhOh089f01a2	2996
SEQUENCE3067	cMhOh117a05a3	2997
SEQUENCE3068	cMhOh022a03a2	2998
SEQUENCE3069	cMhOh014b05a2	2999
SEQUENCE3070	cMhOh088b10a2	3000
SEQUENCE3071	cMhOh115g08a2	3001
SEQUENCE3073	cMhOh014a03a1	3002
SEQUENCE3074	cMhOh011f04a2	3003
SEQUENCE3075	cMhOh115c09a2	3004
SEQUENCE3076	cMhOh014c04a2	3005
SEQUENCE3077	cMhOh110h07a2	3006
SEQUENCE3079	cMhOh011f01a1	3007
SEQUENCE3080	cMhOh120c07a2	3008
SEQUENCE3081	cMhOh115b01a2	3009
SEQUENCE3082	cMhOh014c03a2	3010
SEQUENCE3083	cMhOh013h06a1	3011
SEQUENCE3084	cMhOh011e12a1	3012
SEQUENCE3085	cMhOh114h06a2	3013
SEQUENCE3086	cMhOh013h04a1	3014
SEQUENCE3087	cMhOh011d12a2	3015
SEQUENCE3088	cMhOh082g09a3	3016
SEQUENCE3089	cMhOh124c11a1	3017
SEQUENCE3090	cMhOh011d09a2	3018
SEQUENCE3091	cMhOh082c02a3	3019
SEQUENCE3092	cMhOh076g12a1	3020

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SEQUENCE3093	cMhOh124f03a2	3021
SEQUENCE3094	cMhOh017f08a1	3022
SEQUENCE3095	cMhOh082b05a3	3023
SEQUENCE3096	cMhOh074e02a2	3024
SEQUENCE3097	cMhOh072a08a1	3025
SEQUENCE3098	cMhOh017b11a1	3026
SEQUENCE3099	cMhOh078d09a1	3027
SEQUENCE3100	cMhOh073e09a3	3028
SEQUENCE3101	cMhOh069a10a1	3029
SEQUENCE3102	cMhOh012f05a2	3030
SEQUENCE3103	cMhOh014d03a1	3031
SEQUENCE3104	cMhOh002b08a1	3032
SEQUENCE3105	cMhOh026a08a1	3033
SEQUENCE3106	cMhOh012e05a2	3034
SEQUENCE3107	cMhOh014f06a1	3035
SEQUENCE3108	cMhOh069a04a1	3036
SEQUENCE3109	cMhOh030a07a1	3037
SEQUENCE3110	cMhOh072f12a1	3038
SEQUENCE3111	cMhOh041b03a1	3039
SEQUENCE3112	cMhOh110d02a2	3040
SEQUENCE3113	cMhOh012b09a2	3041
SEQUENCE3114	cMhOh014f04a1	3042
SEQUENCE3115	cMhOh040b01a1	3043
SEQUENCE3116	cMhOh094c11a3	3044
SEQUENCE3117	cMhOh014f02a1	3045
SEQUENCE3118	cMhOh012b01a2	3046
SEQUENCE3119	cMhOh014e01a2	3047
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SEQUENCE3124	cMhOh083a02a3	3051
SEQUENCE3125	cMhOh011a06a2	3052
SEQUENCE3126	cMhOh060a02a1	3053
SEQUENCE3127	cMhOh117b08a3	3054
SEQUENCE3128	cMhOh014b08a2	3055
SEQUENCE3129	cMhOh056d11a1	3056
SEQUENCE3130	cMhOh107e02a2	3057
SEQUENCE3131	cMhOh113f04a2	3058
SEQUENCE3132	cMhOh126d11a2	3059
SEQUENCE3133	cMhOh021f05a1	3060
SEQUENCE3134	cMhOh023h07a2	3061
SEQUENCE3135	cMhOh106c08a2	3062
SEQUENCE3136	cMhOh113a10a2	3063
SEQUENCE3137	cMhOh126b03a2	3064
SEQUENCE3138	cMhOh029a11a1	3065
SEQUENCE3139	cMhOh020d12a1	3066
SEQUENCE3140	cMhOh022d11a2	3067
SEQUENCE3141	cMhOh083e01a3	3068
SEQUENCE3142	cMhOh090b02a2	3069
SEQUENCE3143	cMhOh095d04a2	3070
SEQUENCE3144	cMhOh084f05a1	3071
SEQUENCE3145	cMhOh094h11a3	3072
SEQUENCE3146	cMhOh019h04a2	3073

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SEQUENCE3147	cMhOh105g03a2	3074
SEQUENCE3148	cMhOh094a01a3	3075
SEQUENCE3149	cMhOh119h03a2	3076
SEQUENCE3150	cMhOh013d10a2	3077
SEQUENCE3151	cMhOh125d10a2	3078
SEQUENCE3152	cMhOh013a04a2	3079
SEQUENCE3153	cMhOh019g01a1	3080
SEQUENCE3154	cMhOh011f07a2	3081
SEQUENCE3155	cMhOh094d10a3	3082
SEQUENCE3156	cMhOh014g07a2	3083
SEQUENCE3157	cMhOh077d08a1	3084
SEQUENCE3158	cMhOh014h12a2	3085
SEQUENCE3159	cMhOh012g10a2	3086
SEQUENCE3160	cMhOh014g06a1	3087
SEQUENCE3161	cMhOh109f01a2	3088
SEQUENCE3162	cMhOh012g04a2	3089
SEQUENCE3163	cMhOh014g02a2	3090
SEQUENCE3164	cMhOh011d02a1	3091
SEQUENCE3165	cMhOh108b12a2	3092
SEQUENCE3166	cMhOh014f07a2	3093
SEQUENCE3167	cMhOh036e03a1	3094
SEQUENCE3168	cMhOh011c06a2	3095
SEQUENCE3169	cMhOh017h12a1	3096
SEQUENCE3170	cMhOh092b09a2	3097
SEQUENCE3171	cMhOh108a10a2	3098
SEQUENCE3172	cMhOh128a10a2	3099
SEQUENCE3173	cMhOh014f06a2	3100
SEQUENCE3174	cMhOh014e12a1	3101
SEQUENCE3175,SEQUENCE3294	cMhOh011b12a2	3102
SEQUENCE3176	cMhOh017g06a1	3103
SEQUENCE3177	cMhOh121c12a2	3104
SEQUENCE3178	cMhOh122h01a2	3105
SEQUENCE3179	cMhOh083b01a3	3106
SEQUENCE3180	cMhOh014e10a1	3107
SEQUENCE3181	cMhOh011b09a2	3108
SEQUENCE3182	cMhOh017f12a1	3109
SEQUENCE3183	cMhOh121a08a2	3110
SEQUENCE3184	cMhOh122d04a2	3111
SEQUENCE3185	cMhOh119d11a2	3112
SEQUENCE3186	cMhOh011b05a2	3113
SEQUENCE3187	cMhOh129e05a2	3114
SEQUENCE3188	cMhOh098g03a2	3115
SEQUENCE3189	cMhOh131g04a3	3116
SEQUENCE3190	cMhOh011h07a2	3117
SEQUENCE3191	cMhOh128g10a2	3118
SEQUENCE3192	cMhOh105d03a2	3119
SEQUENCE3193	cMhOh013f08a1	3120
SEQUENCE3194	cMhOh095f11a2	3121
SEQUENCE3195	cMhOh011h03a2	3122
SEQUENCE3196	cMhOh128f11a2	3123
SEQUENCE3197	cMhOh034e06a1	3124
SEQUENCE3198	cMhOh013f06a1	3125
SEQUENCE3199	cMhOh073e04a3	3126

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SEQUENCE3200	cMhOh092h06a2	3127
SEQUENCE3201	cMhOh011h02a1	3128
SEQUENCE3202	cMhOh102e09a2	3129
SEQUENCE3203	cMhOh013c05a1	3130
SEQUENCE3204	cMhOh126g04a2	3131
SEQUENCE3205	cMhOh013f05a1	3132
SEQUENCE3206	cMhOh073c06a3	3133
SEQUENCE3207	cMhOh011g01a2	3134
SEQUENCE3208	cMhOh064a07a1	3135
SEQUENCE3209	cMhOh014h02a2	3136
SEQUENCE3210	cMhOh013e12a1	3137
SEQUENCE3211	cMhOh011f10a1	3138
SEQUENCE3212	cMhOh060d08a1	3139
SEQUENCE3213	cMhOh014h01a1	3140
SEQUENCE3214	cMhOh013d12a1	3141
SEQUENCE3215	cMhOh013b11a1	3142
SEQUENCE3216	cMhOh044h11a2	3143
SEQUENCE3217	cMhOh024a01a1	3144
SEQUENCE3218	cMhOh044c03a2	3145
SEQUENCE3219	cMhOh091g01a2	3146
SEQUENCE3220	cMhOh016g06a1	3147
SEQUENCE3221	cMhOh042c04a2	3148
SEQUENCE3222	cMhOh129h12a2	3149
SEQUENCE3223	cMhOh091c07a2	3150
SEQUENCE3224	cMhOh015f10a2	3151
SEQUENCE3225	cMhOh013c12a2	3152
SEQUENCE3226	cMhOh120f05a2	3153
SEQUENCE3227	cMhOh008g06a2	3154
SEQUENCE3228	cMhOh015d04a1	3155
SEQUENCE3229	cMhOh069h09a1	3156
SEQUENCE3230	cMhOh053f02a1	3157
SEQUENCE3231	cMhOh014d02a1	3158
SEQUENCE3232	cMhOh013h01a1	3159
SEQUENCE3233	cMhOh052f08a2	3160
SEQUENCE3234	cMhOh014c07a1	3161
SEQUENCE3235	cMhOh011d06a1	3162
SEQUENCE3236	cMhOh052d12a2	3163
SEQUENCE3237	cMhOh013g11a1	3164
SEQUENCE3238	cMhOh110a01a2	3165
SEQUENCE3239	cMhOh048g01a1	3166
SEQUENCE3240	cMhOh013g09a1	3167
SEQUENCE3241	cMhOh011d02a2	3168
SEQUENCE3242	cMhOh012a10a2	3169
SEQUENCE3243	cMhOh087f06a2	3170
SEQUENCE3244	cMhOh036h03a1	3171
SEQUENCE3245	cMhOh122a08a2	3172
SEQUENCE3246	cMhOh045f05a2	3173
SEQUENCE3247	cMhOh031f04a2	3174
SEQUENCE3248	cMhOh013g06a1	3175
SEQUENCE3249	cMhOh012a06a2	3176
SEQUENCE3250	cMhOh078a04a1	3177
SEQUENCE3251	cMhOh087a04a2	3178
SEQUENCE3252	cMhOh100g05a2	3179

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SEQUENCE3253	cMhOh013g05a1	3180
SEQUENCE3254	cMhOh011h11a1	3181
SEQUENCE3255	cMhOh068d07a1	3182
SEQUENCE3256	cMhOh011a02a1	3183
SEQUENCE3257	cMhOh086d08a2	3184
SEQUENCE3258	cMhOh064f01a1	3185
SEQUENCE3259	cMhOh013c07a2	3186
SEQUENCE3260	cMhOh009d04a1	3187
SEQUENCE3261	cMhOh004h05a1	3188
SEQUENCE3262	cMhOh069e04a1	3189
SEQUENCE3263	cMhOh030e07a1	3190
SEQUENCE3264	cMhOh002f08a1	3191
SEQUENCE3265	cMhOh124d10a2	3192
SEQUENCE3266	cMhOh030c04a1	3193
SEQUENCE3267	cMhOh123h10a2	3194
SEQUENCE3268	cMhOh025d09a1	3195
SEQUENCE3269	cMhOh089f02a2	3196
SEQUENCE3270	cMhOh022c06a2	3197
SEQUENCE3271	cMhOh024d08a1	3198
SEQUENCE3272	cMhOh088c01a2	3199
SEQUENCE3273	cMhOh116e01a2	3200
SEQUENCE3275	cMhOh120e06a2	3201
SEQUENCE3276	cMhOh014a03a2	3202
SEQUENCE3277	cMhOh011f05a2	3203
SEQUENCE3278	cMhOh087h08a2	3204
SEQUENCE3279	cMhOh115g04a2	3205
SEQUENCE3280	cMhOh120c11a2	3206
SEQUENCE3281	cMhOh017a07a1	3207
SEQUENCE3282,SEQUENCE3376	cMhOh013h08a2	3208
SEQUENCE3283	cMhOh011f01a2	3209
SEQUENCE3284	cMhOh115c05a2	3210
SEQUENCE3285	cMhOh014c04a1	3211
SEQUENCE3286	cMhOh110g04a2	3212
SEQUENCE3287	cMhOh011e12a2	3213
SEQUENCE3288	cMhOh013h06a2	3214
SEQUENCE3289	cMhOh120c06a2	3215
SEQUENCE3291	cMhOh009a12a1	3216
SEQUENCE3292	cMhOh013h04a2	3217
SEQUENCE3293	cMhOh011e08a2	3218
SEQUENCE3295	cMhOh011d12a1	3219
SEQUENCE3296	cMhOh082g04a3	3220
SEQUENCE3297	cMhOh030h12a1	3221
SEQUENCE3298	cMhOh082b10a3	3222
SEQUENCE3299	cMhOh075b11a2	3223
SEQUENCE3301	cMhOh081e11a1	3224
SEQUENCE3302	cMhOh074d02a2	3225
SEQUENCE3303	cMhOh012f07a2	3226
SEQUENCE3304	cMhOh014d03a2	3227
SEQUENCE3305	cMhOh078b06a1	3228
SEQUENCE3306	cMhOh069a09a1	3229
SEQUENCE3307	cMhOh012e10a2	3230
SEQUENCE3308	cMhOh041c03a1	3231
SEQUENCE3309	cMhOh025h12a1	3232

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SEQUENCE3310	cMhOh012c03a2	3233
SEQUENCE3311	cMhOh014f04a2	3234
SEQUENCE3312	cMhOh029a12a1	3235
SEQUENCE3313	cMhOh090e04a2	3236
SEQUENCE3314	cMhOh040c08a1	3237
SEQUENCE3315	cMhOh012b05a2	3238
SEQUENCE3316	cMhOh014f02a2	3239
SEQUENCE3317	cMhOh014e07a1	3240
SEQUENCE3318,SEQUENCE3369+C3786	cMhOh011c05a2	3241
SEQUENCE3319	cMhOh012a12a2	3242
SEQUENCE3320	cMhOh011b03a2	3243
SEQUENCE3321	cMhOh124b07a2	3244
SEQUENCE3322	cMhOh124e02a2	3245
SEQUENCE3323	cMhOh014e12a2	3246
SEQUENCE3324	cMhOh011a09a1	3247
SEQUENCE3325	cMhOh073a01a1	3248
SEQUENCE3326	cMhOh117g10a3	3249
SEQUENCE3327	cMhOh011a02a2	3250
SEQUENCE3328	cMhOh017b10a1	3251
SEQUENCE3329	cMhOh014b11a1	3252
SEQUENCE3330	cMhOh059h07a2	3253
SEQUENCE3331	cMhOh073e08a3	3254
SEQUENCE3332	cMhOh113f05a2	3255
SEQUENCE3333	cMhOh001d10a2	3256
SEQUENCE3334	cMhOh011f06a2	3257
SEQUENCE3335	cMhOh008d02a2	3258
SEQUENCE3336	cMhOh106e03a2	3259
SEQUENCE3337	cMhOh113b10a2	3260
SEQUENCE3338	cMhOh126b09a2	3261
SEQUENCE3339	cMhOh021a12a1	3262
SEQUENCE3340	cMhOh022f07a2	3263
SEQUENCE3341	cMhOh084b10a1	3264
SEQUENCE3342	cMhOh106a08a2	3265
SEQUENCE3343	cMhOh125g08a2	3266
SEQUENCE3344	cMhOh095d03a2	3267
SEQUENCE3345	cMhOh019h10a2	3268
SEQUENCE3346	cMhOh083c10a3	3269
SEQUENCE3347	cMhOh094c01a3	3270
SEQUENCE3348	cMhOh105f11a2	3271
SEQUENCE3349	cMhOh094g06a3	3272
SEQUENCE3350	cMhOh019g01a2	3273
SEQUENCE3351	cMhOh011f09a1	3274
SEQUENCE3352	cMhOh119f08a2	3275
SEQUENCE3353	cMhOh014g08a1	3276
SEQUENCE3354	cMhOh015c06a1	3277
SEQUENCE3355	cMhOh014g06a2	3278
SEQUENCE3356	cMhOh014h06a2	3279
SEQUENCE3357	cMhOh012g08a2	3280
SEQUENCE3358	cMhOh014g05a1	3281
SEQUENCE3359	cMhOh108c11a2	3282
SEQUENCE3360	cMhOh012g02a2	3283
SEQUENCE3361	cMhOh014f09a2	3284
SEQUENCE3362	cMhOh011c09a2	3285

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SEQUENCE3363	cMhOh017h12a2	3286
SEQUENCE3364	cMhOh054d04a1	3287
SEQUENCE3365	cMhOh092d10a2	3288
SEQUENCE3366	cMhOh108a11a2	3289
SEQUENCE3367	cMhOh014f07a1	3290
SEQUENCE3368	cMhOh035c03a1	3291
SEQUENCE3370	cMhOh017g06a2	3292
SEQUENCE3371	cMhOh091g07a2	3293
SEQUENCE3372	cMhOh041c05a1	3294
SEQUENCE3373	cMhOh122a01a2	3295
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SEQUENCE3375	cMhOh128c07a2	3297
SEQUENCE3377	cMhOi022d03a2	3298
SEQUENCE3378	cMhOi055d08a1	3299
SEQUENCE3379	cMhOi081b10a1	3300
SEQUENCE3380	cMhOi047c06a3	3301
SEQUENCE3381	cMhOi005e03a1	3302
SEQUENCE3383	cMhOi031b04a1	3303
SEQUENCE3384	cMhOi055h07a1	3304
SEQUENCE3385	cMhOi023a12a2	3305
SEQUENCE3386	cMhOi074a11a1	3306
SEQUENCE3387	cMhOi015c09a1	3307
SEQUENCE3388	cMhOi043h11a3	3308
SEQUENCE3389	cMhOi055h08a1	3309
SEQUENCE3390	cMhOi009d06a1	3310
SEQUENCE3391	cMhOi013f08a1	3311
SEQUENCE3392	cMhOi007f01a1	3312
SEQUENCE3393	cMhOi032d09a1	3313
SEQUENCE3394	cMhOi026d09a1	3314
SEQUENCE3395	cMhOi029f02a1	3315
SEQUENCE3396	cMhOi010f07a1	3316
SEQUENCE3397	cMhOi078a03a1	3317
SEQUENCE3398	cMhOi073c04a1	3318
SEQUENCE3399	cMhOi039c09a2	3319
SEQUENCE3400	cMhOi068d04a1	3320
SEQUENCE3401	cMhOi012b06a1	3321
SEQUENCE3402	cMhOi014g05a1	3322
SEQUENCE3403	cMhOi055d03a1	3323
SEQUENCE3404	cMhOi075a09a2	3324
SEQUENCE3405	cMhOi003d09a1	3325
SEQUENCE3406	cMhOi010g02a1	3326
SEQUENCE3407	cMhOi017c11a1	3327
SEQUENCE3408	cMhOi028c12a1	3328
SEQUENCE3409	cMhOi057d01a1	3329
SEQUENCE3410	cMhOi070b03a1	3330
SEQUENCE3411	cMhOi036d11a2	3331
SEQUENCE3412	cMhOi022e09a2	3332
SEQUENCE3413	cMhOi019f03a1	3333
SEQUENCE3414	cMhOi024a10a2	3334
SEQUENCE3415	cMhOi047c07a3	3335
SEQUENCE3416	cMhOi043c09a3	3336
SEQUENCE3417	cMhOi005e08a1	3337
SEQUENCE3418	cMhOi022f01a2	3338

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SEQUENCE3419	cMhOi028b01a1	3339
SEQUENCE3420	cMhOi034b11a1	3340
SEQUENCE3421	cMhOi023b12a2	3341
SEQUENCE3422	cMhOi045a08a1	3342
SEQUENCE3423	cMhOi074b02a1	3343
SEQUENCE3424	cMhOi079a08a1	3344
SEQUENCE3425	cMhOi044a04a1	3345
SEQUENCE3426	cMhOi010e02a1	3346
SEQUENCE3427	cMhOi004h01a1	3347
SEQUENCE3428	cMhOi008c10a1	3348
SEQUENCE3429	cMhOi026g08a1	3349
SEQUENCE3430	cMhOi029f05a1	3350
SEQUENCE3431	cMhOi078d04a1	3351
SEQUENCE3432	cMhOi022h04a2	3352
SEQUENCE3433	cMhOi073e04a1	3353
SEQUENCE3434	cMhOi041c10a2	3354
SEQUENCE3435	cMhOi015a05a1	3355
SEQUENCE3436	cMhOi012f09a1	3356
SEQUENCE3437	cMhOi009b09a1	3357
SEQUENCE3438	cMhOi003g08a1	3358
SEQUENCE3439	cMhOi011a02a1	3359
SEQUENCE3440	cMhOi028e07a1	3360
SEQUENCE3442	cMhOi060f03a2	3361
SEQUENCE3443	cMhOi041f10a2	3362
SEQUENCE3444	cMhOi070e03a1	3363
SEQUENCE3445	cMhOi036f09a2	3364
SEQUENCE3446	cMhOi077e01a1	3365
SEQUENCE3447	cMhOi014e03a1	3366
SEQUENCE3448	cMhOi001f10a1	3367
SEQUENCE3449	cMhOi024h07a2	3368
SEQUENCE3450	cMhOi021a01a1	3369
SEQUENCE3451	cMhOi002a05a1	3370
SEQUENCE3452	cMhOi005f05a1	3371
SEQUENCE3453	cMhOi049c05a1	3372
SEQUENCE3455	cMhOi022g10a2	3373
SEQUENCE3456	cMhOi034h12a1	3374
SEQUENCE3457	cMhOi014a03a1	3375
SEQUENCE3458	cMhOi022a03a2	3376
SEQUENCE3459	cMhOi079d02a1	3377
SEQUENCE3460	cMhOi013f03a1	3378
SEQUENCE3461	cMhOi044d12a1	3379
SEQUENCE3462	cMhOi007e09a1	3380
SEQUENCE3463	cMhOi045f12a1	3381
SEQUENCE3464	cMhOi005d01a1	3382
SEQUENCE3465	cMhOi008f03a1	3383
SEQUENCE3466	cMhOi027c01a1	3384
SEQUENCE3467	cMhOi031a08a1	3385
SEQUENCE3468	cMhOi023a05a2	3386
SEQUENCE3469	cMhOi073h06a1	3387
SEQUENCE3470	cMhOi041d03a2	3388
SEQUENCE3471	cMhOi015b04a1	3389
SEQUENCE3472	cMhOi012h07a1	3390
SEQUENCE3473	cMhOi009d04a1	3391

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SEQUENCE3474	cMhOi001c12a1	3392
SEQUENCE3475	cMhOi031c12a1	3393
SEQUENCE3476	cMhOi026d05a1	3394
SEQUENCE3477	cMhOi029c12a1	3395
SEQUENCE3478	cMhOi077h08a1	3396
SEQUENCE3479	cMhOi041g05a2	3397
SEQUENCE3480	cMhOi070e06a1	3398
SEQUENCE3481	cMhOi038b04a2	3399
SEQUENCE3482	cMhOi055h12a1	3400
SEQUENCE3483	cMhOi067c09a1	3401
SEQUENCE3484	cMhOi021d07a1	3402
SEQUENCE3485	cMhOi014f01a1	3403
SEQUENCE3486	cMhOi026b01a1	3404
SEQUENCE3487	cMhOi051g11a2	3405
SEQUENCE3488	cMhOi002b09a1	3406
SEQUENCE3489	cMhOi007d04a1	3407
SEQUENCE3490	cMhOi074h08a1	3408
SEQUENCE3491	cMhOi010f12a1	3409
SEQUENCE3493	cMhOi035a01a1	3410
SEQUENCE3494	cMhOi056d05a1	3411
SEQUENCE3495	cMhOi068d09a1	3412
SEQUENCE3496	cMhOj058c10a1	3413
SEQUENCE3497	cMhOj056g09a1	3414
SEQUENCE3498	cMhOj102e04a1	3415
SEQUENCE3499	cMhOj048g10a1	3416
SEQUENCE3500	cMhOj108h12a1	3417
SEQUENCE3501	cMhOj050h05a1	3418
SEQUENCE3502	cMhOj090h05a1	3419
SEQUENCE3503	cMhOj099f07a1	3420
SEQUENCE3504	cMhOj072h05a1	3421
SEQUENCE3505	cMhOj003g09a2	3422
SEQUENCE3506	cMhOj074b06a1	3423
SEQUENCE3507	cMhOj017f02a1	3424
SEQUENCE3508	cMhOj061h09a1	3425
SEQUENCE3509	cMhOj043a10a1	3426
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SEQUENCE3513	cMhOj102g03a1	3430
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SEQUENCE3518	cMhOj056h01a1	3435
SEQUENCE3519	cMhOj010g10a1	3436
SEQUENCE3520	cMhOj048h10a1	3437
SEQUENCE3521	cMhOj058f12a1	3438
SEQUENCE3522	cMhOj088a10a1	3439
SEQUENCE3523	cMhOj088h08a1	3440
SEQUENCE3524	cMhOj091a09a1	3441
SEQUENCE3525	cMhOj099g01a1	3442
SEQUENCE3526	cMhOj007b09a2	3443
SEQUENCE3527	cMhOj109c08a1	3444

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SEQUENCE3528	cMhOj003a07a2	3445
SEQUENCE3529	cMhOj112h09a1	3446
SEQUENCE3530	cMhOj017f03a1	3447
SEQUENCE3531	cMhOj062f04a1	3448
SEQUENCE3532	cMhOj043a11a1	3449
SEQUENCE3533	cMhOj018h06a1	3450
SEQUENCE3534	cMhOj107f12a1	3451
SEQUENCE3535	cMhOj081c07a1	3452
SEQUENCE3536	cMhOj078f09a1	3453
SEQUENCE3538	cMhOj059a06a1	3454
SEQUENCE3539	cMhOj060c09a1	3455
SEQUENCE3540	cMhOj057a03a1	3456
SEQUENCE3541	cMhOj016e11a1	3457
SEQUENCE3542	cMhOj036e03a1	3458
SEQUENCE3543	cMhOj040a12a1	3459
SEQUENCE3544	cMhOj088b10a1	3460
SEQUENCE3545	cMhOj089d03a1	3461
SEQUENCE3546	cMhOj098b04a1	3462
SEQUENCE3547	cMhOj109g11a1	3463
SEQUENCE3548	cMhOj113b02a1	3464
SEQUENCE3549	cMhOj003c04a2	3465
SEQUENCE3550	cMhOj069b01a1	3466
SEQUENCE3551	cMhOj017g04a1	3467
SEQUENCE3552	cMhOj062g08a1	3468
SEQUENCE3553	cMhOj104h01a1	3469
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SEQUENCE3559	cMhOj057e07a1	3475
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SEQUENCE3561	cMhOj098c01a1	3477
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SEQUENCE3563	cMhOj113b06a1	3479
SEQUENCE3564	cMhOj037h08a1	3480
SEQUENCE3565	cMhOj060f01a1	3481
SEQUENCE3566	cMhOj104h05a1	3482
SEQUENCE3567	cMhOj007c11a2	3483
SEQUENCE3568	cMhOj084b03a1	3484
SEQUENCE3569	cMhOj108a07a1	3485
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SEQUENCE3571	cMhOj095a06a1	3487
SEQUENCE3572	cMhOj058b08a1	3488
SEQUENCE3573	cMhOj090a10a1	3489
SEQUENCE3574	cMhOj079b09a1	3490
SEQUENCE3575	cMhOj038e12a1	3491
SEQUENCE3576	cMhOj047a03a1	3492
SEQUENCE3577	cMhOj061a12a1	3493
SEQUENCE3578	cMhOj063c12a1	3494
SEQUENCE3579	cMhOj074b09a1	3495
SEQUENCE3580	cMhOj007e12a2	3496
SEQUENCE3581	cMhOj105c09a1	3497

Table 3

SEQUENCE3582	cMhOj084e12a1	3498
SEQUENCE3583	cMhOj108d08a1	3499
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SEQUENCE3585	cMhOj048g01a1	3501
SEQUENCE3586	cMhOj090b02a1	3502
SEQUENCE3587	cMhOj049a10a1	3503
SEQUENCE3588	cMhOj003c12a2	3504
SEQUENCE3589	cMhOj038h02a1	3505
SEQUENCE3590	cMhOj035c06a1	3506
SEQUENCE3591	cMhOj073e07a1	3507
SEQUENCE3592	cMhOj063f02a1	3508
SEQUENCE3593	cMhOj081d07a1	3509
SEQUENCE3594	cMhOj007f03a2	3510
SEQUENCE3595	cMhOj105g05a1	3511
SEQUENCE3596	cMhOj047e01a1	3512
SEQUENCE3597	cMhOj086b03a1	3513
SEQUENCE3598	cMhOj108g03a1	3514
SEQUENCE3599	cMhOj045c12a1	3515
SEQUENCE3600	cMhOj048g09a1	3516
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SEQUENCE3602	cMhOj100h11a1	3518
SEQUENCE3603	cMhOj035c12a1	3519
SEQUENCE3604	cMhOj039a05a1	3520
SEQUENCE3605	cMhOj064b08a1	3521
SEQUENCE3606	cMhOj034b11a1	3522
SEQUENCE3607	cMhOj009c10a1	3523
SEQUENCE3608	cMhOj047b08a1	3524
SEQUENCE3609	cMhOj047e12a1	3525
SEQUENCE3610	cMhOj080h02a1	3526
SEQUENCE3611	cMhOj081f11a1	3527
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SEQUENCE3613	cMhOj086e05a1	3529
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SEQUENCE3616	cMhOj070c02a1	3532
SEQUENCE3617	cMhOj036d09a1	3533
SEQUENCE3618	cMhOj074g01a1	3534
SEQUENCE3619	cMhOj017a01a1	3535
SEQUENCE3620	cMhOj092f12a1	3536
SEQUENCE3621	cMhOj083b01a1	3537
SEQUENCE3622	cMhOj010a11a1	3538
SEQUENCE3623	cMhOj081a08a1	3539
SEQUENCE3624	cMhOj048a02a1	3540
SEQUENCE3625	cMhOj086e11a1	3541
SEQUENCE3626	cMhOj107e08a1	3542
SEQUENCE3627	cMhOj060c03a1	3543
SEQUENCE3628	cMhOj095f06a1	3544
SEQUENCE3629	cMhOj034e04a1	3545
SEQUENCE3630	cMhOj070c08a1	3546
SEQUENCE3631	cMhOj079e02a1	3547
SEQUENCE3632	cMhOj065f05a1	3548
SEQUENCE3633	cMhOj074h05a1	3549
SEQUENCE3634	cMhOj093c04a1	3550

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SEQUENCE3635	cMhOj091e06a1	3551
SEQUENCE3636	cMhOj083g08a1	3552
SEQUENCE3637	cMhOj052a03a1	3553
SEQUENCE3638	cMhOj048a07a1	3554
SEQUENCE3639	cMhOj045f05a1	3555
SEQUENCE3640	cMhOj086f11a1	3556
SEQUENCE3641	cMhOj064d12a1	3557
SEQUENCE3642	cMhOj095g08a1	3558
SEQUENCE3643	cMhOj034f01a1	3559
SEQUENCE3644	cMhOj078h12a1	3560
SEQUENCE3645	cMhOj070e03a1	3561
SEQUENCE3646	cMhOj059b10a1	3562
SEQUENCE3647	cMhOj049d08a1	3563
SEQUENCE3648	cMhOj037b06a1	3564
SEQUENCE3649	cMhOj067e03a1	3565
SEQUENCE3651	cMhOj079g04a1	3566
SEQUENCE3652	cMhOj091e12a1	3567
SEQUENCE3653	cMhOj093g05a1	3568
SEQUENCE3654	cMhOj104g07a1	3569
SEQUENCE3655	cMhOj083h01a1	3570
SEQUENCE3656	cMhOj053a09a1	3571
SEQUENCE3657	cMhOj048a11a1	3572
SEQUENCE3658	cMhOj076a02a1	3573
SEQUENCE3659	cMhOj087a02a1	3574
SEQUENCE3660	cMhOj054d09a1	3575
SEQUENCE3661	cMhOj064g08a1	3576
SEQUENCE3662	cMhOj034h03a1	3577
SEQUENCE3663	cMhOj022d03a1	3578
SEQUENCE3664	cMhOj096c08a1	3579
SEQUENCE3665	cMhOj073d06a1	3580
SEQUENCE3666	cMhOj079a12a1	3581
SEQUENCE3667	cMhOj070f06a1	3582
SEQUENCE3668	cMhOj099g08a1	3583
SEQUENCE3669	cMhOj112c12a1	3584
SEQUENCE3670	cMhOj079h06a1	3585
SEQUENCE3671	cMhOj067h10a1	3586
SEQUENCE3672	cMhOj091h12a1	3587
SEQUENCE3673	cMhOj069b10a1	3588
SEQUENCE3674	cMhOj017g10a1	3589
SEQUENCE3675	cMhOj101d08a1	3590
SEQUENCE3676	cMhOj048d09a1	3591
SEQUENCE3677	cMhOj076d11a1	3592
SEQUENCE3678	cMhOj087b05a1	3593
SEQUENCE3679	cMhOj099h11a1	3594
SEQUENCE3680	cMhOj065b11a1	3595
SEQUENCE3681	cMhOj054f08a1	3596
SEQUENCE3682	cMhOj035a03a1	3597
SEQUENCE3683	cMhOj096e03a1	3598
SEQUENCE3684	cMhOj098c10a1	3599
SEQUENCE3685	cMhOj062g09a1	3600
SEQUENCE3686	cMhOj071b08a1	3601
SEQUENCE3687	cMhOj088g02a1	3602
SEQUENCE3688	cMhOj112d12a1	3603

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SEQUENCE3689	cMhOj080a03a1	3604
SEQUENCE3690	cMhOj068b06a1	3605
SEQUENCE3691	cMhOj059d06a1	3606
SEQUENCE3693	cMhOj017h04a1	3607
SEQUENCE3694	cMhOj069h07a1	3608
SEQUENCE3695	cMhOj048f03a1	3609
SEQUENCE3696	cMhOj092e11a1	3610
SEQUENCE3697	cMhOj077a01a1	3611
SEQUENCE3698	cMhOj087e09a1	3612
SEQUENCE3699	cMhOj100a01a1	3613
SEQUENCE3700	cMhOj101e08a1	3614
SEQUENCE3701	cMhOj054h04a1	3615
SEQUENCE3703	cMhOj035b09a1	3616
SEQUENCE3704	cMhOj049e11a1	3617
SEQUENCE3705	cMhOj098c11a1	3618
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SEQUENCE3707	cMhOj071b09a1	3620
SEQUENCE3708	cMhOj022g12a1	3621
SEQUENCE3709	cMhOj112f09a1	3622
SEQUENCE3710	cMhOj080b12a1	3623
SEQUENCE3711	cMhOj068f05a1	3624
SEQUENCE3712	cMhOj059d10a1	3625
SEQUENCE3713	cMhOj042e04a1	3626
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SEQUENCE3716	cMhOj070a12a1	3629
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SEQUENCE3719	cMhOj087h03a1	3632
SEQUENCE3720	cMhOj100g01a1	3633
SEQUENCE3721	cMhOj102b03a1	3634
SEQUENCE3722	cMhOj056c04a1	3635
SEQUENCE3723	cMhOj108g09a1	3636
SEQUENCE3724	cMhOj050c10a1	3637
SEQUENCE3725	cMhOj090e11a1	3638
SEQUENCE3726	cMhOj098f10a1	3639
SEQUENCE3727	cMhOj072d10a1	3640
SEQUENCE3728	cMhOj003d06a2	3641
SEQUENCE3729	cMhOj023h04a1	3642
SEQUENCE3730	cMhOj080g05a1	3643
SEQUENCE3731	cMhOj016h11a1	3644
SEQUENCE3732	cMhOj074a03a1	3645
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SEQUENCE3734	cMhOj061g05a1	3647
SEQUENCE3735	cMhOj043a02a1	3648
SEQUENCE3736	cMhOj018c09a1	3649
SEQUENCE3737	cMhOj059e10a1	3650
SEQUENCE3738	cMhOj095c05a1	3651
SEQUENCE3739	cMhOj065c11a1	3652
SEQUENCE3740	cMhOj077h09a1	3653
SEQUENCE3741	cMhOj053e06a1	3654
SEQUENCE3742	cMhOj064d02a1	3655
SEQUENCE3743	cMhOk070e07a2	3656

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SEQUENCE3744	cMhOk073d01a1	3657
SEQUENCE3745	cMhOk067f12a1	3658
SEQUENCE3746	cMhOk065e08a1	3659
SEQUENCE3747	cMhOk083c03a1	3660
SEQUENCE3748	cMhOk039g11a1	3661
SEQUENCE3749	cMhOk098f07a1	3662
SEQUENCE3750	cMhOk032g09a2	3663
SEQUENCE3751	cMhOk102h05a1	3664
SEQUENCE3752	cMhOk051e09a2	3665
SEQUENCE3753	cMhOk092c01a1	3666
SEQUENCE3754	cMhOk014h11a1	3667
SEQUENCE3755	cMhOk099e08a1	3668
SEQUENCE3756	cMhOk095c09a1	3669
SEQUENCE3757	cMhOk003f05a3	3670
SEQUENCE3758	cMhOk069g02a2	3671
SEQUENCE3759	cMhOk046e05a2	3672
SEQUENCE3760	cMhOk005e04a2	3673
SEQUENCE3761	cMhOk070e06a2	3674
SEQUENCE3762	cMhOk068c07a3	3675
SEQUENCE3763	cMhOk087h09a1	3676
SEQUENCE3764	cMhOk011g10a1	3677
SEQUENCE3765	cMhOk086e02a1	3678
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SEQUENCE3767	cMhOk040a07a1	3680
SEQUENCE3768	cMhOk037c01a2	3681
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SEQUENCE3770	cMhOk093g11a1	3683
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SEQUENCE3772	cMhOk108c11a2	3685
SEQUENCE3773	cMhOk092f07a1	3686
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SEQUENCE3776	cMhOk068b04a3	3689
SEQUENCE3778	cMhOk095h06a1	3690
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SEQUENCE3781	cMhOk047e04a2	3693
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SEQUENCE3783	cMhOk068h09a3	3695
SEQUENCE3784	cMhOk014c11a1	3696
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SEQUENCE3787	cMhOk087f03a1	3698
SEQUENCE3788	cMhOk014d11a1	3699
SEQUENCE3789	cMhOk060a07a3	3700
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SEQUENCE3791	cMhOk037d09a2	3702
SEQUENCE3792	cMhOk042b02a2	3703
SEQUENCE3793	cMhOk095b06a1	3704
SEQUENCE3794	cMhOk102a01a1	3705
SEQUENCE3795	cMhOk080a11a1	3706
SEQUENCE3796	cMhOk038d01a2	3707
SEQUENCE3797	cMhOk096h04a1	3708
SEQUENCE3798	cMhOk032c01a2	3709

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SEQUENCE3799	cMhOk091c06a1	3710
SEQUENCE3800	cMhOk048h03a2	3711
SEQUENCE3801	cMhOk088h10a1	3712
SEQUENCE3802	cMhOk099d05a1	3713
SEQUENCE3803	cMhOk095c02a1	3714
SEQUENCE3804	cMhOk002g08a2	3715
SEQUENCE3805	cMhOk069b03a2	3716
SEQUENCE3806	cMhOk046c08a2	3717
SEQUENCE3807	cMhOk060g05a3	3718
SEQUENCE3808	cMhOk078e11a1	3719
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SEQUENCE3810	cMhOk087f04a1	3721
SEQUENCE3811	cMhOk079a06a1	3722
SEQUENCE3812	cMhOk011a04a1	3723
SEQUENCE3813	cMhOk084g03a1	3724
SEQUENCE3814	cMhOk051f07a2	3725
SEQUENCE3815	cMhOk012e10a1	3726
SEQUENCE3816	cMhOk036a10a2	3727
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SEQUENCE3818	cMhOg022a09a1	3729
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SEQUENCE3820	cMhOg034f08a1	3731
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SEQUENCE3837	cMhOg054e04a1	3748
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SEQUENCE3842	cMhOg039d12a1	3753
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SEQUENCE3845	cMhOg052a07a1	3756
SEQUENCE3846	cMhOg052g03a1	3757
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SEQUENCE3848	cMhOg021f05a1	3759
SEQUENCE3849	cMhOg024f04a1	3760
SEQUENCE3850	cMhOg043b09a1	3761
SEQUENCE3851	cMhOg006b08a1	3762

Table 3

SEQUENCE3852	cMhOg034d09a1	3763
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SEQUENCE3855	cMhOg011f10a1	3766
SEQUENCE3856	cMhOg041d01a1	3767
SEQUENCE3857	cMhOg032h10a1	3768
SEQUENCE3858	cMhOg019c09a1	3769
SEQUENCE3859	cMhOg050a06a1	3770
SEQUENCE3860	cMhOg046f10a2	3771
SEQUENCE3861	cMhOg008d01a1	3772
SEQUENCE3862	cMhOg051g08a1	3773
SEQUENCE3863	cMhOg020h10a1	3774
SEQUENCE3864	cMhOg045g05a1	3775
SEQUENCE3865	cMhOg015e01a1	3776
SEQUENCE3866	cMhOg020b05a1	3777
SEQUENCE3867	cMhOg001e11a2	3778
SEQUENCE3868	cMhOg022f09a1	3779
SEQUENCE3869	cMhOg050g07a1	3780
SEQUENCE3870	cMhOg009e03a1	3781
SEQUENCE3871	cMhOg020f09a1	3782
SEQUENCE3872	cMhOg023a08a1	3783
SEQUENCE3874	cMhOg051b04a1	3784
SEQUENCE3875	cMhOg052h07a1	3785
SEQUENCE3876	cMhOg009c05a1	3786
SEQUENCE3877	cMhOg038e09a1	3787
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SEQUENCE3879	cMhOg021g04a1	3789
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SEQUENCE3889	cMhOg021d03a1	3799
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SEQUENCE3891	cMhOg018b04a1	3801
SEQUENCE3892	cMhOg008f04a1	3802
SEQUENCE3893	cMhOg003c08a2	3803
SEQUENCE3894	cMhOg054a01a1	3804
SEQUENCE3895	cMhOg010c12a1	3805
SEQUENCE3896	cMhOg051b09a1	3806
SEQUENCE3897	cMhOg008c04a1	3807
SEQUENCE3898	cMhOg053f11a1	3808
SEQUENCE3899	cMhOh129a11a2	3809
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SEQUENCE3901	cMhOh126b04a2	3811
SEQUENCE3902	cMhOh014g09a1	3812
SEQUENCE3903	cMhOh029b10a1	3813
SEQUENCE3904	cMhOh039h06a1	3814
SEQUENCE3905	cMhOh001c07a2	3815

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SEQUENCE3906	cMhOh090e03a2	3816
SEQUENCE3907	cMhOh129a12a2	3817
SEQUENCE3908	cMhOh106g01a2	3818
SEQUENCE3909	cMhOh126b08a2	3819
SEQUENCE3910	cMhOh073b10a3	3820
SEQUENCE3911	cMhOh011h05a2	3821
SEQUENCE3912	cMhOh039h09a1	3822
SEQUENCE3913	cMhOh122e08a2	3823
SEQUENCE3914	cMhOh091h03a2	3824
SEQUENCE3915	cMhOh116f03a2	3825
SEQUENCE3916	cMhOh106g10a2	3826
SEQUENCE3917	cMhOh068a06a1	3827
SEQUENCE3918	cMhOh105g09a2	3828
SEQUENCE3919	cMhOh126c12a2	3829
SEQUENCE3920	cMhOh019d12a1	3830
SEQUENCE3921	cMhOh073e03a1	3831
SEQUENCE3922	cMhOh052f02a2	3832
SEQUENCE3923	cMhOh110e01a2	3833
SEQUENCE3924	cMhOh040d06a1	3834
SEQUENCE3925	cMhOh123b03a2	3835
SEQUENCE3926	cMhOh092d02a2	3836
SEQUENCE3927	cMhOh001b07a2	3837
SEQUENCE3928	cMhOh108a04a2	3838
SEQUENCE3929	cMhOh034g06a1	3839
SEQUENCE3930	cMhOh106d08a2	3840
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SEQUENCE3932	cMhOh076d07a1	3842
SEQUENCE3933	cMhOh013g04a1	3843
SEQUENCE3934	cMhOh052h03a2	3844
SEQUENCE3935	cMhOh073e03a3	3845
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SEQUENCE3942	cMhOh035d03a1	3852
SEQUENCE3943	cMhOh106d12a2	3853
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SEQUENCE3949	cMhOh088c07a2	3859
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SEQUENCE3953	cMhOh014c03a1	3863
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SEQUENCE3958	cMhOh069f03a1	3868

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SEQUENCE3959	cMhOh079e08a1	3869
SEQUENCE3960	cMhOh119h02a2	3870
SEQUENCE3961	cMhOh074c02a2	3871
SEQUENCE3962	cMhOh125e10a2	3872
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SEQUENCE3966	cMhOh125b10a2	3876
SEQUENCE3967	cMhOh083e04a3	3877
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SEQUENCE3969	cMhOh121e08a2	3879
SEQUENCE3970	cMhOh035g05a1	3880
SEQUENCE3971	cMhOh069f11a1	3881
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SEQUENCE3973	cMhOh011g01a1	3883
SEQUENCE3974	cMhOh074h03a2	3884
SEQUENCE3975	cMhOh092e07a2	3885
SEQUENCE3976	cMhOh120a07a2	3886
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SEQUENCE3979	cMhOh123h05a2	3889
SEQUENCE3980	cMhOh053e11a1	3890
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SEQUENCE3985	cMhOh113h08a2	3895
SEQUENCE3986	cMhOh036b05a1	3896
SEQUENCE3987	cMhOh014h06a1	3897
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SEQUENCE3990	cMhOh075e01a2	3900
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SEQUENCE4001	cMhOh122b11a2	3911
SEQUENCE4002	cMhOh015d06a1	3912
SEQUENCE4003	cMhOh120b07a2	3913
SEQUENCE4004	cMhOh003h11a1	3914
SEQUENCE4005	cMhOh029h08a1	3915
SEQUENCE4006	cMhOh100c06a2	3916
SEQUENCE4007	cMhOh093b11a2	3917
SEQUENCE4008	cMhOh055b03a1	3918
SEQUENCE4009	cMhOh013f02a1	3919
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SEQUENCE4011	cMhOh034e03a1	3921

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SEQUENCE4012	cMhOh057f03a1	3922
SEQUENCE4013	cMhOh038b03a1	3923
SEQUENCE4014	cMhOh080d04a1	3924
SEQUENCE4015	cMhOh008e03a2	3925
SEQUENCE4016	cMhOh018a09a1	3926
SEQUENCE4017	cMhOh117c12a3	3927
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SEQUENCE4019	cMhOh120f09a2	3929
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SEQUENCE4022	cMhOh030e06a1	3932
SEQUENCE4023	cMhOh100e06a2	3933
SEQUENCE4024	cMhOh093f06a2	3934
SEQUENCE4025	cMhOh114b01a2	3935
SEQUENCE4026	cMhOh086e04a2	3936
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SEQUENCE4035	cMhOh044e12a2	3945
SEQUENCE4036	cMhOh082h07a3	3946
SEQUENCE4037	cMhOh005g04a1	3947
SEQUENCE4038	cMhOh030f04a1	3948
SEQUENCE4039	cMhOh104c02a2	3949
SEQUENCE4040	cMhOh011h10a1	3950
SEQUENCE4041	cMhOh094d02a3	3951
SEQUENCE4042	cMhOh019e01a2	3952
SEQUENCE4043	cMhOh039c08a1	3953
SEQUENCE4044	cMhOh119c02a2	3954
SEQUENCE4045	cMhOh015g06a2	3955
SEQUENCE4046	cMhOh131a12a3	3956
SEQUENCE4047	cMhOh045b01a2	3957
SEQUENCE4048	cMhOh031a09a2	3958
SEQUENCE4049	cMhOh104g04a2	3959
SEQUENCE4050	cMhOh012e11a2	3960
SEQUENCE4051	cMhOh128b10a2	3961
SEQUENCE4052	cMhOh113a07a2	3962
SEQUENCE4053	cMhOh011a07a1	3963
SEQUENCE4054	cMhOh021a02a1	3964
SEQUENCE4055	cMhOh131d08a3	3965
SEQUENCE4056	cMhOh048c01a1	3966
SEQUENCE4057	cMhOh109g09a2	3967
SEQUENCE4058	cMhOh031d10a2	3968
SEQUENCE4059	cMhOh104h10a2	3969
SEQUENCE4060	cMhOh013a04a1	3970
SEQUENCE4061	cMhOh128c01a2	3971
SEQUENCE4063	cMhOh113c01a2	3972
SEQUENCE4064	cMhOh011e07a1	3973
SEQUENCE4065	cMhOh025a03a1	3974

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SEQUENCE4066	cMhOh008b11a2	3975
SEQUENCE4067	cMhOh131g07a3	3976
SEQUENCE4068	cMhOh052e09a2	3977
SEQUENCE4069	cMhOh110d06a2	3978
SEQUENCE4070	cMhOh016c07a1	3979
SEQUENCE4071	cMhOh033c04a1	3980
SEQUENCE4072	cMhOh105e09a2	3981
SEQUENCE4073	cMhOi045e08a1	3982
SEQUENCE4074	cMhOi034h11a1	3983
SEQUENCE4075	cMhOi074b09a1	3984
SEQUENCE4076	cMhOi071g03a1	3985
SEQUENCE4077	cMhOi068h07a1	3986
SEQUENCE4079	cMhOi046h12a1	3987
SEQUENCE4080	cMhOi017c04a1	3988
SEQUENCE4081	cMhOi041e01a2	3989
SEQUENCE4082	cMhOi031b01a1	3990
SEQUENCE4083	cMhOi038b10a2	3991
SEQUENCE4084	cMhOi004e05a1	3992
SEQUENCE4085	cMhOi028b07a1	3993
SEQUENCE4086	cMhOi071c06a1	3994
SEQUENCE4087	cMhOi072a09a1	3995
SEQUENCE4088	cMhOi009g11a1	3996
SEQUENCE4089	cMhOi013c06a1	3997
SEQUENCE4090	cMhOi055g03a1	3998
SEQUENCE4091	cMhOi028g09a1	3999
SEQUENCE4092	cMhOi027e11a1	4000
SEQUENCE4093	cMhOi045h11a1	4001
SEQUENCE4094	cMhOi010e12a1	4002
SEQUENCE4095	cMhOi027e07a1	4003
SEQUENCE4096	cMhOi046g07a1	4004
SEQUENCE4097	cMhOi035e07a1	4005
SEQUENCE4098	cMhOi077d05a1	4006
SEQUENCE4099	cMhOi007d06a1	4007
SEQUENCE4100	cMhOi069f01a1	4008
SEQUENCE4101	cMhOi023h02a2	4009
SEQUENCE4102	cMhOi047d01a3	4010
SEQUENCE4103	cMhOi019h05a1	4011
SEQUENCE4104	cMhOi042h11a1	4012
SEQUENCE4105	cMhOi031g04a1	4013
SEQUENCE4106	cMhOi039c03a2	4014
SEQUENCE4107	cMhOi028g03a1	4015
SEQUENCE4108	cMhOi071d02a1	4016
SEQUENCE4109	cMhOi072b01a1	4017
SEQUENCE4110	cMhOi079g09a1	4018
SEQUENCE4111	cMhOi010e08a1	4019
SEQUENCE4112	cMhOi021g09a1	4020
SEQUENCE4113	cMhOi013g12a1	4021
SEQUENCE4114	cMhOi056f04a1	4022
SEQUENCE4115	cMhOi040d08a2	4023
SEQUENCE4116	cMhOi029c03a1	4024
SEQUENCE4117	cMhOi071b09a1	4025
SEQUENCE4118	cMhOi027f11a1	4026
SEQUENCE4119	cMhOi002d02a1	4027

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SEQUENCE4120	cMhOi009a02a1	4028
SEQUENCE4121	cMhOi001h10a1	4029
SEQUENCE4122	cMhOi037b05a1	4030
SEQUENCE4123	cMhOi077g05a1	4031
SEQUENCE4124	cMhOi007e07a1	4032
SEQUENCE4125	cMhOi070e10a1	4033
SEQUENCE4126	cMhOi012d05a1	4034
SEQUENCE4127	cMhOi024e08a2	4035
SEQUENCE4128	cMhOi047d07a3	4036
SEQUENCE4129	cMhOi021b05a1	4037
SEQUENCE4130	cMhOi060a10a2	4038
SEQUENCE4131	cMhOi045c07a1	4039
SEQUENCE4132	cMhOi031h10a1	4040
SEQUENCE4133	cMhOi040b02a2	4041
SEQUENCE4134	cMhOi072f11a1	4042
SEQUENCE4135	cMhOi071e05a1	4043
SEQUENCE4136	cMhOi068c04a1	4044
SEQUENCE4137	cMhOi022c02a2	4045
SEQUENCE4138	cMhOi014g07a1	4046
SEQUENCE4139	cMhOi056f06a1	4047
SEQUENCE4140	cMhOi041a07a2	4048
SEQUENCE4141	cMhOi030b10a1	4049
SEQUENCE4142	cMhOi037h08a1	4050
SEQUENCE4143	cMhOi028a05a1	4051
SEQUENCE4144	cMhOi002e12a1	4052
SEQUENCE4145	cMhOi071c01a1	4053
SEQUENCE4146	cMhOi072a03a1	4054
SEQUENCE4147	cMhOi009f05a1	4055
SEQUENCE4148	cMhOi081e04a1	4056
SEQUENCE4149	cMhOi055f06a1	4057
SEQUENCE4150	cMhOi002b08a1	4058
SEQUENCE4151	cMhOi004g01a1	4059
SEQUENCE4152	cMhOi037f01a1	4060
SEQUENCE4153	cMhOi078d12a1	4061
SEQUENCE4154	cMhOi045g04a1	4062
SEQUENCE4155	cMhOi070h12a1	4063
SEQUENCE4156	cMhOi012g12a1	4064
SEQUENCE4157	cMhOi025f06a2	4065
SEQUENCE4158	cMhOi054a06a1	4066
SEQUENCE4159	cMhOj092a07a1	4067
SEQUENCE4160	cMhOj057h05a1	4068
SEQUENCE4161	cMhOj061g09a1	4069
SEQUENCE4162	cMhOj088a05a1	4070
SEQUENCE4163	cMhOj090a04a1	4071
SEQUENCE4164	cMhOj073a06a1	4072
SEQUENCE4165	cMhOj037d10a1	4073
SEQUENCE4166	cMhOj083g12a1	4074
SEQUENCE4167	cMhOj078g12a1	4075
SEQUENCE4168	cMhOj067b06a1	4076
SEQUENCE4169	cMhOj022g08a1	4077
SEQUENCE4170	cMhOj108b05a1	4078
SEQUENCE4171	cMhOj048d03a1	4079
SEQUENCE4172	cMhOj068e01a1	4080

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SEQUENCE4173	cMhOj058c02a1	4081
SEQUENCE4174	cMhOj112c02a1	4082
SEQUENCE4175	cMhOj094g06a1	4083
SEQUENCE4176	cMhOj061h01a1	4084
SEQUENCE4177	cMhOj088a12a1	4085
SEQUENCE4178	cMhOj049g05a1	4086
SEQUENCE4179	cMhOj090a11a1	4087
SEQUENCE4180	cMhOj073a09a1	4088
SEQUENCE4181	cMhOj037e05a1	4089
SEQUENCE4182	cMhOj056d12a1	4090
SEQUENCE4183	cMhOj084b06a1	4091
SEQUENCE4184	cMhOj079b10a1	4092
SEQUENCE4185	cMhOj067c06a1	4093
SEQUENCE4186	cMhOj081f10a1	4094
SEQUENCE4187	cMhOj068e07a1	4095
SEQUENCE4188	cMhOj048e11a1	4096
SEQUENCE4189	cMhOj076c06a1	4097
SEQUENCE4190	cMhOj007b03a2	4098
SEQUENCE4191	cMhOj058h03a1	4099
SEQUENCE4192	cMhOj113c01a1	4100
SEQUENCE4193	cMhOj095b09a1	4101
SEQUENCE4194	cMhOj088b12a1	4102
SEQUENCE4195	cMhOj093g10a1	4103
SEQUENCE4196	cMhOj108g04a1	4104
SEQUENCE4197	cMhOj090f03a1	4105
SEQUENCE4198	cMhOj073c04a1	4106
SEQUENCE4199	cMhOj038e03a1	4107
SEQUENCE4200	cMhOj072c10a1	4108
SEQUENCE4201	cMhOj075b08a1	4109
SEQUENCE4202	cMhOj056e02a1	4110
SEQUENCE4203	cMhOj084c07a1	4111
SEQUENCE4204	cMhOj082a02a1	4112
SEQUENCE4205	cMhOj067c11a1	4113
SEQUENCE4206	cMhOj069b02a1	4114
SEQUENCE4207	cMhOj070h02a1	4115
SEQUENCE4208	cMhOj013h01a1	4116
SEQUENCE4209	cMhOj113c07a1	4117
SEQUENCE4210	cMhOj095e04a1	4118
SEQUENCE4211	cMhOj088h04a1	4119
SEQUENCE4212	cMhOj093h07a1	4120
SEQUENCE4213	cMhOj109a11a1	4121
SEQUENCE4214	cMhOj090g02a1	4122
SEQUENCE4215	cMhOj073f06a1	4123
SEQUENCE4216	cMhOj038f05a1	4124
SEQUENCE4217	cMhOj072c11a1	4125
SEQUENCE4218	cMhOj076a05a1	4126
SEQUENCE4219	cMhOj056e08a1	4127
SEQUENCE4220	cMhOj084d06a1	4128
SEQUENCE4221	cMhOj083a08a1	4129
SEQUENCE4222	cMhOj086e03a1	4130
SEQUENCE4223	cMhOj069c05a1	4131
SEQUENCE4224	cMhOj071c12a1	4132
SEQUENCE4225	cMhOj099h04a1	4133

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SEQUENCE4226	cMhOj016a12a1	4134
SEQUENCE4227	cMhOj023e09a1	4135
SEQUENCE4228	cMhOj113c10a1	4136
SEQUENCE4229	cMhOj109f04a1	4137
SEQUENCE4230	cMhOj089b04a1	4138
SEQUENCE4231	cMhOj003c02a2	4139
SEQUENCE4232	cMhOj062a03a1	4140
SEQUENCE4233	cMhOj073f12a1	4141
SEQUENCE4234	cMhOj038g03a1	4142
SEQUENCE4235	cMhOj056f12a1	4143
SEQUENCE4236	cMhOj084h02a1	4144
SEQUENCE4237	cMhOj056b04a1	4145
SEQUENCE4238	cMhOj087b10a1	4146
SEQUENCE4239	cMhOj038h11a1	4147
SEQUENCE4240	cMhOj071e01a1	4148
SEQUENCE4242	cMhOj098f07a1	4149
SEQUENCE4243	cMhOj017c11a1	4150
SEQUENCE4244	cMhOj023f05a1	4151
SEQUENCE4245	cMhOj100c08a1	4152
SEQUENCE4246	cMhOj113d01a1	4153
SEQUENCE4247	cMhOj003c07a2	4154
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SEQUENCE4250	cMhOj052c12a1	4156
SEQUENCE4251	cMhOj085b03a1	4157
SEQUENCE4252	cMhOj087f08a1	4158
SEQUENCE4253	cMhOj039a06a1	4159
SEQUENCE4254	cMhOj069d08a1	4160
SEQUENCE4255	cMhOj071e12a1	4161
SEQUENCE4256	cMhOj099c08a1	4162
SEQUENCE4257	cMhOj017d04a1	4163
SEQUENCE4258	cMhOj023f11a1	4164
SEQUENCE4259	cMhOj094a05a1	4165
SEQUENCE4260	cMhOj101a11a1	4166
SEQUENCE4261	cMhOj070e07a1	4167
SEQUENCE4262	cMhOj063b05a1	4168
SEQUENCE4263	cMhOj072d04a1	4169
SEQUENCE4264	cMhOj111h09a1	4170
SEQUENCE4265	cMhOj074e01a1	4171
SEQUENCE4266	cMhOj052e03a1	4172
SEQUENCE4267	cMhOj083e09a1	4173
SEQUENCE4268	cMhOj085b08a1	4174
SEQUENCE4269	cMhOj042h08a1	4175
SEQUENCE4270	cMhOj088a01a1	4176
SEQUENCE4271	cMhOj039b06a1	4177
SEQUENCE4272	cMhOj072b07a1	4178
SEQUENCE4273	cMhOj099d06a1	4179
SEQUENCE4274	cMhOj101b04a1	4180
SEQUENCE4275	cMhOj018a02a1	4181
SEQUENCE4276	cMhOj035b05a1	4182
SEQUENCE4277	cMhOj094d10a1	4183
SEQUENCE4278	cMhOj102g02a1	4184
SEQUENCE4279	cMhOj096a04a1	4185
SEQUENCE4280	cMhOj070e08a1	4186

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SEQUENCE4281	cMhOj076e10a1	4187
SEQUENCE4282	cMhOj063d05a1	4188
SEQUENCE4283	cMhOj081a01a1	4189
SEQUENCE4284	cMhOj074f12a1	4190
SEQUENCE4285	cMhOj052g10a1	4191
SEQUENCE4286	cMhOj056c01a1	4192
SEQUENCE4287	cMhOj085b11a1	4193
SEQUENCE4288	cMhOj043a03a1	4194
SEQUENCE4289	cMhOj105e05a1	4195
SEQUENCE4290	cMhOj039g02a1	4196
SEQUENCE4291	cMhOj046b05a1	4197
SEQUENCE4292	cMhOj099e08a1	4198
SEQUENCE4293	cMhOj102a02a1	4199
SEQUENCE4294	cMhOj018b11a1	4200
SEQUENCE4295	cMhOj035g06a1	4201
SEQUENCE4296	cMhOj102g06a1	4202
SEQUENCE4297	cMhOj096d06a1	4203
SEQUENCE4298	cMhOj070g04a1	4204
SEQUENCE4299	cMhOj076f07a1	4205
SEQUENCE4300	cMhOj063e06a1	4206
SEQUENCE4301	cMhOj081c02a1	4207
SEQUENCE4302	cMhOj061h07a1	4208
SEQUENCE4303	cMhOj075b02a1	4209
SEQUENCE4304	cMhOj053b04a1	4210
SEQUENCE4305	cMhOj085c03a1	4211
SEQUENCE4306	cMhOj108g02a1	4212
SEQUENCE4307	cMhOj044d06a1	4213
SEQUENCE4308	cMhOj041b01a1	4214
SEQUENCE4309	cMhOj046e01a1	4215
SEQUENCE4310	cMhOj099f04a1	4216
SEQUENCE4311	cMhOj102a06a1	4217
SEQUENCE4312	cMhOj104e12a1	4218
SEQUENCE4313	cMhOj035h08a1	4219
SEQUENCE4314	cMhOj072c07a1	4220
SEQUENCE4315	cMhOj096d09a1	4221
SEQUENCE4316	cMhOj053e05a1	4222
SEQUENCE4317	cMhOj077b05a1	4223
SEQUENCE4318	cMhOj063f10a1	4224
SEQUENCE4319	cMhOj053b05a1	4225
SEQUENCE4320	cMhOj086a09a1	4226
SEQUENCE4321	cMhOj045b12a1	4227
SEQUENCE4322	cMhOj049a02a1	4228
SEQUENCE4323	cMhOj041g01a1	4229
SEQUENCE4324	cMhOj047d01a1	4230
SEQUENCE4325	cMhOj023d12a1	4231
SEQUENCE4326	cMhOj059b03a1	4232
SEQUENCE4327	cMhOj099h02a1	4233
SEQUENCE4328	cMhOj036h06a1	4234
SEQUENCE4329	cMhOj102d04a1	4235
SEQUENCE4330	cMhOj105c02a1	4236
SEQUENCE4331	cMhOj079f09a1	4237
SEQUENCE4332	cMhOj054e05a1	4238
SEQUENCE4333	cMhOj018d03a1	4239

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SEQUENCE4334	cMhOj065f03a1	4240
SEQUENCE4335	cMhOj077e08a1	4241
SEQUENCE4336	cMhOj049g09a1	4242
SEQUENCE4337	cMhOj096h12a1	4243
SEQUENCE4338	cMhOj053c12a1	4244
SEQUENCE4339	cMhOj003c11a2	4245
SEQUENCE4340	cMhOj107b10a1	4246
SEQUENCE4341	cMhOj067d11a1	4247
SEQUENCE4342	cMhOj045g07a1	4248
SEQUENCE4343	cMhOj049a04a1	4249
SEQUENCE4344	cMhOj042a04a1	4250
SEQUENCE4345	cMhOj047d07a1	4251
SEQUENCE4346	cMhOj105c11a1	4252
SEQUENCE4347	cMhOj059e03a1	4253
SEQUENCE4348	cMhOj102f10a1	4254
SEQUENCE4349	cMhOj036h08a1	4255
SEQUENCE4350	cMhOj080a01a1	4256
SEQUENCE4351	cMhOj054e11a1	4257
SEQUENCE4352	cMhOj018g04a1	4258
SEQUENCE4353	cMhOj065h10a1	4259
SEQUENCE4354	cMhOj078d12a1	4260
SEQUENCE4355	cMhOj049h02a1	4261
SEQUENCE4356	cMhOj003f12a2	4262
SEQUENCE4357	cMhOj107e02a1	4263
SEQUENCE4358	cMhOj067g09a1	4264
SEQUENCE4359	cMhOj045h10a1	4265
SEQUENCE4360	cMhOj049b06a1	4266
SEQUENCE4361	cMhOj056g06a1	4267
SEQUENCE4362	cMhOj048b01a1	4268
SEQUENCE4363	cMhOj091c01a1	4269
SEQUENCE4364	cMhOj061b10a1	4270
SEQUENCE4365	cMhOj105e04a1	4271
SEQUENCE4366	cMhOj089f07a1	4272
SEQUENCE4367	cMhOj080b02a1	4273
SEQUENCE4368	cMhOj054f05a1	4274
SEQUENCE4369	cMhOj018h11a1	4275
SEQUENCE4370	cMhOj066h12a1	4276
SEQUENCE4371	cMhOj007a04a2	4277
SEQUENCE4372	cMhOj022e12a1	4278
SEQUENCE4373	cMhOj107e10a1	4279
SEQUENCE4374	cMhOj068a05a1	4280
SEQUENCE4375	cMhOj046a06a1	4281
SEQUENCE4376	cMhOj049f10a1	4282
SEQUENCE4377	cMhOj057e08a1	4283
SEQUENCE4378	cMhOj091h02a1	4284
SEQUENCE4379	cMhOj061d08a1	4285
SEQUENCE4380	cMhOj090a03a1	4286
SEQUENCE4381	cMhOj080g10a1	4287
SEQUENCE4382	cMhOj054f12a1	4288
SEQUENCE4383	cMhOj053d10a1	4289
SEQUENCE4384	cMhOj037b09a1	4290
SEQUENCE4385	cMhOj078e06a1	4291
SEQUENCE4386	cMhOj007a10a2	4292

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SEQUENCE4387	cMhOj022f12a1	4293
SEQUENCE4388	cMhOj108a03a1	4294
SEQUENCE4389	cMhOj068d10a1	4295
SEQUENCE4390	cMhOj046a08a1	4296
SEQUENCE4391	cMhOk016b05a1	4297
SEQUENCE4392	cMhOk081d11a1	4298
SEQUENCE4393	cMhOk016g03a1	4299
SEQUENCE4394	cMhOk086h09a1	4300
SEQUENCE4395	cMhOk011a02a1	4301
SEQUENCE4396	cMhOk051a01a2	4302
SEQUENCE4397	cMhOk057d11a1	4303
SEQUENCE4398	cMhOk045b09a2	4304
SEQUENCE4399	cMhOk073c06a1	4305
SEQUENCE4400	cMhOk090g11a1	4306
SEQUENCE4401	cMhOk036d10a2	4307
SEQUENCE4402	cMhOk013a11a1	4308
SEQUENCE4403	cMhOk082c03a1	4309
SEQUENCE4404	cMhOk088f05a1	4310
SEQUENCE4405	cMhOk018b01a2	4311
SEQUENCE4406	cMhOk092g06a1	4312
SEQUENCE4407	cMhOk054e01a1	4313
SEQUENCE4408	cMhOk060h04a3	4314
SEQUENCE4409	cMhOk045c12a2	4315
SEQUENCE4411	cMhOk091h02a1	4316
SEQUENCE4412	cMhOk100h10a1	4317
SEQUENCE4413	cMhOk013c01a1	4318
SEQUENCE4414	cMhOk082d10a1	4319
SEQUENCE4415	cMhOk018f07a2	4320
SEQUENCE4416	cMhOk029d07a1	4321
SEQUENCE4417	cMhOk097a01a1	4322
SEQUENCE4418	cMhOk055d02a2	4323
SEQUENCE4419	cMhOk064d12a1	4324
SEQUENCE4420	cMhOk078g06a1	4325
SEQUENCE4421	cMhOk023h08a1	4326
SEQUENCE4422	cMhOk101h06a1	4327
SEQUENCE4423	cMhOk037d06a2	4328
SEQUENCE4424	cMhOk014d03a1	4329
SEQUENCE4425	cMhOk081a08a1	4330
SEQUENCE4426	cMhOk086c03a1	4331
SEQUENCE4427	cMhOk021d05a1	4332
SEQUENCE4428	cMhOk030h07a5	4333
SEQUENCE4429	cMhOk010d09a1	4334
SEQUENCE4430	cMhOk046h09a2	4335
SEQUENCE4431	cMhOk056a12a3	4336
SEQUENCE4432	cMhOk071g09a2	4337
SEQUENCE4433	cMhOk037h06a2	4338
SEQUENCE4434	cMhOk072h06a1	4339
SEQUENCE4435	cMhOk080b05a1	4340
SEQUENCE4436	cMhOk113b12a3	4341
SEQUENCE4437	cMhOk037e02a2	4342
SEQUENCE4438	cMhOg001h12a2	4343
SEQUENCE4439	cMhOg046f02a2	4344
SEQUENCE4440	cMhOg048d06a1	4345

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SEQUENCE4441	cMhOg045f03a1	4346
SEQUENCE4442	cMhOg051f11a1	4347
SEQUENCE4443	cMhOg023c07a1	4348
SEQUENCE4444	cMhOh116c05a2	4349
SEQUENCE4445	cMhOh015e12a2	4350
SEQUENCE4446	cMhOh082e12a3	4351
SEQUENCE4447	cMhOh084b12a1	4352
SEQUENCE4448	cMhOh014e11a2	4353
SEQUENCE4449	cMhOh072a09a1	4354
SEQUENCE4450	cMhOh036c07a1	4355
SEQUENCE4451	cMhOh053e05a1	4356
SEQUENCE4452	cMhOh117e08a3	4357
SEQUENCE4453	cMhOh039c10a1	4358
SEQUENCE4454	cMhOh069f12a1	4359
SEQUENCE4455	cMhOh083g07a3	4360
SEQUENCE4456	cMhOi069g09a1	4361
SEQUENCE4457	cMhOi010c05a1	4362
SEQUENCE4458	cMhOi003b02a1	4363
SEQUENCE4459	cMhOi046h02a1	4364
SEQUENCE4460	cMhOi046f07a1	4365
SEQUENCE4461	cMhOj067b05a1	4366
SEQUENCE4462	cMhOj070f03a1	4367
SEQUENCE4463	cMhOj105b05a1	4368
SEQUENCE4464	cMhOj109e07a1	4369
SEQUENCE4465	cMhOj036a04a1	4370
SEQUENCE4466	cMhOj112g02a1	4371
SEQUENCE4467	cMhOj091g01a1	4372
SEQUENCE4468	cMhOj112a11a1	4373
SEQUENCE4469	cMhOk065c01a1	4374
SEQUENCE4470	cMhOk081b11a1	4375
SEQUENCE4471	cMhOk038h07a2	4376
SEQUENCE4472	cMhOk003g01a3	4377
SEQUENCE4473	cMhOk042g03a2	4378
SEQUENCE4474	cMhOg010d12a1	4379
SEQUENCE4475	cMhOg010g06a1	4380
SEQUENCE4476	cMhOg001d11a2	4381
SEQUENCE4477	cMhOg022c11a1	4382
SEQUENCE4478	cMhOg009b01a1	4383
SEQUENCE4479	cMhOg046a11a2	4384
SEQUENCE4480	cMhOg031c03a1	4385
SEQUENCE4481	cMhOg001g11a2	4386
SEQUENCE4482	cMhOg010e05a1	4387
SEQUENCE4483	cMhOg033a08a1	4388
SEQUENCE4484	cMhOg010g11a1	4389
SEQUENCE4485	cMhOg006a01a1	4390
SEQUENCE4486	cMhOg038d02a1	4391
SEQUENCE4487	cMhOg032e01a1	4392
SEQUENCE4488	cMhOg022f08a1	4393
SEQUENCE4490	cMhOg009f04a1	4394
SEQUENCE4491	cMhOg002e03a2	4395
SEQUENCE4492	cMhOg001e08a2	4396
SEQUENCE4493	cMhOg043e01a1	4397
SEQUENCE4494	cMhOg031e05a1	4398

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SEQUENCE4495	cMhOg001h10a2	4399
SEQUENCE4496	cMhOg033b06a1	4400
SEQUENCE4497	cMhOg043c02a1	4401
SEQUENCE4498	cMhOg011a06a1	4402
SEQUENCE4499	cMhOg006a05a1	4403
SEQUENCE4500	cMhOg032g12a1	4404
SEQUENCE4501	cMhOg001b05a2	4405
SEQUENCE4502	cMhOg054c06a1	4406
SEQUENCE4503	cMhOg009f03a1	4407
SEQUENCE4504	cMhOg002e12a2	4408
SEQUENCE4505	cMhOg024b06a1	4409
SEQUENCE4506	cMhOg001g05a2	4410
SEQUENCE4507	cMhOg043e08a1	4411
SEQUENCE4508	cMhOg031g04a1	4412
SEQUENCE4509	cMhOg040h09a1	4413
SEQUENCE4510	cMhOg049d12a1	4414
SEQUENCE4512	cMhOg015g09a1	4415
SEQUENCE4513	cMhOg020h11a1	4416
SEQUENCE4514	cMhOg033h01a1	4417
SEQUENCE4515	cMhOg054c07a1	4418
SEQUENCE4516	cMhOg038g12a1	4419
SEQUENCE4517	cMhOg002g04a2	4420
SEQUENCE4518	cMhOg022h01a1	4421
SEQUENCE4519	cMhOg010c06a1	4422
SEQUENCE4520	cMhOg024d07a1	4423
SEQUENCE4521	cMhOg043h11a1	4424
SEQUENCE4522	cMhOg046h10a2	4425
SEQUENCE4523	cMhOg031h08a1	4426
SEQUENCE4524	cMhOg041a03a1	4427
SEQUENCE4525	cMhOg049g09a1	4428
SEQUENCE4526	cMhOg051g04a1	4429
SEQUENCE4527	cMhOg018a03a1	4430
SEQUENCE4528	cMhOg015c10a1	4431
SEQUENCE4529	cMhOg005g10a1	4432
SEQUENCE4530	cMhOg020h12a1	4433
SEQUENCE4531	cMhOg034b04a1	4434
SEQUENCE4532	cMhOg039b12a1	4435
SEQUENCE4533	cMhOg045e01a1	4436
SEQUENCE4534	cMhOg022h02a1	4437
SEQUENCE4535	cMhOg010d01a1	4438
SEQUENCE4536	cMhOg002c04a2	4439
SEQUENCE4537	cMhOg041f09a1	4440
SEQUENCE4538	cMhOg044a09a1	4441
SEQUENCE4539	cMhOg048a02a1	4442
SEQUENCE4540	cMhOg050d12a1	4443
SEQUENCE4541	cMhOg041a06a1	4444
SEQUENCE4542	cMhOg050b05a1	4445
SEQUENCE4543	cMhOg051g09a1	4446
SEQUENCE4544	cMhOg015d03a1	4447
SEQUENCE4545	cMhOg053e09a1	4448
SEQUENCE4546	cMhOg005h04a1	4449
SEQUENCE4547	cMhOg034b09a1	4450
SEQUENCE4548	cMhOg038d09a1	4451

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SEQUENCE4549	cMhOg046h04a2	4452
SEQUENCE4550	cMhOg044h12a1	4453
SEQUENCE4551	cMhOg023h11a1	4454
SEQUENCE4552	cMhOg053c11a1	4455
SEQUENCE4553	cMhOg023a06a1	4456
SEQUENCE4554	cMhOg002d08a2	4457
SEQUENCE4555	cMhOg053g10a1	4458
SEQUENCE4556	cMhOg044d03a1	4459
SEQUENCE4557	cMhOg050f06a1	4460
SEQUENCE4558	cMhOg003b02a2	4461
SEQUENCE4559	cMhOg018f01a1	4462
SEQUENCE4560	cMhOg041c04a1	4463
SEQUENCE4561	cMhOg039c11a1	4464
SEQUENCE4562	cMhOg051g11a1	4465
SEQUENCE4563	cMhOg054f07a1	4466
SEQUENCE4564	cMhOg040f11a1	4467
SEQUENCE4565	cMhOg034c04a1	4468
SEQUENCE4566	cMhOg039e10a1	4469
SEQUENCE4567	cMhOg015d11a1	4470
SEQUENCE4568	cMhOg050h11a1	4471
SEQUENCE4569	cMhOg053c12a1	4472
SEQUENCE4570	cMhOg023b03a1	4473
SEQUENCE4571	cMhOg054b02a1	4474
SEQUENCE4572	cMhOg050g03a1	4475
SEQUENCE4573	cMhOg003b12a2	4476
SEQUENCE4575	cMhOg033d10a1	4477
SEQUENCE4576	cMhOg006b05a1	4478
SEQUENCE4577	cMhOg008b10a1	4479
SEQUENCE4578	cMhOg034c06a1	4480
SEQUENCE4579	cMhOg039g09a1	4481
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SEQUENCE4583	cMhOg004d03a2	4484
SEQUENCE4584	cMhOg023d06a1	4485
SEQUENCE4585	cMhOg051a11a1	4486
SEQUENCE4586	cMhOg013c02a1	4487
SEQUENCE4587	cMhOg050c01a1	4488
SEQUENCE4588	cMhOg040g09a1	4489
SEQUENCE4589	cMhOg053d10a1	4490
SEQUENCE4590	cMhOg003c01a2	4491
SEQUENCE4591	cMhOg018h04a1	4492
SEQUENCE4592	cMhOg020g09a1	4493
SEQUENCE4593	cMhOg054c05a1	4494
SEQUENCE4594	cMhOg033f07a1	4495
SEQUENCE4595	cMhOg008d09a1	4496
SEQUENCE4596	cMhOg034d07a1	4497
SEQUENCE4597	cMhOg001a05a2	4498
SEQUENCE4598	cMhOg015g05a1	4499
SEQUENCE4599	cMhOg024a11a1	4500
SEQUENCE4600	cMhOg005a04a1	4501
SEQUENCE4601	cMhOg009h06a1	4502
SEQUENCE4602	cMhOg023e11a1	4503
SEQUENCE4603	cMhOg013g11a1	4504

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SEQUENCE4604	cMhOg041d04a1	4505
SEQUENCE4605	cMhOg040h01a1	4506
SEQUENCE4606	cMhOg049c10a1	4507
SEQUENCE4607	cMhOg003c07a2	4508
SEQUENCE4608	cMhOg019b05a1	4509
SEQUENCE4609	cMhOg010e10a1	4510
SEQUENCE4610	cMhOg050d01a1	4511
SEQUENCE4611	cMhOg033g12a1	4512
SEQUENCE4612	cMhOg008f08a1	4513
SEQUENCE4613	cMhOg034f03a1	4514
SEQUENCE4614	cMhOg024b04a1	4515
SEQUENCE4615	cMhOg038e03a1	4516
SEQUENCE4616	cMhOg043c05a1	4517
SEQUENCE4617	cMhOg038a08a1	4518
SEQUENCE4618	cMhOg046c07a2	4519
SEQUENCE4619	cMhOg005e07a1	4520
SEQUENCE4620	cMhOg010b03a1	4521
SEQUENCE4621	cMhOg050d02a1	4522
SEQUENCE4622	cMhOg044e10a1	4523
SEQUENCE4623	cMhOg003g05a2	4524
SEQUENCE4624	cMhOg019c11a1	4525
SEQUENCE4625	cMhOg033b07a1	4526
SEQUENCE4626	cMhOg010f05a1	4527
SEQUENCE4627	cMhOg018a08a1	4528
SEQUENCE4628	cMhOg052e02a1	4529
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SEQUENCE4630	cMhOg046c12a2	4531
SEQUENCE4631	cMhOg043d08a1	4532
SEQUENCE4632	cMhOg011b07a1	4533
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SEQUENCE4634	cMhOg050d04a1	4535
SEQUENCE4635	cMhOg044g08a1	4536
SEQUENCE4636	cMhOg003g09a2	4537
SEQUENCE4637	cMhOg010f06a1	4538
SEQUENCE4638	cMhOg033c08a1	4539
SEQUENCE4639	cMhOg020a04a1	4540
SEQUENCE4640	cMhOg019e08a1	4541
SEQUENCE4641	cMhOg032a03a1	4542
SEQUENCE4642	cMhOg040a02a1	4543
SEQUENCE4643	cMhOg050g08a1	4544
SEQUENCE4644	cMhOg052f07a1	4545
SEQUENCE4645	cMhOg006b01a1	4546
SEQUENCE4646	cMhOg046f12a2	4547
SEQUENCE4647	cMhOg023f10a1	4548
SEQUENCE4648	cMhOg034f06a1	4549
SEQUENCE4649	cMhOg011d07a1	4550
SEQUENCE4650	cMhOg051a12a1	4551
SEQUENCE4651	cMhOg024f06a1	4552
SEQUENCE4652	cMhOg003g10a2	4553
SEQUENCE4653	cMhOg019g05a1	4554
SEQUENCE4654	cMhOg010f10a1	4555
SEQUENCE4655	cMhOg020g07a1	4556
SEQUENCE4656	cMhOg032h09a1	4557

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SEQUENCE4657	cMhOg050h06a1	4558
SEQUENCE4658	cMhOg040d01a1	4559
SEQUENCE4659	cMhOg021a07a1	4560
SEQUENCE4660	cMhOg038c10a1	4561
SEQUENCE4661	cMhOg034g01a1	4562
SEQUENCE4662	cMhOg013a07a1	4563
SEQUENCE4663	cMhOg051c06a1	4564
SEQUENCE4664	cMhOg024h05a1	4565
SEQUENCE4665	cMhOg004b03a2	4566
SEQUENCE4666	cMhOg010g01a1	4567
SEQUENCE4667	cMhOg015d09a1	4568
SEQUENCE4668	cMhOg008b06a1	4569
SEQUENCE4669	cMhOg021c03a1	4570
SEQUENCE4670	cMhOg008g03a1	4571
SEQUENCE4671	cMhOg034g10a1	4572
SEQUENCE4672	cMhOg013c01a1	4573
SEQUENCE4673	cMhOg046a02a2	4574
SEQUENCE4674	cMhOg031b04a1	4575
SEQUENCE4675	cMhOg033d03a1	4576
SEQUENCE4676	cMhOh090d06a2	4577
SEQUENCE4677	cMhOh026c02a1	4578
SEQUENCE4678	cMhOh129b02a2	4579
SEQUENCE4679	cMhOh081a09a1	4580
SEQUENCE4680	cMhOh114f07a2	4581
SEQUENCE4681	cMhOh041c02a1	4582
SEQUENCE4682	cMhOh038a04a1	4583
SEQUENCE4683	cMhOh086g08a2	4584
SEQUENCE4684	cMhOh030f11a1	4585
SEQUENCE4685	cMhOh082d09a3	4586
SEQUENCE4686	cMhOh076a08a1	4587
SEQUENCE4687	cMhOh013e07a1	4588
SEQUENCE4688	cMhOh088a12a2	4589
SEQUENCE4689	cMhOh096a12a2	4590
SEQUENCE4690	cMhOh016e12a1	4591
SEQUENCE4691	cMhOh098f03a2	4592
SEQUENCE4692	cMhOh106f06a2	4593
SEQUENCE4693	cMhOh015f08a2	4594
SEQUENCE4694	cMhOh124h01a2	4595
SEQUENCE4695	cMhOh127d12a2	4596
SEQUENCE4696	cMhOh079c03a1	4597
SEQUENCE4697	cMhOh011e02a1	4598
SEQUENCE4698	cMhOh121f06a2	4599
SEQUENCE4699	cMhOh107g10a2	4600
SEQUENCE4700	cMhOh131f11a3	4601
SEQUENCE4701	cMhOh088d10a2	4602
SEQUENCE4702	cMhOh118g02a2	4603
SEQUENCE4703	cMhOh113b01a2	4604
SEQUENCE4704	cMhOh105g10a2	4605
SEQUENCE4705	cMhOh014e11a1	4606
SEQUENCE4706	cMhOh126g06a2	4607
SEQUENCE4707	cMhOh060a07a1	4608
SEQUENCE4708	cMhOh048a03a1	4609
SEQUENCE4709	cMhOh094a10a3	4610

Table 3

SEQUENCE4710	cMhOh001f07a2	4611
SEQUENCE4711	cMhOh128h03a2	4612
SEQUENCE4713	cMhOh036f01a1	4613
SEQUENCE4714	cMhOh030e11a1	4614
SEQUENCE4715	cMhOh119a04a2	4615
SEQUENCE4716	cMhOh115b12a2	4616
SEQUENCE4717	cMhOh117c07a3	4617
SEQUENCE4718	cMhOh128g08a2	4618
SEQUENCE4719	cMhOh129h06a2	4619
SEQUENCE4720	cMhOh068h11a1	4620
SEQUENCE4721	cMhOh114c02a2	4621
SEQUENCE4722	cMhOh079a07a1	4622
SEQUENCE4723	cMhOh084h03a1	4623
SEQUENCE4724	cMhOh024a04a1	4624
SEQUENCE4725	cMhOh110e05a2	4625
SEQUENCE4726	cMhOh095e08a2	4626
SEQUENCE4727	cMhOh089a09a2	4627
SEQUENCE4729	cMhOh017f08a2	4628
SEQUENCE4730	cMhOh116a08a2	4629
SEQUENCE4731	cMhOh114a04a2	4630
SEQUENCE4732	cMhOh127c05a2	4631
SEQUENCE4733	cMhOh080a05a1	4632
SEQUENCE4734	cMhOh014b11a2	4633
SEQUENCE4735	cMhOh012g05a2	4634
SEQUENCE4736	cMhOh127g12a2	4635
SEQUENCE4737	cMhOh045h05a2	4636
SEQUENCE4738	cMhOh052c07a2	4637
SEQUENCE4739	cMhOh083f05a3	4638
SEQUENCE4740	cMhOh060g08a1	4639
SEQUENCE4741	cMhOh077d05a1	4640
SEQUENCE4742	cMhOh093h02a2	4641
SEQUENCE4743	cMhOh110f03a2	4642
SEQUENCE4744	cMhOh057e10a1	4643
SEQUENCE4745	cMhOh015b11a1	4644
SEQUENCE4746	cMhOh114h03a2	4645
SEQUENCE4747	cMhOh102g10a2	4646
SEQUENCE4748	cMhOh013b03a1	4647
SEQUENCE4749	cMhOh123f11a2	4648
SEQUENCE4750	cMhOh068f11a1	4649
SEQUENCE4751	cMhOh080e06a1	4650
SEQUENCE4752	cMhOh091f07a2	4651
SEQUENCE4753	cMhOh029g10a1	4652
SEQUENCE4754	cMhOh095c10a2	4653
SEQUENCE4755	cMhOh065g03a1	4654
SEQUENCE4756	cMhOh015d10a1	4655
SEQUENCE4757	cMhOh126e08a2	4656
SEQUENCE4758	cMhOh128e10a2	4657
SEQUENCE4759	cMhOh005a02a1	4658
SEQUENCE4760	cMhOh011a11a1	4659
SEQUENCE4761	cMhOh054a01a1	4660
SEQUENCE4762	cMhOh072c02a1	4661
SEQUENCE4763	cMhOh020c01a1	4662
SEQUENCE4764	cMhOh023e09a2	4663

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SEQUENCE4765	cMhOh038h12a1	4664
SEQUENCE4766	cMhOh093f02a2	4665
SEQUENCE4767	cMhOh083d09a3	4666
SEQUENCE4768	cMhOh106e10a2	4667
SEQUENCE4769	cMhOh094f12a3	4668
SEQUENCE4770	cMhOh064d03a1	4669
SEQUENCE4771	cMhOh107d08a2	4670
SEQUENCE4772	cMhOh069h10a1	4671
SEQUENCE4773	cMhOh073c01a1	4672
SEQUENCE4774	cMhOh011g06a2	4673
SEQUENCE4775	cMhOh108d12a2	4674
SEQUENCE4776	cMhOh093a06a2	4675
SEQUENCE4777	cMhOh049g04a3	4676
SEQUENCE4778	cMhOh039g01a1	4677
SEQUENCE4779	cMhOh022a01a1	4678
SEQUENCE4780	cMhOh119e03a2	4679
SEQUENCE4781	cMhOh052f03a2	4680
SEQUENCE4782	cMhOh074g02a2	4681
SEQUENCE4783	cMhOh105c11a2	4682
SEQUENCE4784	cMhOh044c10a2	4683
SEQUENCE4785	cMhOh012b04a2	4684
SEQUENCE4786	cMhOh109b01a2	4685
SEQUENCE4787	cMhOh033h04a1	4686
SEQUENCE4788	cMhOh078f03a1	4687
SEQUENCE4789	cMhOh129f01a2	4688
SEQUENCE4790	cMhOh092d01a2	4689
SEQUENCE4791	cMhOh073d01a3	4690
SEQUENCE4792	cMhOh115c04a2	4691
SEQUENCE4793	cMhOh048b06a1	4692
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SEQUENCE4796	cMhOh017d01a2	4695
SEQUENCE4797	cMhOh100e09a2	4696
SEQUENCE4798	cMhOh123d05a2	4697
SEQUENCE4799	cMhOh068c03a1	4698
SEQUENCE4800	cMhOh126d03a2	4699
SEQUENCE4801	cMhOh090e09a2	4700
SEQUENCE4802	cMhOh034g07a1	4701
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SEQUENCE4808	cMhOh014a07a1	4707
SEQUENCE4809	cMhOh098c05a2	4708
SEQUENCE4810	cMhOh114b06a2	4709
SEQUENCE4811	cMhOh081d07a1	4710
SEQUENCE4812	cMhOh114f09a2	4711
SEQUENCE4813	cMhOh048a06a1	4712
SEQUENCE4814	cMhOh015a08a1	4713
SEQUENCE4815	cMhOh056c12a1	4714
SEQUENCE4816	cMhOh011e07a2	4715
SEQUENCE4817	cMhOh077a05a1	4716

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SEQUENCE4818	cMhOh014a11a1	4717
SEQUENCE4819	cMhOh110b09a2	4718
SEQUENCE4820	cMhOh110e08a2	4719
SEQUENCE4821	cMhOh073g08a3	4720
SEQUENCE4822	cMhOh079b01a1	4721
SEQUENCE4823	cMhOh001h09a2	4722
SEQUENCE4824	cMhOh048f10a1	4723
SEQUENCE4825	cMhOh068a03a1	4724
SEQUENCE4826	cMhOh118c01a2	4725
SEQUENCE4827	cMhOh026e04a1	4726
SEQUENCE4828	cMhOh022g03a2	4727
SEQUENCE4829	cMhOh129b04a2	4728
SEQUENCE4830	cMhOh091h12a2	4729
SEQUENCE4831	cMhOh041c11a1	4730
SEQUENCE4832	cMhOh038g02a1	4731
SEQUENCE4833	cMhOh087b07a2	4732
SEQUENCE4834	cMhOh030g06a1	4733
SEQUENCE4835	cMhOh076b11a1	4734
SEQUENCE4836	cMhOh013f02a2	4735
SEQUENCE4837	cMhOh082e09a3	4736
SEQUENCE4838	cMhOh125b07a2	4737
SEQUENCE4839	cMhOh017a06a1	4738
SEQUENCE4840	cMhOh098h08a2	4739
SEQUENCE4841	cMhOh015f09a2	4740
SEQUENCE4842	cMhOh128b01a2	4741
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SEQUENCE4848	cMhOh120a02a2	4747
SEQUENCE4849	cMhOh131g01a3	4748
SEQUENCE4850	cMhOh018g02a1	4749
SEQUENCE4851	cMhOh022d04a2	4750
SEQUENCE4852	cMhOh088d12a2	4751
SEQUENCE4853	cMhOh021g03a1	4752
SEQUENCE4854	cMhOh118g03a2	4753
SEQUENCE4855	cMhOh119f03a2	4754
SEQUENCE4856	cMhOh113d08a2	4755
SEQUENCE4857	cMhOh078c06a1	4756
SEQUENCE4858	cMhOh105h05a2	4757
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SEQUENCE4863	cMhOh053c07a1	4762
SEQUENCE4864	cMhOh094a11a3	4763
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SEQUENCE4866	cMhOh065g06a1	4765
SEQUENCE4867	cMhOh129a01a2	4766
SEQUENCE4868	cMhOh019d04a1	4767
SEQUENCE4869	cMhOh109c12a2	4768
SEQUENCE4870	cMhOh036f07a1	4769

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SEQUENCE4871	cMhOh030e12a1	4770
SEQUENCE4872	cMhOh131h11a3	4771
SEQUENCE4874	cMhOh117d04a3	4772
SEQUENCE4875	cMhOh131a02a3	4773
SEQUENCE4876	cMhOh069a05a1	4774
SEQUENCE4877	cMhOh114c07a2	4775
SEQUENCE4878	cMhOh084h10a1	4776
SEQUENCE4879	cMhOh024b05a1	4777
SEQUENCE4880	cMhOh089c07a2	4778
SEQUENCE4881	cMhOh095e12a2	4779
SEQUENCE4882	cMhOh123b12a2	4780
SEQUENCE4883	cMhOh017f12a2	4781
SEQUENCE4884	cMhOh116b04a2	4782
SEQUENCE4885	cMhOh021c12a1	4783
SEQUENCE4886	cMhOh015e04a2	4784
SEQUENCE4887	cMhOh003g06a1	4785
SEQUENCE4888	cMhOh053c02a1	4786
SEQUENCE4889	cMhOh078a05a1	4787
SEQUENCE4890	cMhOh055c02a1	4788
SEQUENCE4891	cMhOh105d10a2	4789
SEQUENCE4892	cMhOh127d01a2	4790
SEQUENCE4893	cMhOh048a02a1	4791
SEQUENCE4895	cMhOh083f10a3	4792
SEQUENCE4896	cMhOh052e05a2	4793
SEQUENCE4897	cMhOh060g09a1	4794
SEQUENCE4898	cMhOh077e07a1	4795
SEQUENCE4899	cMhOh110c09a2	4796
SEQUENCE4900	cMhOh094a02a3	4797
SEQUENCE4901	cMhOh110g01a2	4798
SEQUENCE4902	cMhOh072e12a1	4799
SEQUENCE4903	cMhOh115f02a2	4800
SEQUENCE4904	cMhOh048d05a1	4801
SEQUENCE4905	cMhOh001a02a2	4802
SEQUENCE4906	cMhOh093g04a2	4803
SEQUENCE4907	cMhOh015c11a2	4804
SEQUENCE4908	cMhOh105a09a2	4805
SEQUENCE4909	cMhOh074g07a2	4806
SEQUENCE4910	cMhOh013c12a1	4807
SEQUENCE4911	cMhOh123h04a2	4808
SEQUENCE4913	cMhOh045d07a2	4809
SEQUENCE4914	cMhOh080e08a1	4810
SEQUENCE4915	cMhOh040a02a1	4811
SEQUENCE4916	cMhOh030b08a1	4812
SEQUENCE4917	cMhOh074g04a2	4813
SEQUENCE4918	cMhOh095e06a2	4814
SEQUENCE4919	cMhOh015d11a2	4815
SEQUENCE4920	cMhOh012c11a2	4816
SEQUENCE4921	cMhOh128f06a2	4817
SEQUENCE4922	cMhOh116g12a2	4818
SEQUENCE4923	cMhOh005c06a1	4819
SEQUENCE4924	cMhOh011b03a1	4820
SEQUENCE4925	cMhOh080a04a1	4821
SEQUENCE4926	cMhOh054a05a1	4822

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SEQUENCE4927	cMhOh118e01a2	4823
SEQUENCE4928	cMhOh088f07a2	4824
SEQUENCE4929	cMhOh023e11a2	4825
SEQUENCE4930	cMhOh077c06a1	4826
SEQUENCE4931	cMhOh039c11a1	4827
SEQUENCE4932	cMhOh106f03a2	4828
SEQUENCE4933	cMhOh110c02a2	4829
SEQUENCE4934	cMhOh064d06a1	4830
SEQUENCE4935	cMhOh072a04a3	4831
SEQUENCE4936	cMhOh073c09a3	4832
SEQUENCE4937	cMhOh082a05a3	4833
SEQUENCE4938	cMhOh011g07a1	4834
SEQUENCE4939	cMhOh108e11a2	4835
SEQUENCE4940	cMhOh093e09a2	4836
SEQUENCE4941	cMhOh012e04a2	4837
SEQUENCE4942	cMhOh048g03a1	4838
SEQUENCE4943	cMhOh051b11a1	4839
SEQUENCE4945	cMhOh022a01a2	4840
SEQUENCE4946	cMhOh008b08a2	4841
SEQUENCE4947	cMhOh044d02a2	4842
SEQUENCE4948	cMhOh034e04a1	4843
SEQUENCE4949	cMhOh078f11a1	4844
SEQUENCE4950	cMhOh126g03a2	4845
SEQUENCE4951	cMhOh129g07a2	4846
SEQUENCE4952	cMhOh092d09a2	4847
SEQUENCE4953	cMhOh073d06a3	4848
SEQUENCE4954	cMhOh049a03a3	4849
SEQUENCE4955	cMhOh002e03a1	4850
SEQUENCE4956	cMhOh017e01a2	4851
SEQUENCE4957	cMhOh100g04a2	4852
SEQUENCE4958	cMhOh116f10a2	4853
SEQUENCE4959	cMhOh068d01a1	4854
SEQUENCE4960	cMhOh123e03a2	4855
SEQUENCE4961	cMhOh118c06a2	4856
SEQUENCE4962	cMhOh126d07a2	4857
SEQUENCE4963	cMhOh090h01a2	4858
SEQUENCE4964	cMhOh029f10a1	4859
SEQUENCE4965	cMhOh020b12a1	4860
SEQUENCE4966	cMhOh023d11a2	4861
SEQUENCE4967	cMhOh127a02a2	4862
SEQUENCE4968	cMhOh078c09a1	4863
SEQUENCE4969	cMhOh098d01a2	4864
SEQUENCE4970	cMhOh014a08a1	4865
SEQUENCE4971	cMhOh128e06a2	4866
SEQUENCE4972	cMhOh081e03a1	4867
SEQUENCE4973	cMhOh015a11a1	4868
SEQUENCE4974	cMhOh052f01a2	4869
SEQUENCE4975	cMhOh077f01a1	4870
SEQUENCE4976	cMhOh022f06a2	4871
SEQUENCE4977	cMhOh056d10a1	4872
SEQUENCE4978	cMhOh011f05a1	4873
SEQUENCE4979	cMhOh074a06a2	4874
SEQUENCE4980	cMhOh094g09a3	4875

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SEQUENCE4981	cMhOh113f02a2	4876
SEQUENCE4982	cMhOh123d04a2	4877
SEQUENCE4983	cMhOh118c03a2	4878
SEQUENCE4984	cMhOh060e03a1	4879
SEQUENCE4985	cMhOh026g10a1	4880
SEQUENCE4986	cMhOh129b09a2	4881
SEQUENCE4987	cMhOh092a06a2	4882
SEQUENCE4988	cMhOh041d09a1	4883
SEQUENCE4989	cMhOh087d08a2	4884
SEQUENCE4990	cMhOh030h11a1	4885
SEQUENCE4991	cMhOh048a08a1	4886
SEQUENCE4992	cMhOh125c02a2	4887
SEQUENCE4993	cMhOh128d07a2	4888
SEQUENCE4994	cMhOh017a06a2	4889
SEQUENCE4996	cMhOh015g09a2	4890
SEQUENCE4997	cMhOh069d02a1	4891
SEQUENCE4998	cMhOh121h01a2	4892
SEQUENCE4999	cMhOh107h12a2	4893
SEQUENCE5000	cMhOh025b10a1	4894
SEQUENCE5001	cMhOh120b05a2	4895
SEQUENCE5002	cMhOh019a02a1	4896
SEQUENCE5003	cMhOh022d06a2	4897
SEQUENCE5004	cMhOh021g07a1	4898
SEQUENCE5005	cMhOh088f01a2	4899
SEQUENCE5006	cMhOh118h08a2	4900
SEQUENCE5007	cMhOh087f08a2	4901
SEQUENCE5008	cMhOh105a11a2	4902
SEQUENCE5009	cMhOh015a03a2	4903
SEQUENCE5010	cMhOh045d11a2	4904
SEQUENCE5011	cMhOh021e05a1	4905
SEQUENCE5012	cMhOh031g07a2	4906
SEQUENCE5013	cMhOh126h07a2	4907
SEQUENCE5014	cMhOh053d06a1	4908
SEQUENCE5015	cMhOh001h01a2	4909
SEQUENCE5016	cMhOh065h02a1	4910
SEQUENCE5017	cMhOh019e05a1	4911
SEQUENCE5018	cMhOh109e06a2	4912
SEQUENCE5019	cMhOh073d09a3	4913
SEQUENCE5020	cMhOh020e04a1	4914
SEQUENCE5021	cMhOh117e02a3	4915
SEQUENCE5022	cMhOh090a08a2	4916
SEQUENCE5023	cMhOh057g07a1	4917
SEQUENCE5024	cMhOh069a11a1	4918
SEQUENCE5025	cMhOh080h10a1	4919
SEQUENCE5026	cMhOh114d03a2	4920
SEQUENCE5027	cMhOh131a09a3	4921
SEQUENCE5028	cMhOh086e03a2	4922
SEQUENCE5029	cMhOh024b06a1	4923
SEQUENCE5030	cMhOh119h11a2	4924
SEQUENCE5031	cMhOh075b07a2	4925
SEQUENCE5032	cMhOh013d11a2	4926
SEQUENCE5033	cMhOh095f02a2	4927
SEQUENCE5034	cMhOh018e05a1	4928

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SEQUENCE5035	cMhOh116d06a2	4929
SEQUENCE5036	cMhOh098d11a2	4930
SEQUENCE5037	cMhOh015f07a1	4931
SEQUENCE5038	cMhOh008g05a2	4932
SEQUENCE5039	cMhOh078b07a1	4933
SEQUENCE5040	cMhOh055e01a1	4934
SEQUENCE5041	cMhOh011c11a1	4935
SEQUENCE5042	cMhOh127d03a2	4936
SEQUENCE5043	cMhOh131c01a3	4937
SEQUENCE5044	cMhOh088c02a2	4938
SEQUENCE5045	cMhOh083g06a3	4939
SEQUENCE5046	cMhOh064a02a1	4940
SEQUENCE5047	cMhOh054g06a1	4941
SEQUENCE5048	cMhOh113a03a2	4942
SEQUENCE5049	cMhOh072f06a1	4943
SEQUENCE5050	cMhOh048e07a1	4944
SEQUENCE5051	cMhOh001f06a2	4945
SEQUENCE5052	cMhOh015d05a1	4946
SEQUENCE5053	cMhOh127e11a2	4947
SEQUENCE5054	cMhOh123h06a2	4948
SEQUENCE5055	cMhOh015h08a2	4949
SEQUENCE5056	cMhOh089d07a2	4950
SEQUENCE5057	cMhOh080f11a1	4951
SEQUENCE5058	cMhOh040f03a1	4952
SEQUENCE5059	cMhOh030c01a1	4953
SEQUENCE5060	cMhOh121b09a2	4954
SEQUENCE5061	cMhOh074g06a2	4955
SEQUENCE5062	cMhOh015d12a2	4956
SEQUENCE5063	cMhOh012d01a2	4957
SEQUENCE5064	cMhOh117a07a3	4958
SEQUENCE5065	cMhOh077g02a1	4959
SEQUENCE5066	cMhOh005h02a1	4960
SEQUENCE5067	cMhOh011c01a2	4961
SEQUENCE5068	cMhOh118e08a2	4962
SEQUENCE5069	cMhOh088f11a2	4963
SEQUENCE5070	cMhOh023g02a2	4964
SEQUENCE5071	cMhOh039d04a1	4965
SEQUENCE5072	cMhOh113g04a2	4966
SEQUENCE5073	cMhOh110c05a2	4967
SEQUENCE5074	cMhOh079f10a1	4968
SEQUENCE5075	cMhOh073d01a1	4969
SEQUENCE5076	cMhOh082a07a3	4970
SEQUENCE5077	cMhOh011h04a1	4971
SEQUENCE5078	cMhOh127a06a2	4972
SEQUENCE5079	cMhOh012e08a2	4973
SEQUENCE5080	cMhOh128g09a2	4974
SEQUENCE5081	cMhOh051c10a1	4975
SEQUENCE5082	cMhOh022c04a2	4976
SEQUENCE5083	cMhOh041h12a1	4977
SEQUENCE5084	cMhOh057c12a1	4978
SEQUENCE5085	cMhOh045b09a2	4979
SEQUENCE5086	cMhOh034e11a1	4980
SEQUENCE5087	cMhOh078h03a1	4981

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SEQUENCE5088	cMhOh129g09a2	4982
SEQUENCE5089	cMhOh092g09a2	4983
SEQUENCE5090	cMhOh110d04a2	4984
SEQUENCE5091	cMhOh013a05a2	4985
SEQUENCE5092	cMhOh003b10a1	4986
SEQUENCE5093	cMhOh017e03a1	4987
SEQUENCE5094	cMhOh115f03a2	4988
SEQUENCE5095	cMhOh116g08a2	4989
SEQUENCE5096	cMhOh068e03a1	4990
SEQUENCE5097	cMhOh123f01a2	4991
SEQUENCE5098	cMhOh118d09a2	4992
SEQUENCE5099	cMhOh091a01a2	4993
SEQUENCE5100	cMhOh029f12a1	4994
SEQUENCE5101	cMhOh078e01a1	4995
SEQUENCE5102	cMhOh118c04a2	4996
SEQUENCE5103	cMhOh128e07a2	4997
SEQUENCE5104	cMhOh081h08a1	4998
SEQUENCE5105	cMhOh053d08a1	4999
SEQUENCE5106	cMhOh038g05a1	5000
SEQUENCE5107	cMhOh015a11a2	5001
SEQUENCE5108	cMhOh082g12a3	5002
SEQUENCE5109	cMhOh015h03a2	5003
SEQUENCE5110	cMhOh019f10a1	5004
SEQUENCE5111	cMhOh022g02a2	5005
SEQUENCE5112	cMhOh107a07a2	5006
SEQUENCE5113	cMhOh102e12a2	5007
SEQUENCE5114	cMhOh057a06a1	5008
SEQUENCE5115	cMhOh011f06a1	5009
SEQUENCE5116	cMhOh126e11a2	5010
SEQUENCE5117	cMhOh049b12a3	5011
SEQUENCE5118	cMhOh057g08a1	5012
SEQUENCE5119	cMhOh021g12a1	5013
SEQUENCE5120	cMhOh102a01a2	5014
SEQUENCE5121	cMhOh119a12a2	5015
SEQUENCE5122	cMhOh131b07a3	5016
SEQUENCE5123	cMhOh087f11a2	5017
SEQUENCE5124	cMhOh074b07a2	5018
SEQUENCE5125	cMhOh113f08a2	5019
SEQUENCE5127	cMhOh095b11a2	5020
SEQUENCE5128	cMhOh042e08a2	5021
SEQUENCE5129	cMhOh108g11a2	5022
SEQUENCE5130	cMhOh031g08a2	5023
SEQUENCE5131	cMhOh060f06a1	5024
SEQUENCE5132	cMhOh029b08a1	5025
SEQUENCE5133	cMhOh004f03a1	5026
SEQUENCE5134	cMhOh107e07a2	5027
SEQUENCE5135	cMhOh092a09a2	5028
SEQUENCE5136	cMhOh129b10a2	5029
SEQUENCE5137	cMhOh087e09a2	5030
SEQUENCE5138	cMhOh119f02a2	5031
SEQUENCE5139	cMhOh048a09a1	5032
SEQUENCE5140	cMhOh125f06a2	5033
SEQUENCE5141	cMhOh128e02a2	5034

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SEQUENCE5142	cMhOh017a07a2	5035
SEQUENCE5143	cMhOh100a07a2	5036
SEQUENCE5144	cMhOh090e02a2	5037
SEQUENCE5145	cMhOh069d09a1	5038
SEQUENCE5146	cMhOh122a05a2	5039
SEQUENCE5147	cMhOh108c09a2	5040
SEQUENCE5148	cMhOh072g05a3	5041
SEQUENCE5149	cMhOh026b12a1	5042
SEQUENCE5150	cMhOh120c03a2	5043
SEQUENCE5151	cMhOh098b03a2	5044
SEQUENCE5152	cMhOh019a02a2	5045
SEQUENCE5153	cMhOh106f08a2	5046
SEQUENCE5154	cMhOh105b06a2	5047
SEQUENCE5155	cMhOh015a07a1	5048
SEQUENCE5156	cMhOh045e06a2	5049
SEQUENCE5157	cMhOh008g09a2	5050
SEQUENCE5158	cMhOh055f02a1	5051
SEQUENCE5159	cMhOh042b05a2	5052
SEQUENCE5160	cMhOh076e11a1	5053
SEQUENCE5162	cMhOh109h01a2	5054
SEQUENCE5163	cMhOh073e04a1	5055
SEQUENCE5164	cMhOh020e06a1	5056
SEQUENCE5165	cMhOh117e06a3	5057
SEQUENCE5166	cMhOh090c06a2	5058
SEQUENCE5167	cMhOh081a08a1	5059
SEQUENCE5168	cMhOh114e09a2	5060
SEQUENCE5170	cMhOh086e09a2	5061
SEQUENCE5171	cMhOh082c09a3	5062
SEQUENCE5172	cMhOh024c06a1	5063
SEQUENCE5173	cMhOh075e11a2	5064
SEQUENCE5174	cMhOh013e06a1	5065
SEQUENCE5175	cMhOh095g06a2	5066
SEQUENCE5176	cMhOh124f08a2	5067
SEQUENCE5177	cMhOh116f01a2	5068
SEQUENCE5178	cMhOh098e02a2	5069
SEQUENCE5179	cMhOh015f08a1	5070
SEQUENCE5180	cMhOh127d05a2	5071
SEQUENCE5181	cMhOh079b07a1	5072
SEQUENCE5182	cMhOh011d04a1	5073
SEQUENCE5183	cMhOh121c02a2	5074
SEQUENCE5184	cMhOh131c12a3	5075
SEQUENCE5185	cMhOh088c08a2	5076
SEQUENCE5186	cMhOh083h05a3	5077
SEQUENCE5187	cMhOh064b04a1	5078
SEQUENCE5189	cMhOh048e12a1	5079
SEQUENCE5190	cMhOh014d12a1	5080
SEQUENCE5191	cMhOh022d07a2	5081
SEQUENCE5192	cMhOh016c10a1	5082
SEQUENCE5193	cMhOh089f03a2	5083
SEQUENCE5194	cMhOh057e11a1	5084
SEQUENCE5195	cMhOh128g12a2	5085
SEQUENCE5196	cMhOh080f12a1	5086
SEQUENCE5197	cMhOh041a10a1	5087

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SEQUENCE5198	cMhOh035e09a1	5088
SEQUENCE5199	cMhOh030e02a1	5089
SEQUENCE5200	cMhOh115b10a2	5090
SEQUENCE5201	cMhOh087f04a2	5091
SEQUENCE5203	cMhOh117a08a3	5092
SEQUENCE5204	cMhOh128g03a2	5093
SEQUENCE5205	cMhOh068g05a1	5094
SEQUENCE5206	cMhOh006a04a1	5095
SEQUENCE5207	cMhOh011c05a1	5096
SEQUENCE5208	cMhOh118e10a2	5097
SEQUENCE5209	cMhOh089a06a2	5098
SEQUENCE5210	cMhOh023h10a2	5099
SEQUENCE5211	cMhOh110e03a2	5100
SEQUENCE5212	cMhOh113h04a2	5101
SEQUENCE5213	cMhOh127b04a2	5102
SEQUENCE5214	cMhOh011h05a1	5103
SEQUENCE5215	cMhOh014a12a2	5104
SEQUENCE5216	cMhOh012g03a2	5105
SEQUENCE5217	cMhOh045f08a2	5106
SEQUENCE5218	cMhOh051f12a1	5107
SEQUENCE5219	cMhOh083e02a3	5108
SEQUENCE5220	cMhOh060f07a1	5109
SEQUENCE5221	cMhOh057e04a1	5110
SEQUENCE5222	cMhOh015b04a2	5111
SEQUENCE5223	cMhOh129g10a2	5112
SEQUENCE5224	cMhOh114g01a2	5113
SEQUENCE5225	cMhOh102f05a2	5114
SEQUENCE5226	cMhOh122e01a2	5115
SEQUENCE5227	cMhOh013a08a1	5116
SEQUENCE5228	cMhOh003d07a1	5117
SEQUENCE5229	cMhOh017e09a2	5118
SEQUENCE5230	cMhOh115f09a2	5119
SEQUENCE5231	cMhOh123f08a2	5120
SEQUENCE5232	cMhOh059a09a2	5121
SEQUENCE5233	cMhOh068e08a1	5122
SEQUENCE5234	cMhOh091b04a2	5123
SEQUENCE5235	cMhOh029g09a1	5124
SEQUENCE5236	cMhOh095c01a2	5125
SEQUENCE5237	cMhOh127f09a2	5126
SEQUENCE5238	cMhOh128e09a2	5127
SEQUENCE5239	cMhOh004f09a1	5128
SEQUENCE5240	cMhOh053e03a1	5129
SEQUENCE5241	cMhOh038g06a1	5130
SEQUENCE5242	cMhOh082h03a3	5131
SEQUENCE5243	cMhOh019g09a2	5132
SEQUENCE5244	cMhOh094d12a3	5133
SEQUENCE5245	cMhOh064d02a1	5134
SEQUENCE5246	cMhOh114b12a2	5135
SEQUENCE5247	cMhOh107c07a2	5136
SEQUENCE5248	cMhOh057a12a1	5137
SEQUENCE5249	cMhOh011g06a1	5138
SEQUENCE5250	cMhOh049f08a3	5139
SEQUENCE5251	cMhOh039e05a1	5140

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SEQUENCE5252	cMhOh021h02a1	5141
SEQUENCE5253	cMhOh102a10a2	5142
SEQUENCE5254	cMhOh119d09a2	5143
SEQUENCE5255	cMhOh131b11a3	5144
SEQUENCE5256	cMhOh074c09a2	5145
SEQUENCE5257	cMhOh065b06a1	5146
SEQUENCE5258	cMhOh042g04a2	5147
SEQUENCE5259	cMhOh108h06a2	5148
SEQUENCE5260	cMhOh031h12a2	5149
SEQUENCE5261	cMhOh078e10a1	5150
SEQUENCE5262	cMhOh129c06a2	5151
SEQUENCE5263	cMhOh092a12a2	5152
SEQUENCE5264	cMhOh048a10a1	5153
SEQUENCE5265	cMhOh048h08a1	5154
SEQUENCE5266	cMhOh002b11a1	5155
SEQUENCE5267	cMhOh017b12a1	5156
SEQUENCE5268	cMhOh100b03a2	5157
SEQUENCE5269	cMhOh126b11a2	5158
SEQUENCE5270	cMhOh068a11a1	5159
SEQUENCE5271	cMhOh004d09a1	5160
SEQUENCE5272	cMhOh090e07a2	5161
SEQUENCE5273	cMhOh034f06a1	5162
SEQUENCE5274	cMhOh079a03a1	5163
SEQUENCE5275	cMhOh069g05a1	5164
SEQUENCE5276	cMhOh023b08a2	5165
SEQUENCE5277	cMhOh108d03a2	5166
SEQUENCE5278	cMhOh038g04a1	5167
SEQUENCE5279	cMhOh072h04a1	5168
SEQUENCE5280	cMhOh082f02a3	5169
SEQUENCE5281	cMhOh093a05a2	5170
SEQUENCE5282	cMhOh098c01a2	5171
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SEQUENCE5284	cMhOh014a02a2	5173
SEQUENCE5285	cMhOh080c01a1	5174
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SEQUENCE5288	cMhOh105b07a2	5177
SEQUENCE5289	cMhOh015a07a2	5178
SEQUENCE5290	cMhOh131g12a3	5179
SEQUENCE5291	cMhOh009g06a1	5180
SEQUENCE5292	cMhOh056b09a1	5181
SEQUENCE5293	cMhOh042b08a2	5182
SEQUENCE5294	cMhOh119g08a2	5183
SEQUENCE5295	cMhOh076h08a1	5184
SEQUENCE5296	cMhOh014a09a1	5185
SEQUENCE5297	cMhOh110a09a2	5186
SEQUENCE5298	cMhOh110e07a2	5187
SEQUENCE5299	cMhOh073g06a3	5188
SEQUENCE5300	cMhOh020g04a1	5189
SEQUENCE5301	cMhOh048f05a1	5190
SEQUENCE5302	cMhOh003d12a1	5191
SEQUENCE5303	cMhOh117f10a3	5192
SEQUENCE5304	cMhOi042h10a1	5193

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SEQUENCE5305	cMhOi031f10a1	5194
SEQUENCE5306	cMhOi031e03a1	5195
SEQUENCE5307	cMhOi068f10a1	5196
SEQUENCE5308	cMhOi013g06a1	5197
SEQUENCE5309	cMhOi074h04a1	5198
SEQUENCE5310	cMhOi075e09a2	5199
SEQUENCE5311	cMhOi034a09a1	5200
SEQUENCE5312	cMhOi075d12a2	5201
SEQUENCE5313	cMhOi013e06a1	5202
SEQUENCE5314	cMhOi074e05a1	5203
SEQUENCE5315	cMhOi025g11a2	5204
SEQUENCE5316	cMhOi033g04a1	5205
SEQUENCE5317	cMhOi008d02a1	5206
SEQUENCE5318	cMhOi025e07a2	5207
SEQUENCE5319	cMhOi011b02a1	5208
SEQUENCE5320	cMhOi039d02a2	5209
SEQUENCE5321	cMhOi033f03a1	5210
SEQUENCE5322	cMhOi043f09a3	5211
SEQUENCE5323	cMhOi033b11a1	5212
SEQUENCE5324	cMhOi039c08a2	5213
SEQUENCE5325	cMhOi038e11a2	5214
SEQUENCE5326	cMhOi032b07a1	5215
SEQUENCE5327	cMhOi036g06a2	5216
SEQUENCE5328	cMhOi038c12a2	5217
SEQUENCE5329	cMhOi027h05a1	5218
SEQUENCE5330	cMhOi037b07a1	5219
SEQUENCE5331	cMhOi079c01a1	5220
SEQUENCE5332	cMhOi027g06a1	5221
SEQUENCE5333	cMhOi045b04a1	5222
SEQUENCE5334	cMhOi074h09a1	5223
SEQUENCE5335	cMhOi026c10a1	5224
SEQUENCE5336	cMhOi044h01a1	5225
SEQUENCE5337	cMhOi007a04a1	5226
SEQUENCE5338	cMhOi021e01a1	5227
SEQUENCE5339	cMhOi069c09a1	5228
SEQUENCE5340	cMhOi044g04a1	5229
SEQUENCE5341	cMhOi069e12a1	5230
SEQUENCE5342	cMhOi014e07a1	5231
SEQUENCE5343	cMhOi044f04a1	5232
SEQUENCE5344	cMhOi080a05a1	5233
SEQUENCE5345	cMhOi003e06a1	5234
SEQUENCE5346	cMhOi035h10a1	5235
SEQUENCE5347	cMhOi001b02a1	5236
SEQUENCE5348	cMhOi014d10a1	5237
SEQUENCE5349	cMhOi069c07a1	5238
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SEQUENCE5351	cMhOi079f05a1	5240
SEQUENCE5352	cMhOi081g12a1	5241
SEQUENCE5353	cMhOi035f02a1	5242
SEQUENCE5354	cMhOi077g07a1	5243
SEQUENCE5355	cMhOi014d07a1	5244
SEQUENCE5356	cMhOi034h03a1	5245
SEQUENCE5357	cMhOi077d01a1	5246

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SEQUENCE5358	cMhOi014b11a1	5247
SEQUENCE5359	cMhOi045d11a1	5248
SEQUENCE5360	cMhOi008b05a1	5249
SEQUENCE5361	cMhOi022e11a2	5250
SEQUENCE5362	cMhOi034d01a1	5251
SEQUENCE5363	cMhOi009b03a1	5252
SEQUENCE5364	cMhOi045d08a1	5253
SEQUENCE5365	cMhOi075e10a2	5254
SEQUENCE5366	cMhOi060a09a2	5255
SEQUENCE5367	cMhOi070b10a1	5256
SEQUENCE5368	cMhOi043e10a3	5257
SEQUENCE5369	cMhOi008f10a1	5258
SEQUENCE5370	cMhOi045b08a1	5259
SEQUENCE5371	cMhOi039g01a2	5260
SEQUENCE5372	cMhOi056f08a1	5261
SEQUENCE5373	cMhOi070a12a1	5262
SEQUENCE5374	cMhOi008e05a1	5263
SEQUENCE5375	cMhOi039d04a2	5264
SEQUENCE5376	cMhOi056d06a1	5265
SEQUENCE5377	cMhOi036c06a2	5266
SEQUENCE5378	cMhOi069h03a1	5267
SEQUENCE5379	cMhOi056b02a1	5268
SEQUENCE5380	cMhOi036b06a2	5269
SEQUENCE5381	cMhOi029h06a1	5270
SEQUENCE5382	cMhOi046e07a1	5271
SEQUENCE5383	cMhOi079c08a1	5272
SEQUENCE5384	cMhOi036b02a2	5273
SEQUENCE5385	cMhOi028f12a1	5274
SEQUENCE5386	cMhOi045h09a1	5275
SEQUENCE5387	cMhOi073d06a1	5276
SEQUENCE5388	cMhOi020b12a1	5277
SEQUENCE5389	cMhOi045g07a1	5278
SEQUENCE5390	cMhOi019g03a1	5279
SEQUENCE5391	cMhOi005h07a1	5280
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SEQUENCE5394	cMhOi054a02a1	5283
SEQUENCE5395	cMhOi003d07a1	5284
SEQUENCE5396	cMhOi079a11a1	5285
SEQUENCE5397	cMhOi004e08a1	5286
SEQUENCE5398	cMhOi049f03a1	5287
SEQUENCE5399	cMhOi002d03a1	5288
SEQUENCE5400	cMhOi078h12a1	5289
SEQUENCE5401	cMhOi004a03a1	5290
SEQUENCE5402	cMhOi049d02a1	5291
SEQUENCE5403	cMhOi001f01a1	5292
SEQUENCE5404	cMhOi001a03a1	5293
SEQUENCE5405	cMhOi078h03a1	5294
SEQUENCE5406	cMhOi003f04a1	5295
SEQUENCE5407	cMhOi023f04a2	5296
SEQUENCE5408	cMhOi001b03a1	5297
SEQUENCE5409	cMhOi047b11a3	5298
SEQUENCE5410	cMhOi010f01a1	5299

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SEQUENCE5411	cMhOi072a08a1	5300
SEQUENCE5412	cMhOi078d07a1	5301
SEQUENCE5413	cMhOi007h07a1	5302
SEQUENCE5414	cMhOi023e01a2	5303
SEQUENCE5415	cMhOi044c12a1	5304
SEQUENCE5416	cMhOi046g04a1	5305
SEQUENCE5417	cMhOi010c08a1	5306
SEQUENCE5418	cMhOi017d09a1	5307
SEQUENCE5419	cMhOi071g05a1	5308
SEQUENCE5420	cMhOi007c08a1	5309
SEQUENCE5421	cMhOi023a11a2	5310
SEQUENCE5422	cMhOi071b10a1	5311
SEQUENCE5423	cMhOi010a05a1	5312
SEQUENCE5424	cMhOi080e08a1	5313
SEQUENCE5425	cMhOi015c08a1	5314
SEQUENCE5426	cMhOi008b07a1	5315
SEQUENCE5427	cMhOi070g12a1	5316
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SEQUENCE5433	cMhOi013d09a1	5322
SEQUENCE5434	cMhOi040h12a2	5323
SEQUENCE5435	cMhOi024e07a2	5324
SEQUENCE5436	cMhOi009g03a1	5325
SEQUENCE5437	cMhOi040c07a2	5326
SEQUENCE5438	cMhOi042c10a1	5327
SEQUENCE5439	cMhOi081c11a1	5328
SEQUENCE5440	cMhOi024a05a2	5329
SEQUENCE5441	cMhOi040b06a2	5330
SEQUENCE5442	cMhOi080g09a1	5331
SEQUENCE5443	cMhOi030g11a1	5332
SEQUENCE5444	cMhOi068c03a1	5333
SEQUENCE5445	cMhOi080f10a1	5334
SEQUENCE5446	cMhOi055h03a1	5335
SEQUENCE5447	cMhOi030e07a1	5336
SEQUENCE5448	cMhOi007a01a1	5337
SEQUENCE5449	cMhOi067h05a1	5338
SEQUENCE5450	cMhOi080f01a1	5339
SEQUENCE5451	cMhOi055f04a1	5340
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SEQUENCE5453	cMhOi054f03a1	5342
SEQUENCE5454	cMhOi060g05a2	5343
SEQUENCE5455	cMhOi055b07a1	5344
SEQUENCE5456	cMhOi030a04a1	5345
SEQUENCE5457	cMhOi054b06a1	5346
SEQUENCE5458	cMhOi001a05a1	5347
SEQUENCE5459	cMhOi074a09a1	5348
SEQUENCE5460	cMhOi025h07a2	5349
SEQUENCE5461	cMhOi041f04a2	5350
SEQUENCE5462	cMhOi025d11a2	5351
SEQUENCE5463	cMhOi041b01a2	5352

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SEQUENCE5464	cMhOi019c06a1	5353
SEQUENCE5465	cMhOi009g04a1	5354
SEQUENCE5466	cMhOi044a10a1	5355
SEQUENCE5467	cMhOi017g03a1	5356
SEQUENCE5468	cMhOi003e04a1	5357
SEQUENCE5469	cMhOi017d10a1	5358
SEQUENCE5470	cMhOi073c01a1	5359
SEQUENCE5471	cMhOi012h10a1	5360
SEQUENCE5472	cMhOi010g07a1	5361
SEQUENCE5473	cMhOi073b01a1	5362
SEQUENCE5474	cMhOi001a04a1	5363
SEQUENCE5475	cMhOi012c05a1	5364
SEQUENCE5476	cMhOi031h06a1	5365
SEQUENCE5477	cMhOi043d11a3	5366
SEQUENCE5478	cMhOi041h05a2	5367
SEQUENCE5479	cMhOi031g03a1	5368
SEQUENCE5480	cMhOi060h06a2	5369
SEQUENCE5481	cMhOi001b11a1	5370
SEQUENCE5482	cMhOi031f01a1	5371
SEQUENCE5483	cMhOi068g01a1	5372
SEQUENCE5484	cMhOi014a06a1	5373
SEQUENCE5485	cMhOi034b01a1	5374
SEQUENCE5486	cMhOi075e02a2	5375
SEQUENCE5487	cMhOi013f02a1	5376
SEQUENCE5488	cMhOi074f02a1	5377
SEQUENCE5489	cMhOi034a07a1	5378
SEQUENCE5490	cMhOi013e04a1	5379
SEQUENCE5491	cMhOi025e12a2	5380
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SEQUENCE5493	cMhOi039d01a2	5382
SEQUENCE5494	cMhOi033d04a1	5383
SEQUENCE5495	cMhOi038f12a2	5384
SEQUENCE5496	cMhOi032c02a1	5385
SEQUENCE5497	cMhOi044c02a1	5386
SEQUENCE5498	cMhOi036g08a2	5387
SEQUENCE5499	cMhOi038e01a2	5388
SEQUENCE5500	cMhOi077h10a1	5389
SEQUENCE5501	cMhOi036d12a2	5390
SEQUENCE5502	cMhOi037e08a1	5391
SEQUENCE5503	cMhOi073c03a1	5392
SEQUENCE5504	cMhOi027g08a1	5393
SEQUENCE5505	cMhOi037a02a1	5394
SEQUENCE5506	cMhOi075b02a2	5395
SEQUENCE5507	cMhOi026e05a1	5396
SEQUENCE5508	cMhOi045a01a1	5397
SEQUENCE5509	cMhOi044g10a1	5398
SEQUENCE5510	cMhOi069g01a1	5399
SEQUENCE5511	cMhOi044f11a1	5400
SEQUENCE5512	cMhOi042a10a1	5401
SEQUENCE5513	cMhOi014e01a1	5402
SEQUENCE5514	cMhOi044e01a1	5403
SEQUENCE5515	cMhOi079f08a1	5404
SEQUENCE5516	cMhOi068g06a1	5405

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SEQUENCE5517	cMhOi035h03a1	5406
SEQUENCE5518	cMhOi078c06a1	5407
SEQUENCE5519	cMhOi014d08a1	5408
SEQUENCE5520	cMhOi079d05a1	5409
SEQUENCE5521	cMhOi035d01a1	5410
SEQUENCE5522	cMhOi077d12a1	5411
SEQUENCE5523	cMhOi014c08a1	5412
SEQUENCE5524	cMhOi045f05a1	5413
SEQUENCE5525	cMhOi078a12a1	5414
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SEQUENCE5527	cMhOi075g03a2	5416
SEQUENCE5528	cMhOi014b10a1	5417
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SEQUENCE5533	cMhOi022b12a2	5422
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SEQUENCE5536	cMhOi045c05a1	5425
SEQUENCE5537	cMhOi043f06a3	5426
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SEQUENCE5539	cMhOi070b09a1	5428
SEQUENCE5540	cMhOi008f01a1	5429
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SEQUENCE5547	cMhOi036b03a2	5436
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SEQUENCE5550	cMhOi028c04a1	5439
SEQUENCE5551	cMhOi021d03a1	5440
SEQUENCE5552	cMhOi045g11a1	5441
SEQUENCE5553	cMhOi073d03a1	5442
SEQUENCE5554	cMhOi019g05a1	5443
SEQUENCE5555	cMhOi006d09a1	5444
SEQUENCE5556	cMhOi045g05a1	5445
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SEQUENCE5559	cMhOi060e05a2	5448
SEQUENCE5560	cMhOi004f02a1	5449
SEQUENCE5561	cMhOi049g10a1	5450
SEQUENCE5562	cMhOi002f05a1	5451
SEQUENCE5563	cMhOi079a04a1	5452
SEQUENCE5564	cMhOi004a10a1	5453
SEQUENCE5565	cMhOi049e06a1	5454
SEQUENCE5566	cMhOi001g12a1	5455
SEQUENCE5567	cMhOi078h05a1	5456
SEQUENCE5568	cMhOi003g11a1	5457
SEQUENCE5569	cMhOi023f09a2	5458

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SEQUENCE5570	cMhOi047e07a3	5459
SEQUENCE5571	cMhOi072b03a1	5460
SEQUENCE5572	cMhOi078g09a1	5461
SEQUENCE5573	cMhOi007h11a1	5462
SEQUENCE5574	cMhOi023e05a2	5463
SEQUENCE5575	cMhOi047a09a3	5464
SEQUENCE5576	cMhOi021e06a1	5465
SEQUENCE5577	cMhOi010c11a1	5466
SEQUENCE5578	cMhOi071h02a1	5467
SEQUENCE5579	cMhOi007h05a1	5468
SEQUENCE5580	cMhOi023c01a2	5469
SEQUENCE5581	cMhOi071f06a1	5470
SEQUENCE5582	cMhOi010b09a1	5471
SEQUENCE5583	cMhOi017d04a1	5472
SEQUENCE5584	cMhOi080b12a1	5473
SEQUENCE5585	cMhOi071b03a1	5474
SEQUENCE5586	cMhOi022h09a2	5475
SEQUENCE5587	cMhOi019d03a1	5476
SEQUENCE5588	cMhOi014g02a1	5477
SEQUENCE5589	cMhOi080a12a1	5478
SEQUENCE5590	cMhOi060g12a2	5479
SEQUENCE5591	cMhOi054h03a1	5480
SEQUENCE5592	cMhOi070d10a1	5481
SEQUENCE5593	cMhOi024h02a2	5482
SEQUENCE5594	cMhOi013b12a1	5483
SEQUENCE5595	cMhOi040e12a2	5484
SEQUENCE5596	cMhOi042d09a1	5485
SEQUENCE5597	cMhOi024c08a2	5486
SEQUENCE5598	cMhOi040b12a2	5487
SEQUENCE5599	cMhOi081a03a1	5488
SEQUENCE5600	cMhOi023h04a2	5489
SEQUENCE5601	cMhOi031c07a1	5490
SEQUENCE5602	cMhOi068f03a1	5491
SEQUENCE5603	cMhOi040a06a2	5492
SEQUENCE5604	cMhOi080f12a1	5493
SEQUENCE5605	cMhOi030g02a1	5494
SEQUENCE5606	cMhOi068b10a1	5495
SEQUENCE5607	cMhOi080f03a1	5496
SEQUENCE5608	cMhOi055g08a1	5497
SEQUENCE5609	cMhOi030d11a1	5498
SEQUENCE5610	cMhOi006d10a1	5499
SEQUENCE5611	cMhOi067d08a1	5500
SEQUENCE5612	cMhOi001c06a1	5501
SEQUENCE5613	cMhOi055e08a1	5502
SEQUENCE5614	cMhOi030b03a1	5503
SEQUENCE5615	cMhOi054b08a1	5504
SEQUENCE5616	cMhOi074b08a1	5505
SEQUENCE5617	cMhOi054h08a1	5506
SEQUENCE5618	cMhOi026a03a1	5507
SEQUENCE5619	cMhOi073f07a1	5508
SEQUENCE5620	cMhOi025e05a2	5509
SEQUENCE5621	cMhOi031h11a1	5510
SEQUENCE5622	cMhOi041c05a2	5511

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SEQUENCE5623	cMhOi009h05a1	5512
SEQUENCE5624	cMhOi025b11a2	5513
SEQUENCE5625	cMhOi019a03a1	5514
SEQUENCE5626	cMhOi079b07a1	5515
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SEQUENCE5628	cMhOi017e05a1	5517
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SEQUENCE5631	cMhOi073b04a1	5520
SEQUENCE5632	cMhOi012g10a1	5521
SEQUENCE5633	cMhOi001b04a1	5522
SEQUENCE5634	cMhOi010f03a1	5523
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SEQUENCE5644	cMhOj100g07a1	5532
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SEQUENCE5658	cMhOj108h11a1	5546
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SEQUENCE5661	cMhOj107a10a1	5549
SEQUENCE5663	cMhOj052d11a1	5550
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SEQUENCE5665	cMhOj094e09a1	5552
SEQUENCE5666	cMhOj084d09a1	5553
SEQUENCE5667	cMhOj056h03a1	5554
SEQUENCE5668	cMhOj077c05a1	5555
SEQUENCE5669	cMhOj087f01a1	5556
SEQUENCE5670	cMhOj076c05a1	5557
SEQUENCE5671	cMhOj062h04a1	5558
SEQUENCE5672	cMhOj094b01a1	5559
SEQUENCE5673	cMhOj036b11a1	5560
SEQUENCE5674	cMhOj045b10a1	5561
SEQUENCE5676	cMhOj098e11a1	5562
SEQUENCE5677	cMhOj073h03a1	5563
SEQUENCE5678	cMhOj060e01a1	5564

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SEQUENCE5680	cMhOj093h08a1	5566
SEQUENCE5681	cMhOj095b12a1	5567
SEQUENCE5682	cMhOj059a10a1	5568
SEQUENCE5683	cMhOj034c07a1	5569
SEQUENCE5684	cMhOj057a07a1	5570
SEQUENCE5685	cMhOj013f11a1	5571
SEQUENCE5686	cMhOj071d07a1	5572
SEQUENCE5687	cMhOj110e10a1	5573
SEQUENCE5688	cMhOj068b11a1	5574
SEQUENCE5689	cMhOj064h11a1	5575
SEQUENCE5690	cMhOj053f04a1	5576
SEQUENCE5691	cMhOj038h03a1	5577
SEQUENCE5692	cMhOj076h08a1	5578
SEQUENCE5693	cMhOj017e05a1	5579
SEQUENCE5694	cMhOj098b03a1	5580
SEQUENCE5695	cMhOj043c04a1	5581
SEQUENCE5696	cMhOj093e11a1	5582
SEQUENCE5697	cMhOj111c04a1	5583
SEQUENCE5698	cMhOj092g10a1	5584
SEQUENCE5699	cMhOj049c05a1	5585
SEQUENCE5700	cMhOj107h05a1	5586
SEQUENCE5701	cMhOj017h06a1	5587
SEQUENCE5702	cMhOj063g09a1	5588
SEQUENCE5703	cMhOj105e11a1	5589
SEQUENCE5704	cMhOj084a03a1	5590
SEQUENCE5705	cMhOj060d04a1	5591
SEQUENCE5706	cMhOj085h08a1	5592
SEQUENCE5707	cMhOj060g12a1	5593
SEQUENCE5708	cMhOj090a09a1	5594
SEQUENCE5709	cMhOj058g01a1	5595
SEQUENCE5710	cMhOj096e05a1	5596
SEQUENCE5711	cMhOj018e08a1	5597
SEQUENCE5712	cMhOj042c05a1	5598
SEQUENCE5713	cMhOj034h05a1	5599
SEQUENCE5714	cMhOj074e09a1	5600
SEQUENCE5715	cMhOj064d09a1	5601
SEQUENCE5716	cMhOj072b11a1	5602
SEQUENCE5717	cMhOj047b09a1	5603
SEQUENCE5718	cMhOj058d01a1	5604
SEQUENCE5719	cMhOj075e01a1	5605
SEQUENCE5720	cMhOj078f12a1	5606
SEQUENCE5721	cMhOj023c10a1	5607
SEQUENCE5722	cMhOj043c01a1	5608
SEQUENCE5723	cMhOj051b02a1	5609
SEQUENCE5724	cMhOj067h11a1	5610
SEQUENCE5725	cMhOj052g09a1	5611
SEQUENCE5726	cMhOj046e05a1	5612
SEQUENCE5727	cMhOj036f06a1	5613
SEQUENCE5728	cMhOj054h12a1	5614
SEQUENCE5729	cMhOj093b04a1	5615
SEQUENCE5730	cMhOj022g07a1	5616
SEQUENCE5732	cMhOj048e02a1	5617

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SEQUENCE5733	cMhOj049e10a1	5618
SEQUENCE5734	cMhOj007g01a1	5619
SEQUENCE5735	cMhOj080b10a1	5620
SEQUENCE5736	cMhOj071a08a1	5621
SEQUENCE5737	cMhOj083d05a1	5622
SEQUENCE5738	cMhOj059h03a1	5623
SEQUENCE5739	cMhOj061d11a1	5624
SEQUENCE5740	cMhOj045f08a1	5625
SEQUENCE5741	cMhOj060b03a1	5626
SEQUENCE5742	cMhOj048a08a1	5627
SEQUENCE5743	cMhOj075d08a1	5628
SEQUENCE5744	cMhOj088f02a1	5629
SEQUENCE5745	cMhOj054d05a1	5630
SEQUENCE5746	cMhOj096h01a1	5631
SEQUENCE5747	cMhOj042h11a1	5632
SEQUENCE5748	cMhOj062f09a1	5633
SEQUENCE5749	cMhOj099d10a1	5634
SEQUENCE5750	cMhOj079d05a1	5635
SEQUENCE5751	cMhOj096f09a1	5636
SEQUENCE5752	cMhOj100d08a1	5637
SEQUENCE5753	cMhOj070f02a1	5638
SEQUENCE5754	cMhOj087g11a1	5639
SEQUENCE5755	cMhOj071g08a1	5640
SEQUENCE5756	cMhOj063b10a1	5641
SEQUENCE5757	cMhOj038g01a1	5642
SEQUENCE5758	cMhOj081f03a1	5643
SEQUENCE5759	cMhOj085d10a1	5644
SEQUENCE5760	cMhOj113c05a1	5645
SEQUENCE5761	cMhOj043g06a1	5646
SEQUENCE5762	cMhOj018f11a1	5647
SEQUENCE5763	cMhOj102f04a1	5648
SEQUENCE5764	cMhOj041e02a1	5649
SEQUENCE5765	cMhOj054c04a1	5650
SEQUENCE5766	cMhOj090c11a1	5651
SEQUENCE5767	cMhOj091d07a1	5652
SEQUENCE5768	cMhOj059d02a1	5653
SEQUENCE5769	cMhOj100h03a1	5654
SEQUENCE5770	cMhOj112g04a1	5655
SEQUENCE5771	cMhOj067c02a1	5656
SEQUENCE5772	cMhOj109c01a1	5657
SEQUENCE5773	cMhOj046f08a1	5658
SEQUENCE5774	cMhOj054a03a1	5659
SEQUENCE5775	cMhOj087e12a1	5660
SEQUENCE5776	cMhOj104a06a1	5661
SEQUENCE5777	cMhOj057c09a1	5662
SEQUENCE5778	cMhOj098g05a1	5663
SEQUENCE5779	cMhOj091h06a1	5664
SEQUENCE5780	cMhOj109a03a1	5665
SEQUENCE5781	cMhOj010d11a1	5666
SEQUENCE5782	cMhOj098d07a1	5667
SEQUENCE5783	cMhOj107b06a1	5668
SEQUENCE5784	cMhOj102c09a1	5669
SEQUENCE5785	cMhOj052g01a1	5670

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SEQUENCE5786	cMhOj037g12a1	5671
SEQUENCE5787	cMhOj084e04a1	5672
SEQUENCE5788	cMhOj109c06a1	5673
SEQUENCE5789	cMhOj071b05a1	5674
SEQUENCE5790	cMhOj105a01a1	5675
SEQUENCE5791	cMhOj076g05a1	5676
SEQUENCE5792	cMhOj079a10a1	5677
SEQUENCE5793	cMhOj061e05a1	5678
SEQUENCE5794	cMhOj036c03a1	5679
SEQUENCE5795	cMhOj040h11a1	5680
SEQUENCE5796	cMhOj084c06a1	5681
SEQUENCE5797	cMhOj072a09a1	5682
SEQUENCE5798	cMhOj018b08a1	5683
SEQUENCE5799	cMhOj060e03a1	5684
SEQUENCE5800	cMhOj007e10a2	5685
SEQUENCE5801	cMhOj094a11a1	5686
SEQUENCE5802	cMhOj084b07a1	5687
SEQUENCE5803	cMhOj061a11a1	5688
SEQUENCE5804	cMhOj059b04a1	5689
SEQUENCE5805	cMhOj095d07a1	5690
SEQUENCE5806	cMhOj034c09a1	5691
SEQUENCE5807	cMhOj081b10a1	5692
SEQUENCE5808	cMhOj101c03a1	5693
SEQUENCE5809	cMhOj071e03a1	5694
SEQUENCE5810	cMhOj109e12a1	5695
SEQUENCE5811	cMhOj079f12a1	5696
SEQUENCE5812	cMhOj065b06a1	5697
SEQUENCE5814	cMhOj040c08a1	5698
SEQUENCE5815	cMhOj077f09a1	5699
SEQUENCE5816	cMhOj043d04a1	5700
SEQUENCE5817	cMhOj111d06a1	5701
SEQUENCE5818	cMhOj092g12a1	5702
SEQUENCE5819	cMhOj108a05a1	5703
SEQUENCE5820	cMhOj045f09a1	5704
SEQUENCE5821	cMhOj064c12a1	5705
SEQUENCE5822	cMhOj105e12a1	5706
SEQUENCE5823	cMhOj111g09a1	5707
SEQUENCE5824	cMhOj036h02a1	5708
SEQUENCE5825	cMhOj086c01a1	5709
SEQUENCE5826	cMhOj058a02a1	5710
SEQUENCE5828	cMhOj060h07a1	5711
SEQUENCE5829	cMhOj104b11a1	5712
SEQUENCE5830	cMhOj059a09a1	5713
SEQUENCE5831	cMhOj081a10a1	5714
SEQUENCE5832	cMhOj018e09a1	5715
SEQUENCE5833	cMhOj035a07a1	5716
SEQUENCE5834	cMhOj074e11a1	5717
SEQUENCE5835	cMhOj071g12a1	5718
SEQUENCE5836	cMhOj080f12a1	5719
SEQUENCE5837	cMhOj072f12a1	5720
SEQUENCE5838	cMhOj101g05a1	5721
SEQUENCE5839	cMhOj077c09a1	5722
SEQUENCE5840	cMhOj047b10a1	5723

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SEQUENCE5841	cMhOj075e04a1	5724
SEQUENCE5842	cMhOj059h09a1	5725
SEQUENCE5843	cMhOj023d09a1	5726
SEQUENCE5844	cMhOj043c02a1	5727
SEQUENCE5845	cMhOj013b10a1	5728
SEQUENCE5846	cMhOj109h06a1	5729
SEQUENCE5847	cMhOj052a11a1	5730
SEQUENCE5848	cMhOj068a01a1	5731
SEQUENCE5849	cMhOj053b08a1	5732
SEQUENCE5850	cMhOj046e09a1	5733
SEQUENCE5851	cMhOj098a04a1	5734
SEQUENCE5852	cMhOj071a02a1	5735
SEQUENCE5853	cMhOj035g11a1	5736
SEQUENCE5854	cMhOj056c07a1	5737
SEQUENCE5855	cMhOj093c05a1	5738
SEQUENCE5856	cMhOj110f11a1	5739
SEQUENCE5857	cMhOj022h03a1	5740
SEQUENCE5858	cMhOj046c08a1	5741
SEQUENCE5859	cMhOj088a02a1	5742
SEQUENCE5860	cMhOj092f09a1	5743
SEQUENCE5861	cMhOj047f06a1	5744
SEQUENCE5862	cMhOj048e12a1	5745
SEQUENCE5863	cMhOj042f02a1	5746
SEQUENCE5864	cMhOj076h12a1	5747
SEQUENCE5865	cMhOj085g07a1	5748
SEQUENCE5866	cMhOj049f06a1	5749
SEQUENCE5867	cMhOj057h04a1	5750
SEQUENCE5868	cMhOj017e12a1	5751
SEQUENCE5869	cMhOj007h12a2	5752
SEQUENCE5870	cMhOj046a09a1	5753
SEQUENCE5871	cMhOj018d08a1	5754
SEQUENCE5872	cMhOj093f10a1	5755
SEQUENCE5873	cMhOj083d08a1	5756
SEQUENCE5874	cMhOj003c08a2	5757
SEQUENCE5875	cMhOj071b04a1	5758
SEQUENCE5876	cMhOj060b09a1	5759
SEQUENCE5877	cMhOj048b07a1	5760
SEQUENCE5878	cMhOj075d12a1	5761
SEQUENCE5879	cMhOj089a10a1	5762
SEQUENCE5880	cMhOj043a07a1	5763
SEQUENCE5881	cMhOj081c12a1	5764
SEQUENCE5882	cMhOj109g07a1	5765
SEQUENCE5883	cMhOj113a05a1	5766
SEQUENCE5884	cMhOj099e03a1	5767
SEQUENCE5885	cMhOj090e08a1	5768
SEQUENCE5886	cMhOj070g01a1	5769
SEQUENCE5887	cMhOj100d11a1	5770
SEQUENCE5888	cMhOj047a01a1	5771
SEQUENCE5889	cMhOj101a02a1	5772
SEQUENCE5890	cMhOj063c01a1	5773
SEQUENCE5891	cMhOj067c12a1	5774
SEQUENCE5892	cMhOj081f04a1	5775
SEQUENCE5893	cMhOj085e11a1	5776

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SEQUENCE5894	cMhOj054g02a1	5777
SEQUENCE5895	cMhOj037d09a1	5778
SEQUENCE5896	cMhOj045g05a1	5779
SEQUENCE5897	cMhOj043h04a1	5780
SEQUENCE5898	cMhOj100e04a1	5781
SEQUENCE5899	cMhOj060e05a1	5782
SEQUENCE5900	cMhOj018g02a1	5783
SEQUENCE5901	cMhOj102g05a1	5784
SEQUENCE5902	cMhOj104d11a1	5785
SEQUENCE5903	cMhOj041g02a1	5786
SEQUENCE5904	cMhOj073h06a1	5787
SEQUENCE5905	cMhOj101d06a1	5788
SEQUENCE5906	cMhOj075f12a1	5789
SEQUENCE5907	cMhOj082d07a1	5790
SEQUENCE5908	cMhOj059d08a1	5791
SEQUENCE5909	cMhOj112h04a1	5792
SEQUENCE5910	cMhOj070c10a1	5793
SEQUENCE5911	cMhOj109c05a1	5794
SEQUENCE5912	cMhOj046f09a1	5795
SEQUENCE5913	cMhOj104b08a1	5796
SEQUENCE5914	cMhOj044d09a1	5797
SEQUENCE5915	cMhOj037f12a1	5798
SEQUENCE5916	cMhOj062d09a1	5799
SEQUENCE5917	cMhOj057d11a1	5800
SEQUENCE5918	cMhOj099b06a1	5801
SEQUENCE5919	cMhOj101g01a1	5802
SEQUENCE5920	cMhOj092a02a1	5803
SEQUENCE5921	cMhOj036b02a1	5804
SEQUENCE5922	cMhOj054e10a1	5805
SEQUENCE5923	cMhOj010f04a1	5806
SEQUENCE5924	cMhOj098d10a1	5807
SEQUENCE5925	cMhOj052g08a1	5808
SEQUENCE5926	cMhOj038b08a1	5809
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SEQUENCE5928	cMhOj085c02a1	5811
SEQUENCE5930	cMhOj071c06a1	5812
SEQUENCE5931	cMhOj060a05a1	5813
SEQUENCE5932	cMhOj105b10a1	5814
SEQUENCE5933	cMhOj111d08a1	5815
SEQUENCE5934	cMhOj003f08a2	5816
SEQUENCE5935	cMhOj061e07a1	5817
SEQUENCE5936	cMhOj036c06a1	5818
SEQUENCE5937	cMhOj041a05a1	5819
SEQUENCE5938	cMhOj113e05a1	5820
SEQUENCE5939	cMhOj100a08a1	5821
SEQUENCE5940	cMhOj016d06a1	5822
SEQUENCE5941	cMhOj084c01a1	5823
SEQUENCE5942	cMhOj098a07a1	5824
SEQUENCE5943	cMhOj059c02a1	5825
SEQUENCE5944	cMhOj096a07a1	5826
SEQUENCE5945	cMhOj034f08a1	5827
SEQUENCE5946	cMhOj071e04a1	5828
SEQUENCE5947	cMhOj079g01a1	5829

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SEQUENCE5948	cMhOj065d02a1	5830
SEQUENCE5949	cMhOj109a05a1	5831
SEQUENCE5950	cMhOj053f06a1	5832
SEQUENCE5951	cMhOj040d11a1	5833
SEQUENCE5952	cMhOj081b07a1	5834
SEQUENCE5953	cMhOj077h06a1	5835
SEQUENCE5954	cMhOj061f08a1	5836
SEQUENCE5955	cMhOj111f08a1	5837
SEQUENCE5956	cMhOj090d12a1	5838
SEQUENCE5957	cMhOj043d08a1	5839
SEQUENCE5958	cMhOj092h09a1	5840
SEQUENCE5959	cMhOj108a12a1	5841
SEQUENCE5960	cMhOj104g08a1	5842
SEQUENCE5961	cMhOj079b04a1	5843
SEQUENCE5962	cMhOj064d01a1	5844
SEQUENCE5963	cMhOj105f05a1	5845
SEQUENCE5964	cMhOj111h01a1	5846
SEQUENCE5965	cMhOj037b02a1	5847
SEQUENCE5966	cMhOj077b08a1	5848
SEQUENCE5967	cMhOj086h12a1	5849
SEQUENCE5968	cMhOj058b03a1	5850
SEQUENCE5969	cMhOj016c12a1	5851
SEQUENCE5970	cMhOj060h11a1	5852
SEQUENCE5971	cMhOj104c02a1	5853
SEQUENCE5972	cMhOj046e03a1	5854
SEQUENCE5973	cMhOj018e12a1	5855
SEQUENCE5974	cMhOj035c02a1	5856
SEQUENCE5975	cMhOj071h07a1	5857
SEQUENCE5976	cMhOj081a03a1	5858
SEQUENCE5977	cMhOj073d03a1	5859
SEQUENCE5978	cMhOj003h01a2	5860
SEQUENCE5979	cMhOj077e04a1	5861
SEQUENCE5980	cMhOj047d09a1	5862
SEQUENCE5981	cMhOj094f12a1	5863
SEQUENCE5982	cMhOj060a02a1	5864
SEQUENCE5983	cMhOj075e06a1	5865
SEQUENCE5985	cMhOj056h06a1	5866
SEQUENCE5986	cMhOj013e01a1	5867
SEQUENCE5987	cMhOj081g10a1	5868
SEQUENCE5988	cMhOj110b11a1	5869
SEQUENCE5989	cMhOj057e02a1	5870
SEQUENCE5990	cMhOj068a07a1	5871
SEQUENCE5991	cMhOj048c10a1	5872
SEQUENCE5992	cMhOj053d12a1	5873
SEQUENCE5993	cMhOj046f05a1	5874
SEQUENCE5994	cMhOj071a06a1	5875
SEQUENCE5995	cMhOj094d08a1	5876
SEQUENCE5996	cMhOj056f01a1	5877
SEQUENCE5997	cMhOj093c07a1	5878
SEQUENCE5998	cMhOj110h10a1	5879
SEQUENCE5999	cMhOj092g01a1	5880
SEQUENCE6000	cMhOj075h05a1	5881
SEQUENCE6001	cMhOj048f10a1	5882

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SEQUENCE6002	cMhOj042g09a1	5883
SEQUENCE6003	cMhOj077a12a1	5884
SEQUENCE6004	cMhOj058a01a1	5885
SEQUENCE6005	cMhOj017g03a1	5886
SEQUENCE6006	cMhOj063d08a1	5887
SEQUENCE6007	cMhOj009d12a1	5888
SEQUENCE6008	cMhOj105b11a1	5889
SEQUENCE6009	cMhOj046b10a1	5890
SEQUENCE6010	cMhOj093f12a1	5891
SEQUENCE6011	cMhOj083g04a1	5892
SEQUENCE6012	cMhOj061f01a1	5893
SEQUENCE6013	cMhOj060b11a1	5894
SEQUENCE6014	cMhOj089b03a1	5895
SEQUENCE6015	cMhOj049d01a1	5896
SEQUENCE6016	cMhOj109h03a1	5897
SEQUENCE6017	cMhOj113b01a1	5898
SEQUENCE6018	cMhOj099g07a1	5899
SEQUENCE6019	cMhOj090f07a1	5900
SEQUENCE6020	cMhOj100e01a1	5901
SEQUENCE6021	cMhOj070g12a1	5902
SEQUENCE6022	cMhOj047a04a1	5903
SEQUENCE6023	cMhOj045a06a1	5904
SEQUENCE6024	cMhOj050c12a1	5905
SEQUENCE6025	cMhOj067d02a1	5906
SEQUENCE6026	cMhOj074f06a1	5907
SEQUENCE6027	cMhOj096f06a1	5908
SEQUENCE6028	cMhOj111e01a1	5909
SEQUENCE6029	cMhOj085g06a1	5910
SEQUENCE6030	cMhOj042d02a1	5911
SEQUENCE6031	cMhOj036e01a1	5912
SEQUENCE6032	cMhOj054g05a1	5913
SEQUENCE6033	cMhOj018d06a1	5914
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SEQUENCE6035	cMhOj060e09a1	5916
SEQUENCE6036	cMhOj018h10a1	5917
SEQUENCE6037	cMhOj052b12a1	5918
SEQUENCE6038	cMhOj104e06a1	5919
SEQUENCE6039	cMhOj041g05a1	5920
SEQUENCE6040	cMhOj069g01a1	5921
SEQUENCE6041	cMhOj074c05a1	5922
SEQUENCE6042	cMhOj079h09a1	5923
SEQUENCE6043	cMhOj083c08a1	5924
SEQUENCE6044	cMhOj059e05a1	5925
SEQUENCE6045	cMhOj112h05a1	5926
SEQUENCE6046	cMhOj023c01a1	5927
SEQUENCE6047	cMhOj090e01a1	5928
SEQUENCE6048	cMhOj046g05a1	5929
SEQUENCE6049	cMhOj104b09a1	5930
SEQUENCE6050	cMhOj044e04a1	5931
SEQUENCE6051	cMhOj062e05a1	5932
SEQUENCE6052	cMhOj081g11a1	5933
SEQUENCE6053	cMhOj099b11a1	5934
SEQUENCE6054	cMhOj101g02a1	5935

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SEQUENCE6055	cMhOj092b01a1	5936
SEQUENCE6056	cMhOj061e03a1	5937
SEQUENCE6057	cMhOj054f03a1	5938
SEQUENCE6058	cMhOj037d01a1	5939
SEQUENCE6059	cMhOj062c05a1	5940
SEQUENCE6060	cMhOj010f11a1	5941
SEQUENCE6061	cMhOj040g08a1	5942
SEQUENCE6062	cMhOj104c11a1	5943
SEQUENCE6063	cMhOj038c02a1	5944
SEQUENCE6064	cMhOj068g12a1	5945
SEQUENCE6065	cMhOj085c06a1	5946
SEQUENCE6066	cMhOj109d10a1	5947
SEQUENCE6067	cMhOj060a07a1	5948
SEQUENCE6068	cMhOj082a03a1	5949
SEQUENCE6069	cMhOj041c03a1	5950
SEQUENCE6070	cMhOj100c10a1	5951
SEQUENCE6071	cMhOj044c03a1	5952
SEQUENCE6072	cMhOj017a12a1	5953
SEQUENCE6073	cMhOj045h09a1	5954
SEQUENCE6074	cMhOj058d04a1	5955
SEQUENCE6075	cMhOj091b03a1	5956
SEQUENCE6076	cMhOj059c05a1	5957
SEQUENCE6077	cMhOj037e01a1	5958
SEQUENCE6078	cMhOj098a08a1	5959
SEQUENCE6079	cMhOj096a10a1	5960
SEQUENCE6080	cMhOj034g04a1	5961
SEQUENCE6081	cMhOj071f12a1	5962
SEQUENCE6082	cMhOj111h04a1	5963
SEQUENCE6083	cMhOj065g02a1	5964
SEQUENCE6084	cMhOj101f12a1	5965
SEQUENCE6085	cMhOj053h03a1	5966
SEQUENCE6086	cMhOj109b06a1	5967
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SEQUENCE6090	cMhOj057a12a1	5971
SEQUENCE6091	cMhOj043e03a1	5972
SEQUENCE6092	cMhOj091e04a1	5973
SEQUENCE6093	cMhOj108c05a1	5974
SEQUENCE6094	cMhOj079b06a1	5975
SEQUENCE6095	cMhOj098b07a1	5976
SEQUENCE6096	cMhOj107a03a1	5977
SEQUENCE6097	cMhOj054a05a1	5978
SEQUENCE6098	cMhOj070b05a1	5979
SEQUENCE6099	cMhOj094e07a1	5980
SEQUENCE6100	cMhOj056h02a1	5981
SEQUENCE6101	cMhOj077b10a1	5982
SEQUENCE6102	cMhOj058c04a1	5983
SEQUENCE6103	cMhOj016d02a1	5984
SEQUENCE6104	cMhOj062g10a1	5985
SEQUENCE6105	cMhOj035f09a1	5986
SEQUENCE6106	cMhOj045a10a1	5987
SEQUENCE6107	cMhOj072a03a1	5988

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SEQUENCE6108	cMhOj073f10a1	5989
SEQUENCE6109	cMhOj060d06a1	5990
SEQUENCE6110	cMhOj003h04a2	5991
SEQUENCE6111	cMhOj075a06a1	5992
SEQUENCE6112	cMhOj047f05a1	5993
SEQUENCE6113	cMhOj111e09a1	5994
SEQUENCE6114	cMhOj095b03a1	5995
SEQUENCE6115	cMhOj075f07a1	5996
SEQUENCE6116	cMhOj034a12a1	5997
SEQUENCE6117	cMhOj042d04a1	5998
SEQUENCE6118	cMhOj056h09a1	5999
SEQUENCE6119	cMhOj013e12a1	6000
SEQUENCE6120	cMhOj110b12a1	6001
SEQUENCE6121	cMhOj057e05a1	6002
SEQUENCE6122	cMhOj068b01a1	6003
SEQUENCE6123	cMhOj064h07a1	6004
SEQUENCE6124	cMhOj053e02a1	6005
SEQUENCE6125	cMhOj038g12a1	6006
SEQUENCE6126	cMhOj076h01a1	6007
SEQUENCE6127	cMhOj084c10a1	6008
SEQUENCE6128	cMhOj056f05a1	6009
SEQUENCE6129	cMhOj093d07a1	6010
SEQUENCE6130	cMhOj111c02a1	6011
SEQUENCE6131	cMhOj092g05a1	6012
SEQUENCE6132	cMhOj076a03a1	6013
SEQUENCE6133	cMhOj049a08a1	6014
SEQUENCE6134	cMhOj077b02a1	6015
SEQUENCE6135	cMhOj107g08a1	6016
SEQUENCE6136	cMhOj017h05a1	6017
SEQUENCE6137	cMhOj063f01a1	6018
SEQUENCE6138	cMhOj105c01a1	6019
SEQUENCE6139	cMhOj093h04a1	6020
SEQUENCE6140	cMhOj083g06a1	6021
SEQUENCE6141	cMhOj061f07a1	6022
SEQUENCE6142	cMhOj081h08a1	6023
SEQUENCE6143	cMhOj060c11a1	6024
SEQUENCE6144	cMhOj060g10a1	6025
SEQUENCE6145	cMhOj089f11a1	6026
SEQUENCE6146	cMhOj042c04a1	6027
SEQUENCE6148	cMhOj090g03a1	6028
SEQUENCE6149	cMhOj100e03a1	6029
SEQUENCE6150	cMhOj087a11a1	6030
SEQUENCE6151	cMhOj047a05a1	6031
SEQUENCE6152	cMhOj050g11a1	6032
SEQUENCE6153	cMhOj067e02a1	6033
SEQUENCE6154	cMhOj036e02a1	6034
SEQUENCE6155	cMhOj054g06a1	6035
SEQUENCE6156	cMhOj101g07a1	6036
SEQUENCE6157	cMhOj052d10a1	6037
SEQUENCE6158	cMhOj022b09a1	6038
SEQUENCE6159	cMhOj048d11a1	6039
SEQUENCE6160	cMhOj069g06a1	6040
SEQUENCE6161	cMhOj007f08a2	6041

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SEQUENCE6162	cMhOj080a11a1	6042
SEQUENCE6163	cMhOj083d01a1	6043
SEQUENCE6164	cMhOj059f10a1	6044
SEQUENCE6165	cMhOj023c09a1	6045
SEQUENCE6166	cMhOj047h02a1	6046
SEQUENCE6167	cMhOj075a12a1	6047
SEQUENCE6168	cMhOj088c02a1	6048
SEQUENCE6169	cMhOj096f10a1	6049
SEQUENCE6170	cMhOj044h01a1	6050
SEQUENCE6171	cMhOj068b12a1	6051
SEQUENCE6172	cMhOj062e07a1	6052
SEQUENCE6173	cMhOj049f09a1	6053
SEQUENCE6174	cMhOj099c07a1	6054
SEQUENCE6175	cMhOj093a08a1	6055
SEQUENCE6176	cMhOj096c06a1	6056
SEQUENCE6177	cMhOj100c12a1	6057
SEQUENCE6178	cMhOj087g04a1	6058
SEQUENCE6179	cMhOj092d11a1	6059
SEQUENCE6180	cMhOj062d03a1	6060
SEQUENCE6181	cMhOj018c04a1	6061
SEQUENCE6182	cMhOj049e07a1	6062
SEQUENCE6183	cMhOj063a05a1	6063
SEQUENCE6184	cMhOj100a04a1	6064
SEQUENCE6185	cMhOj040g11a1	6065
SEQUENCE6186	cMhOj038e07a1	6066
SEQUENCE6187	cMhOj069c09a1	6067
SEQUENCE6188	cMhOj081e07a1	6068
SEQUENCE6189	cMhOj085c11a1	6069
SEQUENCE6190	cMhOj062c02a1	6070
SEQUENCE6191	cMhOj078c02a1	6071
SEQUENCE6192	cMhOj060a12a1	6072
SEQUENCE6193	cMhOj043e10a1	6073
SEQUENCE6194	cMhOj107e11a1	6074
SEQUENCE6195	cMhOj054c09a1	6075
SEQUENCE6196	cMhOj101b05a1	6076
SEQUENCE6197	cMhOj041d02a1	6077
SEQUENCE6198	cMhOk101g07a1	6078
SEQUENCE6199	cMhOk017b01a2	6079
SEQUENCE6200	cMhOk089g05a1	6080
SEQUENCE6201	cMhOk109b10a2	6081
SEQUENCE6202	cMhOk076b03a1	6082
SEQUENCE6203	cMhOk095e12a1	6083
SEQUENCE6204	cMhOk057g04a1	6084
SEQUENCE6205	cMhOk072a11a1	6085
SEQUENCE6206	cMhOk080c01a1	6086
SEQUENCE6207	cMhOk070a10a2	6087
SEQUENCE6208	cMhOk090b10a1	6088
SEQUENCE6209	cMhOk040h07a1	6089
SEQUENCE6210	cMhOk091a01a1	6090
SEQUENCE6211	cMhOk038h08a2	6091
SEQUENCE6212	cMhOk082d07a1	6092
SEQUENCE6213	cMhOk102a10a1	6093
SEQUENCE6214	cMhOk017b07a2	6094

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SEQUENCE6215	cMhOk076d03a1	6095
SEQUENCE6216	cMhOk032f06a2	6096
SEQUENCE6217	cMhOk072b03a1	6097
SEQUENCE6218	cMhOk080c04a1	6098
SEQUENCE6219	cMhOk070f06a2	6099
SEQUENCE6220	cMhOk003g07a3	6100
SEQUENCE6221	cMhOk055d08a2	6101
SEQUENCE6222	cMhOk090c05a1	6102
SEQUENCE6223	cMhOk042a09a2	6103
SEQUENCE6224	cMhOk084b03a1	6104
SEQUENCE6225	cMhOk102e01a1	6105
SEQUENCE6226	cMhOk017e01a2	6106
SEQUENCE6227	cMhOk076e06a1	6107
SEQUENCE6228	cMhOk079c03a1	6108
SEQUENCE6229	cMhOk089a04a1	6109
SEQUENCE6230	cMhOk091a06a1	6110
SEQUENCE6231	cMhOk073a05a1	6111
SEQUENCE6232	cMhOk003h04a3	6112
SEQUENCE6233	cMhOk055h07a2	6113
SEQUENCE6234	cMhOk090c12a1	6114
SEQUENCE6235	cMhOk042b12a2	6115
SEQUENCE6236	cMhOk084d04a1	6116
SEQUENCE6237	cMhOk047e12a2	6117
SEQUENCE6238	cMhOk032d01a2	6118
SEQUENCE6239	cMhOk098d12a1	6119
SEQUENCE6240	cMhOk076h04a1	6120
SEQUENCE6241	cMhOk097d03a1	6121
SEQUENCE6242	cMhOk079d05a1	6122
SEQUENCE6243	cMhOk089d06a1	6123
SEQUENCE6244	cMhOk073d04a1	6124
SEQUENCE6245	cMhOk092f05a1	6125
SEQUENCE6246	cMhOk005a06a2	6126
SEQUENCE6247	cMhOk055h11a2	6127
SEQUENCE6248	cMhOk082e10a1	6128
SEQUENCE6249	cMhOk090d06a1	6129
SEQUENCE6250	cMhOk042c04a2	6130
SEQUENCE6251	cMhOk086g02a1	6131
SEQUENCE6252	cMhOk049g07a2	6132
SEQUENCE6253	cMhOk002b08a2	6133
SEQUENCE6254	cMhOk099a03a1	6134
SEQUENCE6255	cMhOk064f04a1	6135
SEQUENCE6256	cMhOk079g07a1	6136
SEQUENCE6257	cMhOk070g09a2	6137
SEQUENCE6258	cMhOk089d07a1	6138
SEQUENCE6259	cMhOk073d10a1	6139
SEQUENCE6260	cMhOk093c11a1	6140
SEQUENCE6261	cMhOk005f04a2	6141
SEQUENCE6262	cMhOk057a11a1	6142
SEQUENCE6263	cMhOk082g07a1	6143
SEQUENCE6264	cMhOk090g07a1	6144
SEQUENCE6265	cMhOk087a03a1	6145
SEQUENCE6266	cMhOk049h09a2	6146
SEQUENCE6267	cMhOk002b12a2	6147

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SEQUENCE6268	cMhOk099c03a1	6148
SEQUENCE6269	cMhOk065b08a1	6149
SEQUENCE6270	cMhOk070h10a2	6150
SEQUENCE6271	cMhOk060e01a3	6151
SEQUENCE6272	cMhOk083d02a1	6152
SEQUENCE6273	cMhOk032d07a2	6153
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SEQUENCE6276	cMhOk088b11a1	6156
SEQUENCE6277	cMhOk050e04a2	6157
SEQUENCE6278	cMhOk097e11a1	6158
SEQUENCE6279	cMhOk054a08a1	6159
SEQUENCE6280	cMhOk065c05a1	6160
SEQUENCE6281	cMhOk046a03a2	6161
SEQUENCE6282	cMhOk060g04a3	6162
SEQUENCE6283	cMhOk101b04a1	6163
SEQUENCE6284	cMhOk108f07a2	6164
SEQUENCE6285	cMhOk083e08a1	6165
SEQUENCE6286	cMhOk037g02a2	6166
SEQUENCE6287	cMhOk032e09a2	6167
SEQUENCE6288	cMhOk032b12a2	6168
SEQUENCE6289	cMhOk082c05a1	6169
SEQUENCE6290	cMhOk005h04a2	6170
SEQUENCE6291	cMhOk052a03a2	6171
SEQUENCE6292	cMhOk088g06a1	6172
SEQUENCE6293	cMhOk097f02a1	6173
SEQUENCE6294	cMhOk011g11a1	6174
SEQUENCE6295	cMhOk080b01a1	6175
SEQUENCE6296	cMhOk066c04a2	6176
SEQUENCE6297	cMhOk079a07a1	6177
SEQUENCE6298	cMhOk046c09a2	6178
SEQUENCE6299	cMhOk065g05a1	6179
SEQUENCE6300	cMhOk099h03a1	6180
SEQUENCE6301	cMhOk062a12a3	6181
SEQUENCE6302	cMhOk055c02a2	6182
SEQUENCE6303	cMhOk101b08a1	6183
SEQUENCE6304	cMhOk083h08a1	6184
SEQUENCE6305	cMhOk037h04a2	6185
SEQUENCE6306	cMhOk016c11a1	6186
SEQUENCE6307	cMhOk032c04a2	6187
SEQUENCE6308	cMhOk100c06a1	6188
SEQUENCE6309	cMhOk052a09a2	6189
SEQUENCE6310	cMhOk010c05a1	6190
SEQUENCE6311	cMhOk097h08a1	6191
SEQUENCE6312	cMhOk066g07a2	6192
SEQUENCE6313	cMhOk023d08a1	6193
SEQUENCE6314	cMhOk079c02a1	6194
SEQUENCE6315	cMhOk047b04a2	6195
SEQUENCE6316	cMhOk106h06a2	6196
SEQUENCE6317	cMhOk063b09a3	6197
SEQUENCE6318	cMhOk089g09a1	6198
SEQUENCE6319	cMhOk097c03a1	6199
SEQUENCE6320	cMhOk032h02a2	6200

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SEQUENCE6321	cMhOk014a09a1	6201
SEQUENCE6322	cMhOk095f06a1	6202
SEQUENCE6323	cMhOk038a08a2	6203
SEQUENCE6324	cMhOk016d04a1	6204
SEQUENCE6325	cMhOk059c08a1	6205
SEQUENCE6326	cMhOk032c11a2	6206
SEQUENCE6327	cMhOk052a10a2	6207
SEQUENCE6328	cMhOk100e11a1	6208
SEQUENCE6329	cMhOk098a01a1	6209
SEQUENCE6330	cMhOk101c01a1	6210
SEQUENCE6331	cMhOk067a12a1	6211
SEQUENCE6332	cMhOk030a09a5	6212
SEQUENCE6333	cMhOk080f07a1	6213
SEQUENCE6334	cMhOk064b02a1	6214
SEQUENCE6335	cMhOk089h05a1	6215
SEQUENCE6336	cMhOk035e07a3	6216
SEQUENCE6337	cMhOk014b01a1	6217
SEQUENCE6338	cMhOk089a01a1	6218
SEQUENCE6339	cMhOk095h09a1	6219
SEQUENCE6340	cMhOk101c08a1	6220
SEQUENCE6341	cMhOk052e03a2	6221
SEQUENCE6342	cMhOk067e10a1	6222
SEQUENCE6343	cMhOk030c12a5	6223
SEQUENCE6344	cMhOk043e10a2	6224
SEQUENCE6345	cMhOk091f12a1	6225
SEQUENCE6346	cMhOk059d10a1	6226
SEQUENCE6347	cMhOk081c07a1	6227
SEQUENCE6348	cMhOk017g05a2	6228
SEQUENCE6349	cMhOk089h10a1	6229
SEQUENCE6350	cMhOk037a12a2	6230
SEQUENCE6351	cMhOk039f02a1	6231
SEQUENCE6352	cMhOk096a03a1	6232
SEQUENCE6353	cMhOk101c09a1	6233
SEQUENCE6354	cMhOk052g07a2	6234
SEQUENCE6355	cMhOk108c01a2	6235
SEQUENCE6356	cMhOk045b10a2	6236
SEQUENCE6357	cMhOk030d04a5	6237
SEQUENCE6358	cMhOk066b12a2	6238
SEQUENCE6359	cMhOk092f02a1	6239
SEQUENCE6360	cMhOk060c06a3	6240
SEQUENCE6361	cMhOk081h04a1	6241
SEQUENCE6362	cMhOk018e08a2	6242
SEQUENCE6363	cMhOk100f05a1	6243
SEQUENCE6364	cMhOk105f04a2	6244
SEQUENCE6365	cMhOk039f07a1	6245
SEQUENCE6366	cMhOk037b03a2	6246
SEQUENCE6367	cMhOk096d10a1	6247
SEQUENCE6368	cMhOk043a05a2	6248
SEQUENCE6369	cMhOk100e04a1	6249
SEQUENCE6370	cMhOk101f12a1	6250
SEQUENCE6371	cMhOk053f04a2	6251
SEQUENCE6372	cMhOk010h09a1	6252
SEQUENCE6373	cMhOk108c06a2	6253

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SEQUENCE6374	cMhOk045f12a2	6254
SEQUENCE6375	cMhOk099d09a1	6255
SEQUENCE6377	cMhOk023a01a1	6256
SEQUENCE6378	cMhOk100g03a1	6257
SEQUENCE6379	cMhOk106b05a2	6258
SEQUENCE6380	cMhOk037c11a2	6259
SEQUENCE6381	cMhOk039g08a1	6260
SEQUENCE6382	cMhOk096e03a1	6261
SEQUENCE6383	cMhOk101g05a1	6262
SEQUENCE6384	cMhOk100e05a1	6263
SEQUENCE6385	cMhOk016d07a1	6264
SEQUENCE6386	cMhOk089f12a1	6265
SEQUENCE6387	cMhOk011b01a1	6266
SEQUENCE6388	cMhOk073g02a1	6267
SEQUENCE6389	cMhOk095a06a1	6268
SEQUENCE6390	cMhOk014b12a1	6269
SEQUENCE6391	cMhOk057d01a1	6270
SEQUENCE6392	cMhOk071c12a2	6271
SEQUENCE6393	cMhOk099e03a1	6272
SEQUENCE6394	cMhOk069h09a2	6273
SEQUENCE6395	cMhOk023d01a1	6274
SEQUENCE6396	cMhOk106g11a2	6275
SEQUENCE6397	cMhOk040c08a1	6276
SEQUENCE6398	cMhOk090h05a1	6277
SEQUENCE49	johOa010f07t2,	6278 by blast
SEQUENCE74	johOa027g04t1,	6279
SEQUENCE81	johOa019e10t1,	6280
SEQUENCE102	johOa053g05t1,	6281
SEQUENCE127	johOa047b12t1,	6282
SEQUENCE149	johOb012e03t1,	6283
SEQUENCE151	johOb007c03t2,	6284
SEQUENCE191	johOc006f10t1,	6285
SEQUENCE266	fohOc008g03s1,	6286
SEQUENCE304	johOd065d11a2,	6287
SEQUENCE319	johOd015e05t2,	6288
SEQUENCE505	johOe034f01a1,	6289
SEQUENCE602	johOe007e05a2,	6290
SEQUENCE657	johOf030b01a1,	6291
SEQUENCE727	johOf065d04a1,	6292
SEQUENCE741	johOf067d10a1,	6293
SEQUENCE751	fohOf057b10c1,	6294
SEQUENCE792	johOf097g11a1,	6295
SEQUENCE871	johOf040f10a1,	6296
SEQUENCE941	johOa015h08t1,	6297
SEQUENCE948	johOa009g12t2,	6298
SEQUENCE1033	johOb001f12t1,	6299
SEQUENCE1045	johOb004f01t1,	6300
SEQUENCE1067	johOb018c09t1,	6301
SEQUENCE1213	johOd054g05a1,	6302
SEQUENCE1238	johOd063c11a2,	6303
SEQUENCE1372	johOe019g08a1,	6304
SEQUENCE1394	johOe036c09a1,	6305
SEQUENCE1441	fohOf032d07b1,	6306

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SEQUENCE1458	cMhqse025a10a2,	6307
SEQUENCE1489	johOf065b06a1,	6308
SEQUENCE1565	johOfReA003g09a1	6309
SEQUENCE1602	johOf058f11a1,	6310
SEQUENCE1635	johOa004d05t1,	6311
SEQUENCE1669	johOa009d09t2,	6312
SEQUENCE1684	johOa010h04t2,	6313
SEQUENCE1691	johOa012d07t1,	6314
SEQUENCE1729	jThtf142a10t1,	6315
SEQUENCE1734	johOa019h04t1,	6316
SEQUENCE1751	fohOa025g04t2,	6317
SEQUENCE1765	johOa029c06t1,	6318
SEQUENCE1767	johOa029f08t1,	6319
SEQUENCE1814	johOa053a03t1,	6320
SEQUENCE1962	johOb023e10t1,	6321
SEQUENCE2065	johOd001d10b1,	6322
SEQUENCE2077		6323
SEQUENCE2083	johOd002h12b1,	6324
SEQUENCE2118	johOd037c07a1,	6325
SEQUENCE2169	johOd063g05a2,	6326
SEQUENCE2197	johOd083h05a1,	6327
SEQUENCE2307	fohOe008e07a1,	6328
SEQUENCE2352	johOe015e04a1,	6329
SEQUENCE2382	johOe022f12a1,	6330
SEQUENCE2528		6331
SEQUENCE2554	johOf018c09a1,	6332
SEQUENCE2577	johOf021c01a2,	6333
SEQUENCE2642	johOf030d10a1,	6334
SEQUENCE2761	johOf071h12a1,	6335
SEQUENCE2774	johOf074h12a1,	6336
SEQUENCE2809	johOf088d03a1,	6337
SEQUENCE2870	johOfReA003f04a1,	6338
SEQUENCE3001	cMhOh033b04a1,	6339
SEQUENCE3072	cbhdd014e01b1,	6340
SEQUENCE3078	cMhOh013h08a1,	6341
SEQUENCE3120	cMhOh122d01a2,	6342
SEQUENCE3274	cMhOh021g04a1,	6343
SEQUENCE3290	cMhOh115a08a2,	6344
SEQUENCE3300	cMhOh017f02a2,	6345
SEQUENCE3382	cMhOi027g01a1,	6346
SEQUENCE3441,SEQUENCE3492	cMhOi017a03a1,	6347
SEQUENCE3454	aqxXjThzc1104a07t	6348
SEQUENCE3537	cMhOj054b04a1,	6349
SEQUENCE3650	cMhOj075d01a1,	6350
SEQUENCE3692	cMhOj041g03a1,	6351
SEQUENCE3702	cMhOj096h03a1,	6352
SEQUENCE3777	cMhOk037g06a2,	6353
SEQUENCE3785	cMhOk095b12a1,	6354
SEQUENCE3873	cMhOg008c01a1,	6355
SEQUENCE4062	cMhOh025d07a1,	6356
SEQUENCE4078	cMhOi023e04a2,	6357
SEQUENCE4241	cMhOj069c10a1,	6358
SEQUENCE4249	cMhOj073h12a1,	6359

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SEQUENCE4410	cMhOk078g04a1,	6360
SEQUENCE4489	cMhOg009b06a1,	6361
SEQUENCE4511	cMhOg051e10a1,	6362
SEQUENCE4574	cMhOg018f02a1,	6363
SEQUENCE4581	cMhOg041g03a1,	6364
SEQUENCE4712	cMhOh041a12a1,	6365
SEQUENCE4728	jthKa009g01t2,	6366
SEQUENCE4873		6367
SEQUENCE4894	cMhOh088b02a2,	6368
SEQUENCE4912	cMhOh015h07a2,	6369
SEQUENCE4944	cMhOh119e04a2,	6370
SEQUENCE4995	cMhOh098h10a2,	6371
SEQUENCE5126	cMhqse010h07a1,	6372
SEQUENCE5161	cMhOh012d06a2,	6373
SEQUENCE5169	jbrodII049a06a1,	6374
SEQUENCE5188	cMhOh113a05a2,	6375
SEQUENCE5202	cMhOh106d10a2,	6376
SEQUENCE5637	cMhOi031h05a1,	6377
SEQUENCE5662	cMhOj101h05a1,	6378
SEQUENCE5675	cMhOj072a07a1,	6379
SEQUENCE5731	cMhOj092e05a1,	6380
SEQUENCE5813	cMhOj053f05a1,	6381
SEQUENCE5827	cMhOs012r1e07a1,	6382
SEQUENCE5929	cMhOj109c07a1,	6383
SEQUENCE5984	cMhOj023h10a1,	6384
SEQUENCE6147	cMhOj074d04a1,	6385
SEQUENCE6376	cMhOk069d01a2,	6386
SEQUENCE2	johOa001c08t2	6387 phred calls
SEQUENCE3	johOa003c08t1	6388
SEQUENCE4	johOa003d09t1	6389
SEQUENCE5	johOa003e07t1	6390
SEQUENCE6	johOa003f05t1	6391
SEQUENCE7	johOa003e11t1	6392
SEQUENCE8	johOa003h05t1	6393
SEQUENCE9	johOa003a06t1	6394
SEQUENCE10	johOa003h11t1	6395
SEQUENCE11	johOa003c02t1	6396
SEQUENCE12	johOa003a05t1	6397
SEQUENCE13	johOa016g01t1	6398
SEQUENCE14	johOa013h01t1	6399
SEQUENCE15	johOa004f09t1	6400
SEQUENCE16	johOa004g09t1	6401
SEQUENCE17	johOa004h09t1	6402
SEQUENCE18	johOa004h07t1	6403
SEQUENCE19	johOa011e01t1	6404
SEQUENCE20	johOa012g09t1	6405
SEQUENCE21	johOa012h09t1	6406
SEQUENCE22	johOa002g12t1	6407
SEQUENCE23	johOa012a03t1	6408
SEQUENCE24	johOa012b09t1	6409
SEQUENCE25	johOa012c09t1	6410
SEQUENCE26	johOa002f02t1	6411
SEQUENCE27	johOa002g05t1	6412

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SEQUENCE28	johOa002a06t1	6413
SEQUENCE29	johOa002b02t1	6414
SEQUENCE30	johOa011b12t1	6415
SEQUENCE31	johOa011c12t1	6416
SEQUENCE32	johOa011d10t1	6417
SEQUENCE33	johOa013c10t1	6418
SEQUENCE34	johOa013c11t1	6419
SEQUENCE35	johOa013e05t1	6420
SEQUENCE36	johOa013c06t1	6421
SEQUENCE37	johOa014b10t1	6422
SEQUENCE38	johOa014e07t1	6423
SEQUENCE39	johOa015f06t1	6424
SEQUENCE40	johOa015c03t1	6425
SEQUENCE41	johOa016a02t1	6426
SEQUENCE42	johOa005b04t2	6427
SEQUENCE43	johOa005c04t2	6428
SEQUENCE44	johOa010b04t2	6429
SEQUENCE45	johOa010b09t2	6430
SEQUENCE46	johOa009b12t2	6431
SEQUENCE47	johOa010c07t2	6432
SEQUENCE48	johOa006e11t2	6433
SEQUENCE50	johOa007g08t2	6434
SEQUENCE51	johOa006g12t2	6435
SEQUENCE52	johOa010g07t2	6436
SEQUENCE53	johOa009c02t2	6437
SEQUENCE54	johOa007c09t2	6438
SEQUENCE55	johOa009g08t2	6439
SEQUENCE56	johOa007c03t2	6440
SEQUENCE57	johOa007e04t2	6441
SEQUENCE58	johOa007g03t2	6442
SEQUENCE59	johOa005d10t2	6443
SEQUENCE60	johOa005f11t2	6444
SEQUENCE61	johOa005a11t2	6445
SEQUENCE62	johOa005f06t2	6446
SEQUENCE63	johOa006f03t2	6447
SEQUENCE64	johOa005g08t2	6448
SEQUENCE65	johOa005c09t2	6449
SEQUENCE66	johOa031b11t1	6450
SEQUENCE67	johOa029h05t1	6451
SEQUENCE68	johOa029h02t1	6452
SEQUENCE69	johOa030e03t1	6453
SEQUENCE70	johOa028g11t1	6454
SEQUENCE71	johOa029h11t1	6455
SEQUENCE72	johOa028c01t1	6456
SEQUENCE73	johOa027a03t1	6457
SEQUENCE75	johOa025g12t1	6458
SEQUENCE76	johOa024h01t1	6459
SEQUENCE77	johOa025d01t1	6460
SEQUENCE78	johOa068d01t1	6461
SEQUENCE79	johOa019g07t1	6462
SEQUENCE80	johOa018b06t1	6463
SEQUENCE82	johOa019f08t1	6464
SEQUENCE83	johOa019a08t1	6465

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SEQUENCE84	johOa018d05t1	6466
SEQUENCE85	johOa019e04t1	6467
SEQUENCE86	johOa020h06t1	6468
SEQUENCE87	johOa020d02t1	6469
SEQUENCE88	johOa038h03t1	6470
SEQUENCE89	johOa031e12t1	6471
SEQUENCE90	johOa037b03t1	6472
SEQUENCE91	johOa040e12t1	6473
SEQUENCE92	johOa058b09t1	6474
SEQUENCE93	johOa040g12t1	6475
SEQUENCE94	johOa058g11t1	6476
SEQUENCE95	johOa039a05t1	6477
SEQUENCE96	johOa039d03t1	6478
SEQUENCE97	johOa057c03t1	6479
SEQUENCE98	johOa057a05t1	6480
SEQUENCE99	johOa053e09t1	6481
SEQUENCE100	johOa052f07t1	6482
SEQUENCE101	johOa053h07t1	6483
SEQUENCE103	johOa051c06t1	6484
SEQUENCE104	johOa052d02t1	6485
SEQUENCE105	johOa060h11t1	6486
SEQUENCE106	johOa051e09t1	6487
SEQUENCE107	johOa060g02t1	6488
SEQUENCE108	johOa051f02t1	6489
SEQUENCE109	johOa050f09t1	6490
SEQUENCE110	johOa060h10t1	6491
SEQUENCE111	johOa050e09t1	6492
SEQUENCE112	johOa048g11t1	6493
SEQUENCE113	johOa049f09t1	6494
SEQUENCE114	johOa048c06t1	6495
SEQUENCE115	johOa045c04t1	6496
SEQUENCE116	johOa056a08t1	6497
SEQUENCE117	johOa056a06t1	6498
SEQUENCE118	johOa054c06t1	6499
SEQUENCE119	johOa056g05t1	6500
SEQUENCE120	johOa056b05t1	6501
SEQUENCE121	johOa070d02t1	6502
SEQUENCE122	johOa067b08t1	6503
SEQUENCE123	johOa067b05t1	6504
SEQUENCE124	johOa067e04t1	6505
SEQUENCE125	johOa070a09t1	6506
SEQUENCE126	johOa070h07t1	6507
SEQUENCE128	johOa068g02t1	6508
SEQUENCE129	johOa068a12t1	6509
SEQUENCE130	johOb001a08t1	6510
SEQUENCE131	johOb001g08t1	6511
SEQUENCE132	johOb003b08t1	6512
SEQUENCE133	johOb003h01t1	6513
SEQUENCE134	johOb003a01t1	6514
SEQUENCE135	johOb004g10t1	6515
SEQUENCE136	johOb002f07t1	6516
SEQUENCE137	johOb002g01t1	6517
SEQUENCE138	johOb011f11t1	6518

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SEQUENCE139	johOb005f11t1	6519
SEQUENCE140	johOb005a06t1	6520
SEQUENCE141	johOb005h04t1	6521
SEQUENCE142	johOb011c02t1	6522
SEQUENCE143	johOb005b08t1	6523
SEQUENCE144	johOb012b11t1	6524
SEQUENCE145	johOb008h11t1	6525
SEQUENCE146	johOb012g09t1	6526
SEQUENCE147	johOb012g08t1	6527
SEQUENCE148	johOb008a02t1	6528
SEQUENCE150	johOb013d06t1	6529
SEQUENCE152	johOb007g05t2	6530
SEQUENCE153	johOb013b02t1	6531
SEQUENCE154	johOb010d03t1	6532
SEQUENCE155	johOb010d01t1	6533
SEQUENCE156	johOb016e05t1	6534
SEQUENCE157	johOb022e06t1	6535
SEQUENCE158	johOb022b02t1	6536
SEQUENCE159	johOb018b04t1	6537
SEQUENCE160	johOb025a08t1	6538
SEQUENCE161	johOb025h03t1	6539
SEQUENCE162	johOb025c07t1	6540
SEQUENCE163	johOb025f01t1	6541
SEQUENCE164	johOb020e03t1	6542
SEQUENCE165	johOb023b09t1	6543
SEQUENCE166	johOb023g10t1	6544
SEQUENCE167	johOb019b02t1	6545
SEQUENCE168	johOb023g02t1	6546
SEQUENCE169	johOb017b09t1	6547
SEQUENCE170	johOb017h03t1	6548
SEQUENCE171	johOb017g05t1	6549
SEQUENCE172	johOb019e02t1	6550
SEQUENCE173	johOb015a06t1	6551
SEQUENCE174	johOb015a02t1	6552
SEQUENCE175	johOb014g03t1	6553
SEQUENCE176	johOb014f12t1	6554
SEQUENCE177	johOb014e08t1	6555
SEQUENCE178	johOc001f09t1	6556
SEQUENCE179	johOc001e09t1	6557
SEQUENCE180	johOc001b09t1	6558
SEQUENCE181	johOc001f07t1	6559
SEQUENCE182	johOc001e04t1	6560
SEQUENCE183	johOc001f01t1	6561
SEQUENCE184	johOc001c11t1	6562
SEQUENCE185	johOc001h10t1	6563
SEQUENCE186	johOc001d09t1	6564
SEQUENCE187	johOc001c07t1	6565
SEQUENCE188	johOc001g06t1	6566
SEQUENCE189	johOc001d05t1	6567
SEQUENCE190	johOc001e01t1	6568
SEQUENCE192	johOc006a09t1	6569
SEQUENCE193	johOc006d03t1	6570
SEQUENCE194	johOc006d11t1	6571

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SEQUENCE195	johOc006c08t1	6572
SEQUENCE196	johOc004h09t1	6573
SEQUENCE197	johOc004e07t1	6574
SEQUENCE198	johOc004h06t1	6575
SEQUENCE199	johOc006b03t1	6576
SEQUENCE200	johOc007f12t1	6577
SEQUENCE201	johOc004e05t1	6578
SEQUENCE202	johOc005g08t1	6579
SEQUENCE203	johOc005f12t1	6580
SEQUENCE204	johOc005b10t1	6581
SEQUENCE205	johOc005f07t1	6582
SEQUENCE206	johOc003h09t1	6583
SEQUENCE207	johOc003b07t1	6584
SEQUENCE208	johOc003e09t1	6585
SEQUENCE209	johOc003f04t1	6586
SEQUENCE210	johOc003f03t1	6587
SEQUENCE211	johOc005b03t1	6588
SEQUENCE212	johOc005b05t1	6589
SEQUENCE213	johOc005a03t1	6590
SEQUENCE214	johOc007a12t1	6591
SEQUENCE215	johOc007g06t1	6592
SEQUENCE216	johOc007c12t1	6593
SEQUENCE217	johOc007g11t1	6594
SEQUENCE218	johOc007h06t1	6595
SEQUENCE219	johOc007d03t1	6596
SEQUENCE220	johOc016d08t1	6597
SEQUENCE221	johOc016c07t1	6598
SEQUENCE222	johOc016g07t1	6599
SEQUENCE223	johOc016f04t1	6600
SEQUENCE224	johOc016d03t1	6601
SEQUENCE225	johOc016f09t1	6602
SEQUENCE226	johOc016d01t1	6603
SEQUENCE227	johOc013h12t1	6604
SEQUENCE228	johOc013e01t1	6605
SEQUENCE229	johOc014c10t1	6606
SEQUENCE230	johOc014c12t1	6607
SEQUENCE231	johOc014d09t1	6608
SEQUENCE232	johOc014g08t1	6609
SEQUENCE233	johOc014e04t1	6610
SEQUENCE234	johOc014f02t1	6611
SEQUENCE235	johOc002b04t1	6612
SEQUENCE236	johOc002c03t1	6613
SEQUENCE237	johOc002a04t1	6614
SEQUENCE238	johOc015c11t1	6615
SEQUENCE239	johOc015f10t1	6616
SEQUENCE240	johOc015c06t1	6617
SEQUENCE241	johOc015f04t1	6618
SEQUENCE242	johOc008g11t1	6619
SEQUENCE243	johOc008f11t1	6620
SEQUENCE244	johOc008h11t1	6621
SEQUENCE245	johOc010a03t1	6622
SEQUENCE246	johOc010f02t1	6623
SEQUENCE247	johOc012a08t1	6624

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SEQUENCE248	johOc011c08t1	6625
SEQUENCE249	johOc009f07t1	6626
SEQUENCE250	johOc011h03t1	6627
SEQUENCE251	johOc010e04t1	6628
SEQUENCE252	johOc012c10t1	6629
SEQUENCE253	johOc011a11t1	6630
SEQUENCE254	johOc012c08t1	6631
SEQUENCE255	johOc009b11t1	6632
SEQUENCE256	johOc011f08t1	6633
SEQUENCE257	johOc009a11t1	6634
SEQUENCE258	johOc011e08t1	6635
SEQUENCE259	johOc011f05t1	6636
SEQUENCE260	johOc012e03t1	6637
SEQUENCE261	johOc011a04t1	6638
SEQUENCE262	johOc008e05t1	6639
SEQUENCE263	johOc008h02t1	6640
SEQUENCE264	johOc010b11t1	6641
SEQUENCE265	johOc008d04t1	6642
SEQUENCE267	johOc008a01t1	6643
SEQUENCE268	johOc010a12t1	6644
SEQUENCE269	johOc010e11t1	6645
SEQUENCE270	johOd004c10b1	6646
SEQUENCE271	johOd004d06a1	6647
SEQUENCE272	johOd001f01a1	6648
SEQUENCE273	johOd001g07a1	6649
SEQUENCE274	johOd001f09b1	6650
SEQUENCE275	johOd002c10a1	6651
SEQUENCE276	johOd001c03a1	6652
SEQUENCE277	johOd001h02b1	6653
SEQUENCE278	johOd002e09a1	6654
SEQUENCE279	johOd001c03b1	6655
SEQUENCE280	johOd002d06b1	6656
SEQUENCE281	johOd003h06a1	6657
SEQUENCE282	johOd003b07b1	6658
SEQUENCE283	johOd003d04b1	6659
SEQUENCE284	johOd003h06b1	6660
SEQUENCE285	johOd005f09t1	6661
SEQUENCE286	johOd005e03t1	6662
SEQUENCE287	johOd005d02t1	6663
SEQUENCE288	johOd031h09t2	6664
SEQUENCE289	johOd031c05t2	6665
SEQUENCE290	johOd031c03t2	6666
SEQUENCE291	johOd031d01t2	6667
SEQUENCE292	johOd046f11a1	6668
SEQUENCE293	johOd054f06a1	6669
SEQUENCE294	johOd045a04a1	6670
SEQUENCE295	johOd041e05a1	6671
SEQUENCE296	johOd041a01a1	6672
SEQUENCE297	johOd057d09a1	6673
SEQUENCE298	johOd057c01a1	6674
SEQUENCE299	johOd057d10a1	6675
SEQUENCE300	johOd039e10a1	6676
SEQUENCE301	johOd056d01a1	6677

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SEQUENCE302	johOd056h10a1	6678
SEQUENCE303	johOd056c01a1	6679
SEQUENCE305	johOd053f04a2	6680
SEQUENCE306	johOd032f09a1	6681
SEQUENCE307	johOd033f05a1	6682
SEQUENCE308	johOd050h08a2	6683
SEQUENCE309	johOd049b10a2	6684
SEQUENCE310	johOd049b05a2	6685
SEQUENCE311	johOd049a06a2	6686
SEQUENCE312	johOd006f12t2	6687
SEQUENCE313	johOd006b10t2	6688
SEQUENCE314	johOd006d07t2	6689
SEQUENCE315	johOd009g04t2	6690
SEQUENCE316	johOd009a12t2	6691
SEQUENCE317	johOd016g01t2	6692
SEQUENCE318	johOd016a01t2	6693
SEQUENCE320	johOd015f01t2	6694
SEQUENCE321	johOd015h03t2	6695
SEQUENCE322	johOd015a01t2	6696
SEQUENCE323	johOd037b05a1	6697
SEQUENCE324	johOd013b03t2	6698
SEQUENCE329	johOd068b10a1	6699
SEQUENCE330	johOd072b09a1	6700
SEQUENCE331	johOd072c02a1	6701
SEQUENCE332	johOd067b12a1	6702
SEQUENCE333	johOd067g03a1	6703
SEQUENCE334	johOd072e04a1	6704
SEQUENCE335	johOd071b03a2	6705
SEQUENCE336	johOd070d04a2	6706
SEQUENCE337	johOd071d09a2	6707
SEQUENCE338	johOd073e02a2	6708
SEQUENCE339	johOd071b08a2	6709
SEQUENCE340	johOd071h04a2	6710
SEQUENCE341	johOd060d05a2	6711
SEQUENCE342	johOd062f12a2	6712
SEQUENCE343	johOd062c10a2	6713
SEQUENCE344	johOd060g08a2	6714
SEQUENCE345	johOd093g09a1	6715
SEQUENCE346	johOd093g07a1	6716
SEQUENCE347	johOd093d03a1	6717
SEQUENCE348	johOd093e01a1	6718
SEQUENCE349	johOd096a11a1	6719
SEQUENCE350	johOd096e08a1	6720
SEQUENCE351	johOd094a12a1	6721
SEQUENCE352	johOd094e08a1	6722
SEQUENCE353	johOd095h01a1	6723
SEQUENCE354	johOd095e12a1	6724
SEQUENCE355	johOd085f05a1	6725
SEQUENCE356	johOd085a02a1	6726
SEQUENCE357	johOd091b10a1	6727
SEQUENCE358	johOd091a03a1	6728
SEQUENCE359	johOd091a02a1	6729
SEQUENCE360	johOd091f02a1	6730

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SEQUENCE361	johOd090a04a1	6731
SEQUENCE362	johOd090e03a1	6732
SEQUENCE363	johOd090e01a1	6733
SEQUENCE364	johOd084a08a1	6734
SEQUENCE365	johOd083c08a1	6735
SEQUENCE366	johOd083d04a1	6736
SEQUENCE367	cMhvf078d10a1	6737
SEQUENCE368	johOd088a09a2	6738
SEQUENCE369	johOd088h12a2	6739
SEQUENCE370	johOd088h02a2	6740
SEQUENCE371	johOe001c11a1	6741
SEQUENCE372	johOe001d08a1	6742
SEQUENCE373	johOe001f07a1	6743
SEQUENCE374	johOe001d05a1	6744
SEQUENCE375	johOe001c05a1	6745
SEQUENCE376	johOe001b04a1	6746
SEQUENCE377	johOe003c11a1	6747
SEQUENCE378	johOe004e07a2	6748
SEQUENCE379	johOe004a05a2	6749
SEQUENCE380	johOe004b02a2	6750
SEQUENCE381	johOe005b12a2	6751
SEQUENCE382	johOe005c09a2	6752
SEQUENCE383	johOe005f06a2	6753
SEQUENCE384	johOe004e05a2	6754
SEQUENCE385	johOe004d04a2	6755
SEQUENCE386	johOe004h02a2	6756
SEQUENCE387	johOe005b11a2	6757
SEQUENCE388	johOe008e09a2	6758
SEQUENCE389	johOe008h08a2	6759
SEQUENCE390	johOe005c04a2	6760
SEQUENCE391	johOe005b03a2	6761
SEQUENCE392	johOe005g02a2	6762
SEQUENCE393	johOe006f11a2	6763
SEQUENCE394	johOe006h09a2	6764
SEQUENCE395	johOe011g12a2	6765
SEQUENCE396	johOe006h08a2	6766
SEQUENCE397	johOe006d08a2	6767
SEQUENCE398	johOe009b12a2	6768
SEQUENCE399	johOe006g07a2	6769
SEQUENCE400	johOe006g03a2	6770
SEQUENCE401	johOe011e06a2	6771
SEQUENCE402	johOe008b09a2	6772
SEQUENCE403	johOe006f02a2	6773
SEQUENCE404	johOe011a05a2	6774
SEQUENCE405	johOe008f08a2	6775
SEQUENCE406	johOe008f06a2	6776
SEQUENCE407	johOe005c02a2	6777
SEQUENCE408	johOe006a12a2	6778
SEQUENCE410	johOe010g01a2	6779
SEQUENCE411	johOe011e12a2	6780
SEQUENCE412	johOe009e09a2	6781
SEQUENCE413	johOe011a09a2	6782
SEQUENCE414	johOe011a06a2	6783

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SEQUENCE415	johOe009a06a2	6784
SEQUENCE416	johOe011d03a2	6785
SEQUENCE417	johOe009b03a2	6786
SEQUENCE418	johOe009e02a2	6787
SEQUENCE419	johOe009a01a2	6788
SEQUENCE420	johOe010c09a2	6789
SEQUENCE421	johOe009c07a2	6790
SEQUENCE422	johOe009f05a2	6791
SEQUENCE423	johOe009c03a2	6792
SEQUENCE424	johOe009b02a2	6793
SEQUENCE425	johOe010b12a2	6794
SEQUENCE426	johOe012e08a2	6795
SEQUENCE427	johOe012a07a2	6796
SEQUENCE428	johOe012g05a2	6797
SEQUENCE429	johOe012g02a2	6798
SEQUENCE430	johOe011h02a2	6799
SEQUENCE431	johOe011d02a2	6800
SEQUENCE432	johOe012h10a2	6801
SEQUENCE433	johOe012c10a2	6802
SEQUENCE434	johOe012g06a2	6803
SEQUENCE435	johOe008h12a2	6804
SEQUENCE436	johOe007h09a2	6805
SEQUENCE437	johOe007g10a2	6806
SEQUENCE438	johOe007e05a2	6807
SEQUENCE439	johOe007c07a2	6808
SEQUENCE440	johOe007b03a2	6809
SEQUENCE441	johOe007a09a2	6810
SEQUENCE442	johOe016c08a1	6811
SEQUENCE443	johOe016h07a1	6812
SEQUENCE444	johOe018c11a1	6813
SEQUENCE445	johOe017c06a1	6814
SEQUENCE446	johOe016g01a1	6815
SEQUENCE447	johOe017b03a1	6816
SEQUENCE448	johOe018e05a1	6817
SEQUENCE449	johOe016g11a1	6818
SEQUENCE450	johOe016a09a1	6819
SEQUENCE451	johOe018f12a1	6820
SEQUENCE452	johOe017a09a1	6821
SEQUENCE453	johOe017e08a1	6822
SEQUENCE454	johOe018b11a1	6823
SEQUENCE455	johOe016f05a1	6824
SEQUENCE456	johOe017e06a1	6825
SEQUENCE457	johOe016f04a1	6826
SEQUENCE458	johOe017g05a1	6827
SEQUENCE459	johOe018c06a1	6828
SEQUENCE460	johOe017h02a1	6829
SEQUENCE461	johOe018g02a1	6830
SEQUENCE462	johOe018f01a1	6831
SEQUENCE463	johOe014e12a1	6832
SEQUENCE464	johOe015g07a1	6833
SEQUENCE465	johOe014d05a1	6834
SEQUENCE466	johOe015f04a1	6835
SEQUENCE467	johOe015f02a1	6836

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SEQUENCE468	johOe014g05a1	6837
SEQUENCE469	johOe014g01a1	6838
SEQUENCE470	johOe015f12a1	6839
SEQUENCE471	johOe015a12a1	6840
SEQUENCE472	johOe036g01a1	6841
SEQUENCE473	johOe032e07a1	6842
SEQUENCE474	johOe035g08a1	6843
SEQUENCE475	johOe035g07a1	6844
SEQUENCE476	johOe032b02a1	6845
SEQUENCE477	johOe035b07a1	6846
SEQUENCE478	johOe019b07a1	6847
SEQUENCE479	johOe019a06a1	6848
SEQUENCE480	johOe019h05a1	6849
SEQUENCE482	johOe035e08a1	6850
SEQUENCE483	johOe035h08a1	6851
SEQUENCE484	johOe035e07a1	6852
SEQUENCE486	johOe035c05a1	6853
SEQUENCE487	johOe035c01a1	6854
SEQUENCE488	johOe034a12a1	6855
SEQUENCE489	johOe034e11a1	6856
SEQUENCE490	johOe034a11a1	6857
SEQUENCE491	johOe034g09a1	6858
SEQUENCE492	johOe034g08a1	6859
SEQUENCE493	johOe034c08a1	6860
SEQUENCE494	johOe034h07a1	6861
SEQUENCE495	johOe034d07a1	6862
SEQUENCE496	johOe034g05a1	6863
SEQUENCE497	johOe033h11a1	6864
SEQUENCE498	johOe034g03a1	6865
SEQUENCE499	johOe034h02a1	6866
SEQUENCE501	johOe033b08a1	6867
SEQUENCE502	johOe033a08a1	6868
SEQUENCE503	johOe033c07a1	6869
SEQUENCE504	johOe033g06a1	6870
SEQUENCE506	johOe035a01a1	6871
SEQUENCE507	johOe034c12a1	6872
SEQUENCE508	johOe033g05a1	6873
SEQUENCE509	johOe033d05a1	6874
SEQUENCE510	johOe034b12a1	6875
SEQUENCE511	johOe033c05a1	6876
SEQUENCE512	johOe033g04a1	6877
SEQUENCE513	johOe034f11a1	6878
SEQUENCE514	johOe033b04a1	6879
SEQUENCE515	johOe034b11a1	6880
SEQUENCE516	johOe033e03a1	6881
SEQUENCE517	johOe034b10a1	6882
SEQUENCE518	johOe034a10a1	6883
SEQUENCE519	johOe034f09a1	6884
SEQUENCE520	johOe034a09a1	6885
SEQUENCE521	johOe034a08a1	6886
SEQUENCE522	johOe032g10a1	6887
SEQUENCE523	johOe034b07a1	6888
SEQUENCE524	johOe032b10a1	6889

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SEQUENCE525	johOe034a07a1	6890
SEQUENCE526	johOe034f06a1	6891
SEQUENCE527	johOe034a06a1	6892
SEQUENCE528	johOe034f05a1	6893
SEQUENCE529	johOe033g11a1	6894
SEQUENCE530	johOe033e10a1	6895
SEQUENCE531	johOe034a04a1	6896
SEQUENCE532	johOe034e03a1	6897
SEQUENCE533	johOe034a03a1	6898
SEQUENCE534	johOe033a07a1	6899
SEQUENCE535	johOe034e01a1	6900
SEQUENCE536	johOe034b01a1	6901
SEQUENCE537	johOe033f05a1	6902
SEQUENCE538	johOe033b06a1	6903
SEQUENCE539	johOe033e05a1	6904
SEQUENCE540	johOe033b03a1	6905
SEQUENCE541	johOe033f03a1	6906
SEQUENCE542	johOe032d09a1	6907
SEQUENCE543	johOe037e01a1	6908
SEQUENCE544	johOe036a12a1	6909
SEQUENCE545	johOe036h11a1	6910
SEQUENCE546	johOe036c11a1	6911
SEQUENCE547	johOe036g10a1	6912
SEQUENCE548	johOe037g12a1	6913
SEQUENCE549	johOe036f09a1	6914
SEQUENCE550	johOe037a12a1	6915
SEQUENCE551	johOe037d11a1	6916
SEQUENCE552	johOe036d08a1	6917
SEQUENCE553	johOe037h10a1	6918
SEQUENCE554	johOe036h05a1	6919
SEQUENCE555	johOe036g05a1	6920
SEQUENCE556	johOe037c09a1	6921
SEQUENCE557	johOe037a08a1	6922
SEQUENCE558	johOe036f04a1	6923
SEQUENCE559	johOe037f06a1	6924
SEQUENCE560	johOe037b07a1	6925
SEQUENCE561	johOe037g05a1	6926
SEQUENCE562	johOe036a02a1	6927
SEQUENCE563	johOe036e02a1	6928
SEQUENCE564	johOe036e11a1	6929
SEQUENCE565	johOe036e10a1	6930
SEQUENCE566	johOe036h09a1	6931
SEQUENCE567	johOe036g09a1	6932
SEQUENCE568	johOe036b09a1	6933
SEQUENCE569	johOe037c12a1	6934
SEQUENCE570	johOe036g06a1	6935
SEQUENCE571	johOe037b10a1	6936
SEQUENCE572	johOe036h04a1	6937
SEQUENCE573	johOe037g08a1	6938
SEQUENCE574	johOe036h03a1	6939
SEQUENCE575	johOe036d03a1	6940
SEQUENCE576	johOe036h01a1	6941
SEQUENCE577	johOe037c05a1	6942

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SEQUENCE578	johOe019c12a1	6943
SEQUENCE579	johOe019a05a1	6944
SEQUENCE580	johOe019a03a1	6945
SEQUENCE581	johOe019g02a1	6946
SEQUENCE582	johOe019b02a1	6947
SEQUENCE583	johOe019f01a1	6948
SEQUENCE584	johOe019b03a1	6949
SEQUENCE585	johOe022a11a1	6950
SEQUENCE586	johOe022b12a1	6951
SEQUENCE587	johOe022f04a1	6952
SEQUENCE588	johOe022a03a1	6953
SEQUENCE589	johOe022d03a1	6954
SEQUENCE590	johOe022h02a1	6955
SEQUENCE591	johOe030c11a1	6956
SEQUENCE592	johOe031c11a1	6957
SEQUENCE593	johOe031b08a1	6958
SEQUENCE594	johOe030a05a1	6959
SEQUENCE595	johOe030f02a1	6960
SEQUENCE596	johOe028b06a1	6961
SEQUENCE597	johOe025b02a1	6962
SEQUENCE598	johOe025a03a1	6963
SEQUENCE599	johOe029b04a1	6964
SEQUENCE600	johOe029e01a1	6965
SEQUENCE601	johOe024d11a1	6966
SEQUENCE603	johOe024d07a1	6967
SEQUENCE604	johOe025f09a1	6968
SEQUENCE605	johOe025f07a1	6969
SEQUENCE606	johOe024h01a1	6970
SEQUENCE607	johOe025a06a1	6971
SEQUENCE608	johOe024g01a1	6972
SEQUENCE609	johOe038h08a1	6973
SEQUENCE610	johOe038a09a1	6974
SEQUENCE611	johOe038e02a1	6975
SEQUENCE612	johOf011g10a1	6976
SEQUENCE613	johOf013a09a1	6977
SEQUENCE614	johOf013a02a1	6978
SEQUENCE615	johOf013e12a1	6979
SEQUENCE616	johOf013g11a1	6980
SEQUENCE617	johOf013a07a1	6981
SEQUENCE618	johOf001d11b1	6982
SEQUENCE619	johOf001h08b1	6983
SEQUENCE620	johOf001c09b1	6984
SEQUENCE621	johOf001d07b1	6985
SEQUENCE622	johOf001d06b1	6986
SEQUENCE623	johOf001c04b1	6987
SEQUENCE624	johOf001f06b1	6988
SEQUENCE625	johOf012g12a1	6989
SEQUENCE626	johOf012b11a1	6990
SEQUENCE627	johOf011g01a1	6991
SEQUENCE628	johOf010h08a1	6992
SEQUENCE629	johOf010h03a1	6993
SEQUENCE630	johOf012c03a1	6994
SEQUENCE631	johOf012b03a1	6995

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SEQUENCE632	johOf012b07a1	6996
SEQUENCE633	johOf012e05a1	6997
SEQUENCE634	johOf012g04a1	6998
SEQUENCE635	johOf003c10a1	6999
SEQUENCE636	johOf006g12a1	7000
SEQUENCE637	johOf006a12a1	7001
SEQUENCE638	johOf005h10a1	7002
SEQUENCE639	johOf005b01a1	7003
SEQUENCE640	johOf002g09a1	7004
SEQUENCE641	johOf002g07a1	7005
SEQUENCE642	johOf002g05a1	7006
SEQUENCE643	johOf002d12a1	7007
SEQUENCE644	johOf007c04a1	7008
SEQUENCE645	johOf009h09a1	7009
SEQUENCE646	johOf009h05a1	7010
SEQUENCE647	johOf009g06a1	7011
SEQUENCE648	johOf009f11a1	7012
SEQUENCE649	johOf030d11a1	7013
SEQUENCE650	johOf030g04a1	7014
SEQUENCE651	johOf030b03a1	7015
SEQUENCE652	johOf032a07a1	7016
SEQUENCE653	johOf026h02a1	7017
SEQUENCE654	johOf030f02a1	7018
SEQUENCE655	johOf027f06a1	7019
SEQUENCE656	johOf030c02a1	7020
SEQUENCE658	johOf027f05a1	7021
SEQUENCE659	johOf029b06a1	7022
SEQUENCE660	johOf034e04a1	7023
SEQUENCE661	johOf033c03a1	7024
SEQUENCE662	johOf029b04a1	7025
SEQUENCE663	johOf028g03a1	7026
SEQUENCE664	johOf028e02a1	7027
SEQUENCE665	johOf028e01a1	7028
SEQUENCE666	johOf033g09a1	7029
SEQUENCE667	johOf033f09a1	7030
SEQUENCE668	johOf034d12a1	7031
SEQUENCE669	johOf033d04a1	7032
SEQUENCE670	johOf034b01a1	7033
SEQUENCE671	johOf033d03a1	7034
SEQUENCE672	johOf033h08a1	7035
SEQUENCE673	johOf028g11a1	7036
SEQUENCE674	johOf033f08a1	7037
SEQUENCE675	johOf033f07a1	7038
SEQUENCE676	johOf028d09a1	7039
SEQUENCE677	johOf032g07a1	7040
SEQUENCE678	johOf028g08a1	7041
SEQUENCE679	johOf032h03a1	7042
SEQUENCE680	johOf039a09a1	7043
SEQUENCE681	johOf038g01a1	7044
SEQUENCE682	johOf039f06a1	7045
SEQUENCE683	johOf038g09a1	7046
SEQUENCE684	johOf035f09a1	7047
SEQUENCE685	johOf035b06a1	7048

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SEQUENCE686	johOf037e04a1	7049
SEQUENCE687	johOf037e03a1	7050
SEQUENCE688	johOf035g02a1	7051
SEQUENCE689	johOf037c04a1	7052
SEQUENCE690	johOf029h12a1	7053
SEQUENCE691	johOf029h09a1	7054
SEQUENCE692	johOf029b12a1	7055
SEQUENCE693	johOf019f12a2	7056
SEQUENCE694	johOf019h10a2	7057
SEQUENCE695	johOf019c08a2	7058
SEQUENCE696	johOf019b12a2	7059
SEQUENCE697	johOf019b11a2	7060
SEQUENCE698	johOf019f09a2	7061
SEQUENCE699	johOf019g05a2	7062
SEQUENCE700	johOf037h09a1	7063
SEQUENCE701	johOf037c09a1	7064
SEQUENCE702	johOf024c05a2	7065
SEQUENCE703	johOf022e12a2	7066
SEQUENCE704	johOf022c06a2	7067
SEQUENCE705	johOf023h07a2	7068
SEQUENCE706	johOf022d01a2	7069
SEQUENCE707	johOf023d04a2	7070
SEQUENCE708	johOf022b09a2	7071
SEQUENCE709	johOf021b02a2	7072
SEQUENCE710	johOf021b01a2	7073
SEQUENCE711	johOf023a10a2	7074
SEQUENCE712	johOf022g01a2	7075
SEQUENCE713	johOf020b08a2	7076
SEQUENCE714	johOf057a07a1	7077
SEQUENCE715	johOf057f12a1	7078
SEQUENCE716	johOf057f04a1	7079
SEQUENCE717	johOf057f02a1	7080
SEQUENCE718	johOf056b06a1	7081
SEQUENCE719	johOf056b05a1	7082
SEQUENCE720	johOf056e02a1	7083
SEQUENCE721	johOf056f01a1	7084
SEQUENCE722	johOf068g02a1	7085
SEQUENCE723	johOf068a02a1	7086
SEQUENCE724	johOf068a08a1	7087
SEQUENCE725	johOf068h02a1	7088
SEQUENCE726	johOf065b05a1	7089
SEQUENCE728	johOf068f11a1	7090
SEQUENCE729	johOf065a02a1	7091
SEQUENCE730	johOf066g03a1	7092
SEQUENCE731	johOf066f11a1	7093
SEQUENCE732	johOf065e12a1	7094
SEQUENCE733	johOf069f10a1	7095
SEQUENCE734	johOf065c07a1	7096
SEQUENCE735	johOf069c12a1	7097
SEQUENCE736	johOf067f10a1	7098
SEQUENCE737	johOf067f09a1	7099
SEQUENCE738	johOf067f05a1	7100
SEQUENCE739	johOf067a06a1	7101

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SEQUENCE740	johOf067c01a1	7102
SEQUENCE742	johOf067f07a1	7103
SEQUENCE743	johOf067c04a1	7104
SEQUENCE744	johOf067g03a1	7105
SEQUENCE745	johOf067b02a1	7106
SEQUENCE746	johOf067a02a1	7107
SEQUENCE747	johOf067e01a1	7108
SEQUENCE748	johOf066h04a1	7109
SEQUENCE749	johOf058h02a1	7110
SEQUENCE750	johOf062e11a1	7111
SEQUENCE752	johOf062c04a1	7112
SEQUENCE753	johOf062d03a1	7113
SEQUENCE754	johOf062h03a1	7114
SEQUENCE755	johOf058f04a1	7115
SEQUENCE756	johOf064g05a1	7116
SEQUENCE757	johOf064d05a1	7117
SEQUENCE758	johOf069b05a1	7118
SEQUENCE759	johOf069d07a1	7119
SEQUENCE760	johOf069a01a1	7120
SEQUENCE761	johOf063c04a1	7121
SEQUENCE762	johOf063c03a1	7122
SEQUENCE763	johOf017e09a1	7123
SEQUENCE764	johOf017e07a1	7124
SEQUENCE765	johOf017h09a1	7125
SEQUENCE766	johOf014e04a1	7126
SEQUENCE767	johOf017b03a1	7127
SEQUENCE768	johOf014f03a1	7128
SEQUENCE769	johOf014a04a1	7129
SEQUENCE770	johOf018b09a1	7130
SEQUENCE771	johOf018h06a1	7131
SEQUENCE772	johOf018c06a1	7132
SEQUENCE773	johOf017h08a1	7133
SEQUENCE774	johOf017g08a1	7134
SEQUENCE775	johOf017d07a1	7135
SEQUENCE776	johOf017h05a1	7136
SEQUENCE777	johOf017e10a1	7137
SEQUENCE778	johOf017h01a1	7138
SEQUENCE779	johOf017g01a1	7139
SEQUENCE780	johOf014f09a1	7140
SEQUENCE781	johOf098d10a1	7141
SEQUENCE782	johOf078c10a1	7142
SEQUENCE783	johOf078g06a1	7143
SEQUENCE784	johOf077f07a1	7144
SEQUENCE785	johOf078e05a1	7145
SEQUENCE786	johOf082d03a1	7146
SEQUENCE787	johOf098b03a1	7147
SEQUENCE788	johOf078a12a1	7148
SEQUENCE789	johOf082c10a1	7149
SEQUENCE790	johOf077c05a1	7150
SEQUENCE791	johOf077d03a1	7151
SEQUENCE793	johOf097f09a1	7152
SEQUENCE794	johOf097d06a1	7153
SEQUENCE795	johOf097a12a1	7154

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SEQUENCE796	johOf096f08a1	7155
SEQUENCE797	johOf096e05a1	7156
SEQUENCE798	johOf096f11a1	7157
SEQUENCE799	johOf087h04a1	7158
SEQUENCE800	johOf087g01a1	7159
SEQUENCE801	johOf085h09a1	7160
SEQUENCE802	johOf083b08a1	7161
SEQUENCE803	johOf085e07a1	7162
SEQUENCE804	johOf085a06a1	7163
SEQUENCE805	johOf087b05a1	7164
SEQUENCE806	johOf087a04a1	7165
SEQUENCE807	johOf087b02a1	7166
SEQUENCE808	johOf083g07a1	7167
SEQUENCE809	johOf085b07a1	7168
SEQUENCE810	johOf081b04a1	7169
SEQUENCE811	johOf081h02a1	7170
SEQUENCE812	johOf090a05a1	7171
SEQUENCE813	johOf079b12a1	7172
SEQUENCE814	johOf099d03a1	7173
SEQUENCE815	johOf081d03a1	7174
SEQUENCE816	johOf079d12a1	7175
SEQUENCE817	johOf090h02a1	7176
SEQUENCE818	johOf099h11a1	7177
SEQUENCE819	johOf099g10a1	7178
SEQUENCE820	johOf099d10a1	7179
SEQUENCE821	johOf091a09a1	7180
SEQUENCE822	johOf091f01a1	7181
SEQUENCE823	johOf091g08a1	7182
SEQUENCE824	johOf090h11a1	7183
SEQUENCE825	johOf095h02a1	7184
SEQUENCE826	johOf094h10a1	7185
SEQUENCE827	johOf083h01a1	7186
SEQUENCE828	johOf083c01a1	7187
SEQUENCE829	johOf084a03a1	7188
SEQUENCE830	johOf084e11a1	7189
SEQUENCE831	johOf084f06a1	7190
SEQUENCE832	johOf081d07a1	7191
SEQUENCE833	johOf092b09a1	7192
SEQUENCE834	johOf092f08a1	7193
SEQUENCE835	johOf092b04a1	7194
SEQUENCE836	johOf092f04a1	7195
SEQUENCE837	johOf092e04a1	7196
SEQUENCE838	johOf091b12a1	7197
SEQUENCE839	johOf016h06a2	7198
SEQUENCE840	johOf016a12a2	7199
SEQUENCE841	johOf016g07a2	7200
SEQUENCE842	johOf070e12a1	7201
SEQUENCE843	johOf070f07a1	7202
SEQUENCE844	johOf070d07a1	7203
SEQUENCE845	johOf070g11a1	7204
SEQUENCE846	johOf070a10a1	7205
SEQUENCE847	johOf082a01a1	7206
SEQUENCE848	johOf070c04a1	7207

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SEQUENCE849	johOf070b06a1	7208
SEQUENCE850	johOf087e09a1	7209
SEQUENCE851	johOf087f07a1	7210
SEQUENCE852	johOf087c08a1	7211
SEQUENCE853	johOf087d06a1	7212
SEQUENCE854	johOf087b06a1	7213
SEQUENCE855	johOf088d07a1	7214
SEQUENCE856	johOf088h06a1	7215
SEQUENCE857	johOf088c05a1	7216
SEQUENCE858	johOf088f05a1	7217
SEQUENCE859	johOf088e03a1	7218
SEQUENCE860	johOf089c08a1	7219
SEQUENCE861	johOf089e01a1	7220
SEQUENCE862	johOf088e10a1	7221
SEQUENCE863	johOf045g08a1	7222
SEQUENCE864	johOf045a04a1	7223
SEQUENCE865	johOf045e01a1	7224
SEQUENCE866	johOf045a02a1	7225
SEQUENCE867	johOf045c04a1	7226
SEQUENCE868	johOf045h03a1	7227
SEQUENCE869	johOf045g01a1	7228
SEQUENCE870	johOf040g12a1	7229
SEQUENCE872	johOf042h06a1	7230
SEQUENCE873	johOf042d06a1	7231
SEQUENCE874	johOf040b09a1	7232
SEQUENCE875	johOf042g06a1	7233
SEQUENCE876	johOf040c05a1	7234
SEQUENCE877	johOf042b02a1	7235
SEQUENCE878	johOf042b01a1	7236
SEQUENCE879	johOf040a02a1	7237
SEQUENCE880	johOf041a12a1	7238
SEQUENCE881	johOf041g06a1	7239
SEQUENCE882	johOf041c06a1	7240
SEQUENCE883	johOf042b07a1	7241
SEQUENCE884	johOf042a08a1	7242
SEQUENCE885	johOf040e09a1	7243
SEQUENCE886	johOf040e07a1	7244
SEQUENCE887	johOf042g05a1	7245
SEQUENCE888	johOf040h04a1	7246
SEQUENCE889	johOf042a03a1	7247
SEQUENCE890	johOf040d04a1	7248
SEQUENCE891	johOf042d01a1	7249
SEQUENCE892	johOf041c12a1	7250
SEQUENCE893	johOf041g09a1	7251
SEQUENCE894	johOf041e08a1	7252
SEQUENCE895	johOf041c08a1	7253
SEQUENCE896	johOf041e07a1	7254
SEQUENCE897	johOf041e06a1	7255
SEQUENCE898	johOf041b06a1	7256
SEQUENCE899	johOf071c02a1	7257
SEQUENCE900	johOf074e06a1	7258
SEQUENCE901	johOf074b05a1	7259
SEQUENCE902	johOf074c04a1	7260

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SEQUENCE903	johOf071g12a1	7261
SEQUENCE904	johOf072a06a1	7262
SEQUENCE905	johOf072g05a1	7263
SEQUENCE906	johOf074g12a1	7264
SEQUENCE907	johOf071g06a1	7265
SEQUENCE908	johOf072e01a1	7266
SEQUENCE909	johOf071a04a1	7267
SEQUENCE910	johOf072d01a1	7268
SEQUENCE911	johOf073h11a1	7269
SEQUENCE912	johOfReA003d04a1	7270
SEQUENCE913	johOfReA003h08a1	7271
SEQUENCE914	johOfReA003c09a1	7272
SEQUENCE915	johOfReA003c08a1	7273
SEQUENCE916	johOa001c11t2	7274
SEQUENCE917	johOa004c01t1	7275
SEQUENCE918	johOa003f09t1	7276
SEQUENCE919	johOa003f03t1	7277
SEQUENCE920	johOa004h10t1	7278
SEQUENCE921	johOa004b04t1	7279
SEQUENCE922	johOa004d02t1	7280
SEQUENCE923	johOa011d01t1	7281
SEQUENCE924	johOa012g01t1	7282
SEQUENCE925	johOa012a04t1	7283
SEQUENCE926	johOa012e03t1	7284
SEQUENCE927	johOa002a02t1	7285
SEQUENCE928	johOa005b01t2	7286
SEQUENCE929	johOa011b10t1	7287
SEQUENCE930	johOa011d11t1	7288
SEQUENCE931	johOa013d05t1	7289
SEQUENCE932	johOa013c05t1	7290
SEQUENCE933	johOa013a03t1	7291
SEQUENCE934	johOa013e04t1	7292
SEQUENCE935	johOa014h02t1	7293
SEQUENCE936	johOa014a03t1	7294
SEQUENCE937	johOa015c11t1	7295
SEQUENCE938	johOa016e06t1	7296
SEQUENCE939	johOa014f05t1	7297
SEQUENCE940	johOa015f08t1	7298
SEQUENCE942	johOa014b06t1	7299
SEQUENCE943	johOa010a04t2	7300
SEQUENCE944	johOa010e04t2	7301
SEQUENCE945	johOa010f05t2	7302
SEQUENCE946	johOa009a08t2	7303
SEQUENCE947	johOa009b08t2	7304
SEQUENCE949	johOa009h10t2	7305
SEQUENCE950	johOa007h10t2	7306
SEQUENCE951	johOa009d06t2	7307
SEQUENCE952	johOa031f02t1	7308
SEQUENCE953	johOa031f01t1	7309
SEQUENCE954	johOa030f01t1	7310
SEQUENCE955	johOa029d06t1	7311
SEQUENCE956	johOa029d04t1	7312
SEQUENCE957	johOa029e02t1	7313

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SEQUENCE958	johOa028d12t1	7314
SEQUENCE959	johOa029c05t1	7315
SEQUENCE960	johOa029b02t1	7316
SEQUENCE961	johOa025h12t1	7317
SEQUENCE962	johOa025f01t1	7318
SEQUENCE963	johOa025g07t1	7319
SEQUENCE964	johOa025c07t1	7320
SEQUENCE965	johOa025c01t1	7321
SEQUENCE966	johOa019b11t1	7322
SEQUENCE967	johOa018g06t1	7323
SEQUENCE968	johOa018g05t1	7324
SEQUENCE969	johOa018c01t1	7325
SEQUENCE970	johOa018d06t1	7326
SEQUENCE971	johOa020g04t1	7327
SEQUENCE972	johOa038b01t1	7328
SEQUENCE973	johOa037d01t1	7329
SEQUENCE974	johOa058c11t1	7330
SEQUENCE975	johOa040b12t1	7331
SEQUENCE976	johOa039f06t1	7332
SEQUENCE977	johOa058d06t1	7333
SEQUENCE978	johOa039a04t1	7334
SEQUENCE979	johOa058e05t1	7335
SEQUENCE980	johOa039h01t1	7336
SEQUENCE981	johOa039g01t1	7337
SEQUENCE982	johOa057h03t1	7338
SEQUENCE983	johOa058b04t1	7339
SEQUENCE984	johOa057f09t1	7340
SEQUENCE985	johOa057h08t1	7341
SEQUENCE986	johOa057e03t1	7342
SEQUENCE987	johOa052e11t1	7343
SEQUENCE988	johOa051b11t1	7344
SEQUENCE989	johOa052d01t1	7345
SEQUENCE990	johOa051d02t1	7346
SEQUENCE991	johOa054b02t1	7347
SEQUENCE992	johOa060b11t1	7348
SEQUENCE993	johOa060a11t1	7349
SEQUENCE994	johOa051e06t1	7350
SEQUENCE995	johOa051b05t1	7351
SEQUENCE996	johOa053g12t1	7352
SEQUENCE997	johOa053h11t1	7353
SEQUENCE998	johOa050e12t1	7354
SEQUENCE999	johOa050b02t1	7355
SEQUENCE1000	johOa048a06t1	7356
SEQUENCE1001	johOa045f01t1	7357
SEQUENCE1002	johOa050d02t1	7358
SEQUENCE1003	johOa044h05t1	7359
SEQUENCE1004	johOa048f12t1	7360
SEQUENCE1005	johOa048g05t1	7361
SEQUENCE1006	johOa044h09t1	7362
SEQUENCE1007	johOa056a12t1	7363
SEQUENCE1008	johOa044h04t1	7364
SEQUENCE1009	johOa054g10t1	7365
SEQUENCE1010	johOa056a07t1	7366

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SEQUENCE1011	johOa054c09t1	7367
SEQUENCE1012	johOa054b04t1	7368
SEQUENCE1013	johOa054e02t1	7369
SEQUENCE1014	johOa056d02t1	7370
SEQUENCE1015	johOa054b10t1	7371
SEQUENCE1016	johOa054c04t1	7372
SEQUENCE1017	johOa067h12t1	7373
SEQUENCE1018	johOa067g08t1	7374
SEQUENCE1019	johOa067h06t1	7375
SEQUENCE1020	johOa067a10t1	7376
SEQUENCE1021	johOa070g04t1	7377
SEQUENCE1022	johOa070b10t1	7378
SEQUENCE1023	johOa067f01t1	7379
SEQUENCE1024	johOa067a02t1	7380
SEQUENCE1025	johOa070d09t1	7381
SEQUENCE1026	johOa070c09t1	7382
SEQUENCE1027	johOa068b03t1	7383
SEQUENCE1028	johOa068a11t1	7384
SEQUENCE1029	johOa068a03t1	7385
SEQUENCE1030	johOb001h04t1	7386
SEQUENCE1031	johOb001d04t1	7387
SEQUENCE1032	johOb001e10t1	7388
SEQUENCE1034	johOb001h07t1	7389
SEQUENCE1035	johOb003c09t1	7390
SEQUENCE1036	johOb003f07t1	7391
SEQUENCE1037	johOb003f06t1	7392
SEQUENCE1038	johOb003b06t1	7393
SEQUENCE1039	johOb004c10t1	7394
SEQUENCE1040	johOb004e06t1	7395
SEQUENCE1041	johOb004e02t1	7396
SEQUENCE1042	johOb004h01t1	7397
SEQUENCE1043	johOb004f09t1	7398
SEQUENCE1044	johOb004h04t1	7399
SEQUENCE1046	johOb002c11t1	7400
SEQUENCE1047	johOb002e01t1	7401
SEQUENCE1048	johOb002b11t1	7402
SEQUENCE1049	johOb006d03t1	7403
SEQUENCE1050	johOb006a03t1	7404
SEQUENCE1051	johOb005e04t1	7405
SEQUENCE1052	johOb006a11t1	7406
SEQUENCE1053	johOb012h05t1	7407
SEQUENCE1054	johOb005c06t1	7408
SEQUENCE1055	johOb006g10t1	7409
SEQUENCE1056	johOb012c03t1	7410
SEQUENCE1057	johOb013h10t1	7411
SEQUENCE1058	johOb007b05t2	7412
SEQUENCE1059	johOb010h12t1	7413
SEQUENCE1060	johOb010e09t1	7414
SEQUENCE1061	johOb016h05t1	7415
SEQUENCE1062	johOb016b01t1	7416
SEQUENCE1063	johOb022a08t1	7417
SEQUENCE1064	johOb021f05t1	7418
SEQUENCE1065	johOb018g12t1	7419

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SEQUENCE1066	johOb018d10t1	7420
SEQUENCE1068	johOb018h07t1	7421
SEQUENCE1069	johOb019f11t1	7422
SEQUENCE1070	johOb025c02t1	7423
SEQUENCE1071	johOb020d07t1	7424
SEQUENCE1072	johOb021c12t1	7425
SEQUENCE1073	johOb020b07t1	7426
SEQUENCE1074	johOb020b02t1	7427
SEQUENCE1075	johOb023g09t1	7428
SEQUENCE1076	johOb019e04t1	7429
SEQUENCE1077	johOb015a05t1	7430
SEQUENCE1078	johOb015c07t1	7431
SEQUENCE1079	johOb014a12t1	7432
SEQUENCE1080	johOb014e12t1	7433
SEQUENCE1081	johOb014b12t1	7434
SEQUENCE1082	johOc001f06t1	7435
SEQUENCE1083	johOc001a05t1	7436
SEQUENCE1084	johOc001c12t1	7437
SEQUENCE1085	johOc001g09t1	7438
SEQUENCE1086	johOc001g07t1	7439
SEQUENCE1087	johOc001h06t1	7440
SEQUENCE1088	johOc006e12t1	7441
SEQUENCE1089	johOc004d11t1	7442
SEQUENCE1090	johOc006c07t1	7443
SEQUENCE1091	johOc006b07t1	7444
SEQUENCE1092	johOc004g01t1	7445
SEQUENCE1093	johOc005d11t1	7446
SEQUENCE1094	johOc004a04t1	7447
SEQUENCE1095	johOc005b12t1	7448
SEQUENCE1096	johOc005a08t1	7449
SEQUENCE1097	johOc005c06t1	7450
SEQUENCE1098	johOc003b01t1	7451
SEQUENCE1099	johOc007g10t1	7452
SEQUENCE1100	johOc007b11t1	7453
SEQUENCE1101	johOc007b01t1	7454
SEQUENCE1102	johOc013c05t1	7455
SEQUENCE1103	johOc014a10t1	7456
SEQUENCE1104	johOc014d02t1	7457
SEQUENCE1105	johOc014c02t1	7458
SEQUENCE1106	johOc008g07t1	7459
SEQUENCE1107	johOc012a11t1	7460
SEQUENCE1108	johOc010h01t1	7461
SEQUENCE1109	johOc009h12t1	7462
SEQUENCE1110	johOc011d06t1	7463
SEQUENCE1111	johOc009g03t1	7464
SEQUENCE1112	johOc011d03t1	7465
SEQUENCE1113	johOc012g02t1	7466
SEQUENCE1114	johOc011f11t1	7467
SEQUENCE1115	johOc011a10t1	7468
SEQUENCE1116	johOc011a06t1	7469
SEQUENCE1117	johOc008c06t1	7470
SEQUENCE1118	johOc010b09t1	7471
SEQUENCE1119	johOc010h12t1	7472

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SEQUENCE1120	johOc010e12t1	7473
SEQUENCE1121	johOd004d03a1	7474
SEQUENCE1122	johOd004h06b1	7475
SEQUENCE1123	johOd004b02b1	7476
SEQUENCE1124	johOd004f01b1	7477
SEQUENCE1125	johOd001h11a1	7478
SEQUENCE1126	johOd001f01b1	7479
SEQUENCE1127	johOd001a10a1	7480
SEQUENCE1128	johOd001d03b1	7481
SEQUENCE1129	johOd001d06a1	7482
SEQUENCE1130	johOd002h03b1	7483
SEQUENCE1131	johOd003e03a1	7484
SEQUENCE1132	johOd003b02a1	7485
SEQUENCE1133	johOd003e08b1	7486
SEQUENCE1134	johOd003c05b1	7487
SEQUENCE1135	johOd003c03b1	7488
SEQUENCE1136	johOd003h07b1	7489
SEQUENCE1137	johOd003f03b1	7490
SEQUENCE1138	johOd031f12t2	7491
SEQUENCE1139	johOd031b06t2	7492
SEQUENCE1140	johOd052h09a1	7493
SEQUENCE1141	johOd052e02a1	7494
SEQUENCE1142	johOd052f01a1	7495
SEQUENCE1143	johOd052f07a1	7496
SEQUENCE1144	johOd052h06a1	7497
SEQUENCE1145	johOd052g02a1	7498
SEQUENCE1146	johOd047a10a1	7499
SEQUENCE1147	johOd047d08a1	7500
SEQUENCE1148	johOd047d12a1	7501
SEQUENCE1149	johOd047d07a1	7502
SEQUENCE1150	johOd047e04a1	7503
SEQUENCE1151	johOd045b07a1	7504
SEQUENCE1152	johOd045c06a1	7505
SEQUENCE1153	johOd054c07a1	7506
SEQUENCE1154	johOd054g05a1	7507
SEQUENCE1155	johOd054d06a1	7508
SEQUENCE1156	johOd041f07a1	7509
SEQUENCE1157	johOd046g04a1	7510
SEQUENCE1158	johOd046h03a1	7511
SEQUENCE1159	johOd046h04a1	7512
SEQUENCE1160	johOd046b04a1	7513
SEQUENCE1161	johOd051f11a1	7514
SEQUENCE1162	johOd051d03a1	7515
SEQUENCE1163	johOd051c01a1	7516
SEQUENCE1164	johOd051c02a1	7517
SEQUENCE1165	johOd051a01a1	7518
SEQUENCE1166	johOd041h01a1	7519
SEQUENCE1167	johOd057g05a1	7520
SEQUENCE1168	johOd057e03a1	7521
SEQUENCE1169	johOd057e02a1	7522
SEQUENCE1170	johOd057e01a1	7523
SEQUENCE1171	johOd058b11a1	7524
SEQUENCE1172	johOd039c10a1	7525

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SEQUENCE1173	johOd056b11a1	7526
SEQUENCE1174	johOd056a12a1	7527
SEQUENCE1175	johOd056a11a1	7528
SEQUENCE1176	johOd056h06a1	7529
SEQUENCE1177	johOd064d04a2	7530
SEQUENCE1178	johOd065c07a2	7531
SEQUENCE1179	johOd065h02a2	7532
SEQUENCE1180	johOd064c01a2	7533
SEQUENCE1181	johOd064e10a2	7534
SEQUENCE1182	johOd064c07a2	7535
SEQUENCE1183	johOd064f06a2	7536
SEQUENCE1184	johOd065c08a2	7537
SEQUENCE1185	johOd064d05a2	7538
SEQUENCE1186	johOd065c03a2	7539
SEQUENCE1187	johOd065f03a2	7540
SEQUENCE1188	johOd064f09a2	7541
SEQUENCE1189	johOd055f07a2	7542
SEQUENCE1190	johOd055e07a2	7543
SEQUENCE1191	johOd053g12a2	7544
SEQUENCE1192	johOd053h12a2	7545
SEQUENCE1193	johOd053h06a2	7546
SEQUENCE1194	johOd053a05a2	7547
SEQUENCE1195	johOd050e12a2	7548
SEQUENCE1196	johOd048e01a2	7549
SEQUENCE1197	johOd048a01a2	7550
SEQUENCE1198	johOd049h01a2	7551
SEQUENCE1199	johOd048f08a2	7552
SEQUENCE1200	johOd049c01a2	7553
SEQUENCE1201	johOd048a09a2	7554
SEQUENCE1202	johOd050d02a2	7555
SEQUENCE1203	johOd049g08a2	7556
SEQUENCE1204	johOd007h04t2	7557
SEQUENCE1205	johOd006e07t2	7558
SEQUENCE1206	johOd006a08t2	7559
SEQUENCE1207	johOd015h09t2	7560
SEQUENCE1208	johOd015a06t2	7561
SEQUENCE1209	johOd035f10a1	7562
SEQUENCE1210	johOd037f08a1	7563
SEQUENCE1211	johOd013h02t2	7564
SEQUENCE1212	johOd068d09a1	7565
SEQUENCE1214	johOd072e10a1	7566
SEQUENCE1215	johOd072d10a1	7567
SEQUENCE1216	johOd068f09a1	7568
SEQUENCE1217	johOd068c09a1	7569
SEQUENCE1218	johOd068d01a1	7570
SEQUENCE1219	johOd067f11a1	7571
SEQUENCE1220	johOd073c02a2	7572
SEQUENCE1221	johOd069e11a2	7573
SEQUENCE1222	johOd073a11a2	7574
SEQUENCE1223	johOd069c10a2	7575
SEQUENCE1224	johOd069g05a2	7576
SEQUENCE1225	johOd073g04a2	7577
SEQUENCE1226	johOd071c08a2	7578

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SEQUENCE1227	johOd069h04a2	7579
SEQUENCE1228	johOd070e12a2	7580
SEQUENCE1229	johOd069h01a2	7581
SEQUENCE1230	johOd071a02a2	7582
SEQUENCE1231	johOd070e04a2	7583
SEQUENCE1232	johOd069h05a2	7584
SEQUENCE1233	johOd060e03a2	7585
SEQUENCE1234	johOd061g06a2	7586
SEQUENCE1235	johOd060h05a2	7587
SEQUENCE1236	johOd063a10a2	7588
SEQUENCE1237	johOd063d10a2	7589
SEQUENCE1239	johOd063d07a2	7590
SEQUENCE1240	johOd063c01a2	7591
SEQUENCE1241	johOd062h12a2	7592
SEQUENCE1242	johOd062b11a2	7593
SEQUENCE1243	johOd062h01a2	7594
SEQUENCE1244	johOd062a01a2	7595
SEQUENCE1245	johOd062c02a2	7596
SEQUENCE1246	johOd060g10a2	7597
SEQUENCE1247	johOd096c12a1	7598
SEQUENCE1248	johOd096d07a1	7599
SEQUENCE1249	johOd093f01a1	7600
SEQUENCE1250	johOd096b08a1	7601
SEQUENCE1251	johOd094c10a1	7602
SEQUENCE1252	johOd094f11a1	7603
SEQUENCE1253	johOd094a11a1	7604
SEQUENCE1254	johOd095e03a1	7605
SEQUENCE1255	johOd095a01a1	7606
SEQUENCE1256	johOd096f05a1	7607
SEQUENCE1257	johOd096a02a1	7608
SEQUENCE1258	johOd095h09a1	7609
SEQUENCE1259	johOd095d08a1	7610
SEQUENCE1260	johOd096c03a1	7611
SEQUENCE1261	johOd096h01a1	7612
SEQUENCE1262	johOd085h10a1	7613
SEQUENCE1263	johOd085b09a1	7614
SEQUENCE1264	johOd085d07a1	7615
SEQUENCE1265	johOd085g04a1	7616
SEQUENCE1266	johOd091e08a1	7617
SEQUENCE1267	johOd091c05a1	7618
SEQUENCE1268	johOd091b03a1	7619
SEQUENCE1269	johOd091d02a1	7620
SEQUENCE1270	johOd091a01a1	7621
SEQUENCE1271	johOd091e04a1	7622
SEQUENCE1272	johOd090b12a1	7623
SEQUENCE1273	johOd090c10a1	7624
SEQUENCE1274	johOd090g09a1	7625
SEQUENCE1275	johOd090e08a1	7626
SEQUENCE1276	johOd090b07a1	7627
SEQUENCE1277	johOd090h05a1	7628
SEQUENCE1278	johOd090h03a1	7629
SEQUENCE1279	johOd090a03a1	7630
SEQUENCE1280	johOd090h01a1	7631

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SEQUENCE1281	johOd090c05a1	7632
SEQUENCE1282	johOd090f04a1	7633
SEQUENCE1283	johOd083g04a1	7634
SEQUENCE1284	johOd083c07a1	7635
SEQUENCE1285	johOd083g05a1	7636
SEQUENCE1286	johOd092c07a1	7637
SEQUENCE1287	johOd084g09a1	7638
SEQUENCE1288	johOd084a06a1	7639
SEQUENCE1289	johOd084h05a1	7640
SEQUENCE1290	johOd084e02a1	7641
SEQUENCE1291	johOd085g11a1	7642
SEQUENCE1292	johOd084h09a1	7643
SEQUENCE1293	johOd084d09a1	7644
SEQUENCE1294	johOd084e01a1	7645
SEQUENCE1295	johOd085a12a1	7646
SEQUENCE1296	johOd083f08a1	7647
SEQUENCE1297	johOd083g03a1	7648
SEQUENCE1298	johOd083b08a1	7649
SEQUENCE1299	johOd083c06a1	7650
SEQUENCE1300	johOd084e12a1	7651
SEQUENCE1301	johOd090d12a1	7652
SEQUENCE1302	johOd086f06a2	7653
SEQUENCE1303	johOd086f07a2	7654
SEQUENCE1304	johOd086b02a2	7655
SEQUENCE1305	johOe001e07a1	7656
SEQUENCE1306	johOe001d06a1	7657
SEQUENCE1307	johOe001h02a1	7658
SEQUENCE1308	johOe003e03a1	7659
SEQUENCE1309	johOe003g06a1	7660
SEQUENCE1310	johOe004f05a2	7661
SEQUENCE1311	johOe004f04a2	7662
SEQUENCE1312	johOe004d03a2	7663
SEQUENCE1313	johOe004a06a2	7664
SEQUENCE1314	johOe004a01a2	7665
SEQUENCE1315	johOe004d01a2	7666
SEQUENCE1316	johOe008h10a2	7667
SEQUENCE1317	johOe008a10a2	7668
SEQUENCE1318	johOe008h06a2	7669
SEQUENCE1319	johOe005f01a2	7670
SEQUENCE1320	johOe006f09a2	7671
SEQUENCE1321	johOe004d09a2	7672
SEQUENCE1322	johOe005d04a2	7673
SEQUENCE1323	johOe010c04a2	7674
SEQUENCE1324	johOe008b04a2	7675
SEQUENCE1325	johOe008a03a2	7676
SEQUENCE1326	johOe009g12a2	7677
SEQUENCE1327	johOe006g06a2	7678
SEQUENCE1328	johOe004e11a2	7679
SEQUENCE1329	johOe006g05a2	7680
SEQUENCE1330	johOe004g10a2	7681
SEQUENCE1331	johOe009h08a2	7682
SEQUENCE1332	johOe011d05a2	7683
SEQUENCE1333	johOe009d06a2	7684

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SEQUENCE1334	johOe009h05a2	7685
SEQUENCE1335	johOe009f04a2	7686
SEQUENCE1336	johOe009a05a2	7687
SEQUENCE1337	johOe009b04a2	7688
SEQUENCE1338	johOe009h01a2	7689
SEQUENCE1339	johOe010d12a2	7690
SEQUENCE1340	johOe011e01a2	7691
SEQUENCE1341	johOe011h01a2	7692
SEQUENCE1342	johOe008g11a2	7693
SEQUENCE1343	johOe007h03a2	7694
SEQUENCE1344	johOe007e04a2	7695
SEQUENCE1345	johOe007b10a2	7696
SEQUENCE1346	johOe007b08a2	7697
SEQUENCE1347	johOe006c01a2	7698
SEQUENCE1348	johOe016c07a1	7699
SEQUENCE1349	johOe016f06a1	7700
SEQUENCE1350	johOe017b05a1	7701
SEQUENCE1351	johOe017f03a1	7702
SEQUENCE1352	johOe018e04a1	7703
SEQUENCE1353	johOe016f12a1	7704
SEQUENCE1354	johOe016a10a1	7705
SEQUENCE1355	johOe016f08a1	7706
SEQUENCE1356	johOe017b07a1	7707
SEQUENCE1357	johOe017c03a1	7708
SEQUENCE1358	johOe015a09a1	7709
SEQUENCE1359	johOe014g07a1	7710
SEQUENCE1360	johOe014b07a1	7711
SEQUENCE1361	johOe014f03a1	7712
SEQUENCE1362	johOe014h09a1	7713
SEQUENCE1363	johOe014h06a1	7714
SEQUENCE1364	johOe014a05a1	7715
SEQUENCE1365	johOe035c11a1	7716
SEQUENCE1366	johOe032a01a1	7717
SEQUENCE1367	johOe035c06a1	7718
SEQUENCE1368	johOe035a04a1	7719
SEQUENCE1369	johOe036a01a1	7720
SEQUENCE1370	johOe032g07a1	7721
SEQUENCE1371	johOe035b10a1	7722
SEQUENCE1373	johOe035e06a1	7723
SEQUENCE1374	johOe019f05a1	7724
SEQUENCE1375	johOe035b03a1	7725
SEQUENCE1376	johOe034h11a1	7726
SEQUENCE1377	johOe034h06a1	7727
SEQUENCE1378	johOe034d05a1	7728
SEQUENCE1379	johOe034d03a1	7729
SEQUENCE1380	johOe033f08a1	7730
SEQUENCE1381	johOe034g02a1	7731
SEQUENCE1382	johOe034g01a1	7732
SEQUENCE1383	johOe033b01a1	7733
SEQUENCE1384	johOe033d08a1	7734
SEQUENCE1385	johOe034e02a1	7735
SEQUENCE1386	johOe034h01a1	7736
SEQUENCE1387	johOe033c06a1	7737

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SEQUENCE1388	johOe033h03a1	7738
SEQUENCE1389	johOe033f01a1	7739
SEQUENCE1390	johOe032e10a1	7740
SEQUENCE1391	johOe037d08a1	7741
SEQUENCE1392	johOe036f03a1	7742
SEQUENCE1393	johOe036d10a1	7743
SEQUENCE1395	johOe019c11a1	7744
SEQUENCE1396	johOe019a11a1	7745
SEQUENCE1397	johOe019c02a1	7746
SEQUENCE1398	johOe022f09a1	7747
SEQUENCE1399	johOe030b09a1	7748
SEQUENCE1400	johOe031d08a1	7749
SEQUENCE1401	johOe031f06a1	7750
SEQUENCE1402	johOe031f01a1	7751
SEQUENCE1403	johOe030b01a1	7752
SEQUENCE1404	johOe029f06a1	7753
SEQUENCE1405	johOe028c05a1	7754
SEQUENCE1406	johOe028d05a1	7755
SEQUENCE1407	johOe028h01a1	7756
SEQUENCE1408	johOe025e12a1	7757
SEQUENCE1409	johOe025a12a1	7758
SEQUENCE1410	johOe025g09a1	7759
SEQUENCE1411	johOe028c09a1	7760
SEQUENCE1412	johOe024a03a1	7761
SEQUENCE1413	johOe025a05a1	7762
SEQUENCE1414	johOe038c10a1	7763
SEQUENCE1415	johOe038h03a1	7764
SEQUENCE1416	johOe038d03a1	7765
SEQUENCE1417	johOf006b02a1	7766
SEQUENCE1418	johOf006g09a1	7767
SEQUENCE1419	johOf006c06a1	7768
SEQUENCE1420	johOf011e12a1	7769
SEQUENCE1421	johOf013a06a1	7770
SEQUENCE1422	johOf001g10b1	7771
SEQUENCE1423	johOf001h04b1	7772
SEQUENCE1424	johOf001f07b1	7773
SEQUENCE1425	johOf010d07a1	7774
SEQUENCE1426	johOf012c08a1	7775
SEQUENCE1427	johOf004h12a1	7776
SEQUENCE1428	johOf005b02a1	7777
SEQUENCE1429	johOf004f07a1	7778
SEQUENCE1430	johOf002h06a1	7779
SEQUENCE1431	johOf030g07a1	7780
SEQUENCE1432	johOf030b05a1	7781
SEQUENCE1433	johOf026a11a1	7782
SEQUENCE1434	johOf026b02a1	7783
SEQUENCE1435	johOf032b12a1	7784
SEQUENCE1436	johOf032h11a1	7785
SEQUENCE1437	johOf032d10a1	7786
SEQUENCE1438	johOf032e07a1	7787
SEQUENCE1439	johOf029g05a1	7788
SEQUENCE1440	johOf032e11a1	7789
SEQUENCE1442	johOf035d04a1	7790

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SEQUENCE1443	johOf029g08a1	7791
SEQUENCE1444	johOf019c10a2	7792
SEQUENCE1445	johOf019d09a2	7793
SEQUENCE1446	johOf019h05a2	7794
SEQUENCE1447	johOf037h10a1	7795
SEQUENCE1448	johOf037a10a1	7796
SEQUENCE1449	johOf037e10a1	7797
SEQUENCE1450	johOf037b09a1	7798
SEQUENCE1451	johOf037b10a1	7799
SEQUENCE1452	johOf037a09a1	7800
SEQUENCE1453	johOf023h04a2	7801
SEQUENCE1454	johOf021b09a2	7802
SEQUENCE1455	johOf023e02a2	7803
SEQUENCE1456	johOf021e06a2	7804
SEQUENCE1457	johOf023d10a2	7805
SEQUENCE1459	johOf021f01a2	7806
SEQUENCE1460	johOf024g12a2	7807
SEQUENCE1461	johOf057c12a1	7808
SEQUENCE1462	johOf057a11a1	7809
SEQUENCE1463	johOf057g09a1	7810
SEQUENCE1464	johOf057g08a1	7811
SEQUENCE1465	johOf057h07a1	7812
SEQUENCE1466	johOf057b04a1	7813
SEQUENCE1467	johOf057h02a1	7814
SEQUENCE1468	johOf057g02a1	7815
SEQUENCE1469	johOf057h01a1	7816
SEQUENCE1471	johOf057e11a1	7817
SEQUENCE1472	johOf057g10a1	7818
SEQUENCE1473	johOf057b10a1	7819
SEQUENCE1474	johOf057a10a1	7820
SEQUENCE1475	johOf057a09a1	7821
SEQUENCE1476	johOf057c04a1	7822
SEQUENCE1477	johOf057b02a1	7823
SEQUENCE1478	johOf056d12a1	7824
SEQUENCE1479	johOf056h03a1	7825
SEQUENCE1480	johOf068h09a1	7826
SEQUENCE1481	johOf068e06a1	7827
SEQUENCE1482	johOf068f04a1	7828
SEQUENCE1483	johOf068d05a1	7829
SEQUENCE1484	johOf064c02a1	7830
SEQUENCE1485	johOf065b08a1	7831
SEQUENCE1486	johOf069g12a1	7832
SEQUENCE1487	johOf065h10a1	7833
SEQUENCE1488	johOf065d10a1	7834
SEQUENCE1490	johOf065f05a1	7835
SEQUENCE1491	johOf069a10a1	7836
SEQUENCE1492	johOf067h12a1	7837
SEQUENCE1493	johOf067a05a1	7838
SEQUENCE1494	johOf067e12a1	7839
SEQUENCE1495	johOf067b07a1	7840
SEQUENCE1496	johOf060a02a1	7841
SEQUENCE1497	johOf061d05a1	7842
SEQUENCE1498	johOf069b06a1	7843

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SEQUENCE1499	johOf069e06a1	7844
SEQUENCE1500	johOf018a09a1	7845
SEQUENCE1501	johOf018g07a1	7846
SEQUENCE1502	johOf018h05a1	7847
SEQUENCE1503	johOf017b09a1	7848
SEQUENCE1504	johOf017e08a1	7849
SEQUENCE1505	johOf017a05a1	7850
SEQUENCE1506	johOf014g07a1	7851
SEQUENCE1507	johOf017f11a1	7852
SEQUENCE1508	johOf014h12a1	7853
SEQUENCE1509	johOf018d11a1	7854
SEQUENCE1510	johOf079e02a1	7855
SEQUENCE1511	johOf084g02a1	7856
SEQUENCE1512	johOf077f06a1	7857
SEQUENCE1513	johOf078f11a1	7858
SEQUENCE1514	johOf077e10a1	7859
SEQUENCE1515	johOf098g07a1	7860
SEQUENCE1516	johOf098d03a1	7861
SEQUENCE1517	johOf097b08a1	7862
SEQUENCE1518	johOf085a03a1	7863
SEQUENCE1519	johOf086f10a1	7864
SEQUENCE1520	johOf083b09a1	7865
SEQUENCE1521	johOf083h04a1	7866
SEQUENCE1522	johOf085h05a1	7867
SEQUENCE1523	johOf085d04a1	7868
SEQUENCE1524	johOf085b01a1	7869
SEQUENCE1525	johOf086c09a1	7870
SEQUENCE1526	johOf086e07a1	7871
SEQUENCE1527	johOf085c07a1	7872
SEQUENCE1528	johOf083c05a1	7873
SEQUENCE1529	johOf099h07a1	7874
SEQUENCE1530	johOf081g03a1	7875
SEQUENCE1531	johOf079g12a1	7876
SEQUENCE1532	johOf099g02a1	7877
SEQUENCE1533	johOf099e12a1	7878
SEQUENCE1534	johOf081h06a1	7879
SEQUENCE1535	johOf080d02a1	7880
SEQUENCE1536	johOf099g04a1	7881
SEQUENCE1537	johOf079c11a1	7882
SEQUENCE1538	johOf099a03a1	7883
SEQUENCE1539	johOf080h07a1	7884
SEQUENCE1540	johOf095d11a1	7885
SEQUENCE1541	johOf090d10a1	7886
SEQUENCE1542	johOf084f11a1	7887
SEQUENCE1543	johOf081g12a1	7888
SEQUENCE1544	johOf081a09a1	7889
SEQUENCE1545	johOf092a05a1	7890
SEQUENCE1546	johOf016d09a2	7891
SEQUENCE1547	johOf016d08a2	7892
SEQUENCE1548	johOf016d04a2	7893
SEQUENCE1549	johOf070h11a1	7894
SEQUENCE1550	johOf087g09a1	7895
SEQUENCE1551	johOf089a08a1	7896

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SEQUENCE1552	johOf088d09a1	7897
SEQUENCE1553	johOf045a05a1	7898
SEQUENCE1554	johOf040c11a1	7899
SEQUENCE1555	johOf042c06a1	7900
SEQUENCE1556	johOf041g07a1	7901
SEQUENCE1557	johOf041c02a1	7902
SEQUENCE1558	johOf042g08a1	7903
SEQUENCE1559	johOf042c03a1	7904
SEQUENCE1560	johOf041f06a1	7905
SEQUENCE1561	johOf074g09a1	7906
SEQUENCE1562	johOf072b03a1	7907
SEQUENCE1563	johOfReA003h01a1	7908
SEQUENCE1564	johOfReA003d01a1	7909
SEQUENCE1566	johOa001b01t1	7910
SEQUENCE1567	johOa004g12t1	7911
SEQUENCE1568	johOa015b07t1	7912
SEQUENCE1569	johOa031c06t1	7913
SEQUENCE1570	johOa019a09t1	7914
SEQUENCE1571	johOa070h10t1	7915
SEQUENCE1572	johOb013g03t1	7916
SEQUENCE1573	johOb023h10t1	7917
SEQUENCE1574	johOb023h02t1	7918
SEQUENCE1575	johOc006d07t1	7919
SEQUENCE1576	johOc005c01t1	7920
SEQUENCE1577	johOc009b03t1	7921
SEQUENCE1578	johOd004c10a1	7922
SEQUENCE1579	johOd004f08a1	7923
SEQUENCE1580	johOd004e04a1	7924
SEQUENCE1581	johOd004h03a1	7925
SEQUENCE1582	johOd004e11a1	7926
SEQUENCE1583	johOd004g02a1	7927
SEQUENCE1584	johOd002a10b1	7928
SEQUENCE1585	johOd002f08b1	7929
SEQUENCE1586	johOd002e11b1	7930
SEQUENCE1587	johOd002c10b1	7931
SEQUENCE1588	johOd002e04b1	7932
SEQUENCE1589	johOd031c02t2	7933
SEQUENCE1590	johOd046d02a1	7934
SEQUENCE1591	johOd015c08t2	7935
SEQUENCE1592	johOd096d03a1	7936
SEQUENCE1593	johOe017d08a1	7937
SEQUENCE1594	johOe037g09a1	7938
SEQUENCE1595	johOe037c01a1	7939
SEQUENCE1596	johOe022d12a1	7940
SEQUENCE1597	johOf005e01a1	7941
SEQUENCE1598	johOf002b08a1	7942
SEQUENCE1599	johOf028d01a1	7943
SEQUENCE1600	johOf020f10a2	7944
SEQUENCE1601	johOf067c03a1	7945
SEQUENCE1603	johOf090h03a1	7946
SEQUENCE1604	johOf094e10a1	7947
SEQUENCE1605	johOf016c08a2	7948
SEQUENCE1606	johOf088a04a1	7949

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SEQUENCE1607	johOa001a01t1	7950
SEQUENCE1608	johOa001b10t2	7951
SEQUENCE1609	johOa001c09t2	7952
SEQUENCE1610	johOa001c10t2	7953
SEQUENCE1611	johOa001e01t1	7954
SEQUENCE1612	johOa001f11t2	7955
SEQUENCE1613	johOa002a04t1	7956
SEQUENCE1614	johOa002c03t1	7957
SEQUENCE1615	johOa002c11t1	7958
SEQUENCE1616	johOa002d02t1	7959
SEQUENCE1617	johOa002g09t1	7960
SEQUENCE1618	johOa002g11t1	7961
SEQUENCE1619	johOa003a09t1	7962
SEQUENCE1620	johOa003b03t1	7963
SEQUENCE1621	johOa003b05t1	7964
SEQUENCE1622	johOa003e12t1	7965
SEQUENCE1623	johOa003f02t1	7966
SEQUENCE1624	johOa003f07t1	7967
SEQUENCE1625	johOa003f08t1	7968
SEQUENCE1626	johOa003g08t1	7969
SEQUENCE1627	johOa003g11t1	7970
SEQUENCE1628	johOa003h06t1	7971
SEQUENCE1629	johOa003h08t1	7972
SEQUENCE1630	johOa003h12t1	7973
SEQUENCE1631	johOa004a07t1	7974
SEQUENCE1632	johOa004b01t1	7975
SEQUENCE1633	johOa004b10t1	7976
SEQUENCE1634	johOa004c03t1	7977
SEQUENCE1636	johOa004e03t1	7978
SEQUENCE1637	johOa004f01t1	7979
SEQUENCE1638	johOa004f04t1	7980
SEQUENCE1639	johOa004f10t1	7981
SEQUENCE1640	johOa004g07t1	7982
SEQUENCE1641	johOa004h01t1	7983
SEQUENCE1642	johOa004h04t1	7984
SEQUENCE1643	johOa005a02t2	7985
SEQUENCE1644	johOa005a06t2	7986
SEQUENCE1645	johOa005b06t2	7987
SEQUENCE1646	johOa005b09t2	7988
SEQUENCE1647	johOa005d03t2	7989
SEQUENCE1648	johOa005e03t2	7990
SEQUENCE1649	johOa005e07t2	7991
SEQUENCE1650	johOa005f01t2	7992
SEQUENCE1651	johOa005g01t2	7993
SEQUENCE1652	johOa005g05t2	7994
SEQUENCE1653	johOa005g10t2	7995
SEQUENCE1654	johOa006a02t2	7996
SEQUENCE1655	johOa006d02t2	7997
SEQUENCE1656	johOa006e04t2	7998
SEQUENCE1657	johOa006h03t2	7999
SEQUENCE1658	johOa006h04t2	8000
SEQUENCE1659	johOa006h06t2	8001
SEQUENCE1660	johOa007c05t2	8002

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SEQUENCE1661	johOa007d09t2	8003
SEQUENCE1662	johOa007f01t2	8004
SEQUENCE1663	johOa007f05t2	8005
SEQUENCE1664	johOa007g09t2	8006
SEQUENCE1665	johOa007h03t2	8007
SEQUENCE1666	johOa007h08t2	8008
SEQUENCE1667	johOa009a10t2	8009
SEQUENCE1668	johOa009a11t2	8010
SEQUENCE1670	johOa009d10t2	8011
SEQUENCE1671	johOa009e10t2	8012
SEQUENCE1672	johOa009e12t2	8013
SEQUENCE1673	johOa009f06t2	8014
SEQUENCE1674	johOa009g11t2	8015
SEQUENCE1675	johOa010a10t2	8016
SEQUENCE1676	johOa010c04t2	8017
SEQUENCE1677	johOa010d02t2	8018
SEQUENCE1678	johOa010d11t2	8019
SEQUENCE1679	johOa010e05t2	8020
SEQUENCE1680	johOa010e07t2	8021
SEQUENCE1681	johOa010f04t2	8022
SEQUENCE1682	johOa010g04t2	8023
SEQUENCE1683	johOa010g12t2	8024
SEQUENCE1685	johOa011e10t1	8025
SEQUENCE1686	johOa011f11t1	8026
SEQUENCE1687	johOa011g11t1	8027
SEQUENCE1688	johOa011h10t1	8028
SEQUENCE1689	johOa012a07t1	8029
SEQUENCE1690	johOa012b02t1	8030
SEQUENCE1692	johOa012e02t1	8031
SEQUENCE1693	johOa012f02t1	8032
SEQUENCE1694	johOa012f03t1	8033
SEQUENCE1695	johOa012f05t1	8034
SEQUENCE1696	johOa012f10t1	8035
SEQUENCE1697	johOa012g12t1	8036
SEQUENCE1698	johOa012h02t1	8037
SEQUENCE1699	johOa012h03t1	8038
SEQUENCE1700	johOa012h06t1	8039
SEQUENCE1701	johOa013a12t1	8040
SEQUENCE1702	johOa013b03t1	8041
SEQUENCE1703	johOa013b05t1	8042
SEQUENCE1704	johOa013b06t1	8043
SEQUENCE1705	johOa013c02t1	8044
SEQUENCE1706	johOa013d02t1	8045
SEQUENCE1707	johOa013d03t1	8046
SEQUENCE1708	johOa013d04t1	8047
SEQUENCE1709	johOa013e09t1	8048
SEQUENCE1710	johOa013f01t1	8049
SEQUENCE1711	johOa013g11t1	8050
SEQUENCE1712	johOa014a08t1	8051
SEQUENCE1713	johOa014d02t1	8052
SEQUENCE1714	johOa014d10t1	8053
SEQUENCE1715	johOa014f02t1	8054
SEQUENCE1716	johOa014g06t1	8055

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SEQUENCE1717	johOa014h03t1	8056
SEQUENCE1718	johOa015e03t1	8057
SEQUENCE1719	johOa015f09t1	8058
SEQUENCE1720	johOa015h04t1	8059
SEQUENCE1721	johOa015h06t1	8060
SEQUENCE1722	johOa016a09t1	8061
SEQUENCE1723	johOa016b11t1	8062
SEQUENCE1724	johOa016d08t1	8063
SEQUENCE1725	johOa016f03t1	8064
SEQUENCE1726	johOa016g12t1	8065
SEQUENCE1727	johOa016h05t1	8066
SEQUENCE1728	johOa016h09t1	8067
SEQUENCE1730	johOa018e01t1	8068
SEQUENCE1731	johOa019c05t1	8069
SEQUENCE1732	johOa019e08t1	8070
SEQUENCE1733	johOa019g01t1	8071
SEQUENCE1735	johOa019h08t1	8072
SEQUENCE1736	johOa020b09t1	8073
SEQUENCE1737	johOa020b11t1	8074
SEQUENCE1738	johOa020c09t1	8075
SEQUENCE1739	johOa020e08t1	8076
SEQUENCE1740	johOa020e09t1	8077
SEQUENCE1741	johOa020f08t1	8078
SEQUENCE1742	johOa024d01t1	8079
SEQUENCE1743	johOa025a09t1	8080
SEQUENCE1744	johOa025b05t1	8081
SEQUENCE1745	johOa025b08t1	8082
SEQUENCE1746	johOa025b09t1	8083
SEQUENCE1747	johOa025d02t1	8084
SEQUENCE1748	johOa025d11t1	8085
SEQUENCE1749	johOa025e11t1	8086
SEQUENCE1750	johOa025e12t1	8087
SEQUENCE1752	johOa025h02t1	8088
SEQUENCE1753	johOa027a04t1	8089
SEQUENCE1754	johOa027b09t1	8090
SEQUENCE1755	johOa027e09t1	8091
SEQUENCE1756	johOa027f01t1	8092
SEQUENCE1757	johOa027f11t1	8093
SEQUENCE1758	johOa028a08t1	8094
SEQUENCE1759	johOa028b11t1	8095
SEQUENCE1760	johOa028f04t1	8096
SEQUENCE1761	johOa028f10t1	8097
SEQUENCE1762	johOa028h01t1	8098
SEQUENCE1763	johOa029a05t1	8099
SEQUENCE1764	johOa029b04t1	8100
SEQUENCE1766	johOa029c07t1	8101
SEQUENCE1768	johOa029g09t1	8102
SEQUENCE1769	johOa030a01t1	8103
SEQUENCE1770	johOa030b01t1	8104
SEQUENCE1771	johOa030h02t1	8105
SEQUENCE1772	johOa030h05t1	8106
SEQUENCE1773	johOa031a01t1	8107
SEQUENCE1774	johOa031a08t1	8108

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SEQUENCE1775	johOa031a09t1	8109
SEQUENCE1776	johOa031b07t1	8110
SEQUENCE1777	johOa031d11t1	8111
SEQUENCE1778	johOa031e09t1	8112
SEQUENCE1779	johOa031h06t1	8113
SEQUENCE1780	johOa037a09t1	8114
SEQUENCE1781	johOa037g05t1	8115
SEQUENCE1782	johOa038e07t1	8116
SEQUENCE1783	johOa038e12t1	8117
SEQUENCE1784	johOa038h09t1	8118
SEQUENCE1785	johOa039a03t1	8119
SEQUENCE1786	johOa039g07t1	8120
SEQUENCE1787	johOa039g08t1	8121
SEQUENCE1788	johOa039h02t1	8122
SEQUENCE1789	johOa039h04t1	8123
SEQUENCE1790	johOa040b09t1	8124
SEQUENCE1791	johOa040c12t1	8125
SEQUENCE1792	johOa040e09t1	8126
SEQUENCE1793	johOa040e11t1	8127
SEQUENCE1794	johOa040f07t1	8128
SEQUENCE1795	johOa044a01t1	8129
SEQUENCE1796	johOa044a04t1	8130
SEQUENCE1797	johOa045g02t1	8131
SEQUENCE1798	johOa047a04t1	8132
SEQUENCE1799	johOa047h03t1	8133
SEQUENCE1800	johOa048b06t1	8134
SEQUENCE1801	johOa048c08t1	8135
SEQUENCE1802	johOa048g07t1	8136
SEQUENCE1803	johOa050b04t1	8137
SEQUENCE1804	johOa050b06t1	8138
SEQUENCE1805	johOa050e11t1	8139
SEQUENCE1806	johOa051d10t1	8140
SEQUENCE1807	johOa051d12t1	8141
SEQUENCE1808	johOa051e12t1	8142
SEQUENCE1809	johOa052c04t1	8143
SEQUENCE1810	johOa052c09t1	8144
SEQUENCE1811	johOa052g02t1	8145
SEQUENCE1812	johOa052h03t1	8146
SEQUENCE1813	johOa053a01t1	8147
SEQUENCE1815	johOa053f06t1	8148
SEQUENCE1816	johOa054a04t1	8149
SEQUENCE1817	johOa054a10t1	8150
SEQUENCE1818	johOa054b07t1	8151
SEQUENCE1819	johOa054e01t1	8152
SEQUENCE1820	johOa054e09t1	8153
SEQUENCE1821	johOa054f01t1	8154
SEQUENCE1822	johOa054f06t1	8155
SEQUENCE1823	johOa054f07t1	8156
SEQUENCE1824	johOa054g08t1	8157
SEQUENCE1825	johOa056a02t1	8158
SEQUENCE1826	johOa056e05t1	8159
SEQUENCE1827	johOa056e10t1	8160
SEQUENCE1828	johOa056g12t1	8161

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SEQUENCE1829	johOa057d11t1	8162
SEQUENCE1830	johOa057e07t1	8163
SEQUENCE1831	johOa058a03t1	8164
SEQUENCE1832	johOa058b02t1	8165
SEQUENCE1833	johOa058b11t1	8166
SEQUENCE1834	johOa058c05t1	8167
SEQUENCE1835	johOa058c07t1	8168
SEQUENCE1836	johOa058e07t1	8169
SEQUENCE1837	johOa058e08t1	8170
SEQUENCE1838	johOa058f06t1	8171
SEQUENCE1839	johOa060c01t1	8172
SEQUENCE1840	johOa060h07t1	8173
SEQUENCE1841	johOa062c03t1	8174
SEQUENCE1842	johOa067a09t1	8175
SEQUENCE1843	johOa067b02t1	8176
SEQUENCE1844	johOa067c02t1	8177
SEQUENCE1845	johOa067e11t1	8178
SEQUENCE1846	johOa067g01t1	8179
SEQUENCE1847	johOa068b04t1	8180
SEQUENCE1848	johOa068c07t1	8181
SEQUENCE1849	johOa068e10t1	8182
SEQUENCE1850	johOa068f08t1	8183
SEQUENCE1851	johOa068g05t1	8184
SEQUENCE1852	johOa068h04t1	8185
SEQUENCE1853	johOa070a11t1	8186
SEQUENCE1854	johOa070b01t1	8187
SEQUENCE1855	johOa070b05t1	8188
SEQUENCE1856	johOa070b08t1	8189
SEQUENCE1857	johOa070b09t1	8190
SEQUENCE1858	johOa070c01t1	8191
SEQUENCE1859	johOa070c12t1	8192
SEQUENCE1860	johOa070e05t1	8193
SEQUENCE1861	johOa070e08t1	8194
SEQUENCE1862	johOa070f09t1	8195
SEQUENCE1863	johOa070g05t1	8196
SEQUENCE1864	johOa070g09t1	8197
SEQUENCE1865	johOa070h11t1	8198
SEQUENCE1866	johOb001c05t1	8199
SEQUENCE1867	johOb001c07t1	8200
SEQUENCE1868	johOb001e12t1	8201
SEQUENCE1869	johOb001g06t1	8202
SEQUENCE1870	johOb001h03t1	8203
SEQUENCE1871	johOb001h11t1	8204
SEQUENCE1872	johOb002c09t1	8205
SEQUENCE1873	johOb002f03t1	8206
SEQUENCE1874	johOb002f10t1	8207
SEQUENCE1875	johOb002h05t1	8208
SEQUENCE1876	johOb003a05t1	8209
SEQUENCE1877	johOb003a12t1	8210
SEQUENCE1878	johOb003b07t1	8211
SEQUENCE1879	johOb003c06t1	8212
SEQUENCE1880	johOb003d03t1	8213
SEQUENCE1881	johOb003d09t1	8214

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SEQUENCE1882	johOb003f03t1	8215
SEQUENCE1883	johOb003f08t1	8216
SEQUENCE1884	johOb003f11t1	8217
SEQUENCE1885	johOb004c09t1	8218
SEQUENCE1886	johOb004c12t1	8219
SEQUENCE1887	johOb004e10t1	8220
SEQUENCE1888	johOb004g04t1	8221
SEQUENCE1889	johOb004g05t1	8222
SEQUENCE1890	johOb004g09t1	8223
SEQUENCE1891	johOb004h12t1	8224
SEQUENCE1892	johOb005a09t1	8225
SEQUENCE1893	johOb005h02t1	8226
SEQUENCE1894	johOb006a05t1	8227
SEQUENCE1895	johOb006d04t1	8228
SEQUENCE1896	johOb006f11t1	8229
SEQUENCE1897	johOb006g05t1	8230
SEQUENCE1898	johOb006g07t1	8231
SEQUENCE1899	johOb007d05t2	8232
SEQUENCE1900	johOb008f10t1	8233
SEQUENCE1901	johOb008g06t1	8234
SEQUENCE1902	johOb008h12t1	8235
SEQUENCE1903	johOb010a07t1	8236
SEQUENCE1904	johOb010f10t1	8237
SEQUENCE1905	johOb011b09t1	8238
SEQUENCE1906	johOb011e04t1	8239
SEQUENCE1907	johOb011e10t1	8240
SEQUENCE1908	johOb011e12t1	8241
SEQUENCE1909	johOb011h08t1	8242
SEQUENCE1910	johOb012b08t1	8243
SEQUENCE1911	johOb012c09t1	8244
SEQUENCE1912	johOb012f06t1	8245
SEQUENCE1913	johOb012h11t1	8246
SEQUENCE1914	johOb013b08t1	8247
SEQUENCE1915	johOb013c04t1	8248
SEQUENCE1916	johOb013c09t1	8249
SEQUENCE1917	johOb013f01t1	8250
SEQUENCE1918	johOb014b09t1	8251
SEQUENCE1919	johOb014c02t1	8252
SEQUENCE1920	johOb014c03t1	8253
SEQUENCE1921	johOb014f05t1	8254
SEQUENCE1922	johOb014g07t1	8255
SEQUENCE1923	johOb014h11t1	8256
SEQUENCE1924	johOb015a11t1	8257
SEQUENCE1925	johOb015d01t1	8258
SEQUENCE1926	johOb015d05t1	8259
SEQUENCE1927	johOb015f07t1	8260
SEQUENCE1928	johOb015g01t1	8261
SEQUENCE1929	johOb015g07t1	8262
SEQUENCE1930	johOb015h05t1	8263
SEQUENCE1931	johOb016g09t1	8264
SEQUENCE1932	johOb016h02t1	8265
SEQUENCE1933	johOb017c07t1	8266
SEQUENCE1934	johOb018a02t1	8267

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SEQUENCE1935	johOb018f01t1	8268
SEQUENCE1936	johOb018f04t1	8269
SEQUENCE1937	johOb018f12t1	8270
SEQUENCE1938	johOb018g06t1	8271
SEQUENCE1939	johOb018h04t1	8272
SEQUENCE1940	johOb019a08t1	8273
SEQUENCE1941	johOb019e03t1	8274
SEQUENCE1942	johOb019h02t1	8275
SEQUENCE1943	johOb020a02t1	8276
SEQUENCE1944	johOb020c01t1	8277
SEQUENCE1945	johOb020e04t1	8278
SEQUENCE1946	johOb020f02t1	8279
SEQUENCE1947	johOb021a11t1	8280
SEQUENCE1948	johOb021f01t1	8281
SEQUENCE1949	johOb021g03t1	8282
SEQUENCE1950	johOb021g06t1	8283
SEQUENCE1951	johOb021h11t1	8284
SEQUENCE1952	johOb021h12t1	8285
SEQUENCE1953	johOb022a04t1	8286
SEQUENCE1954	johOb022a05t1	8287
SEQUENCE1955	johOb022b11t1	8288
SEQUENCE1956	johOb022d02t1	8289
SEQUENCE1957	johOb022d04t1	8290
SEQUENCE1958	johOb022e09t1	8291
SEQUENCE1959	johOb022f03t1	8292
SEQUENCE1960	johOb023a04t1	8293
SEQUENCE1961	johOb023e08t1	8294
SEQUENCE1963	johOb023g07t1	8295
SEQUENCE1964	johOb024b11t1	8296
SEQUENCE1965	johOb024d11t1	8297
SEQUENCE1966	johOb024e11t1	8298
SEQUENCE1967	johOb024g12t1	8299
SEQUENCE1968	johOb025b01t1	8300
SEQUENCE1969	johOb025d05t1	8301
SEQUENCE1970	johOb025e04t1	8302
SEQUENCE1971	johOb025f02t1	8303
SEQUENCE1972	johOb025f05t1	8304
SEQUENCE1973	johOb025g12t1	8305
SEQUENCE1974	johOb025h08t1	8306
SEQUENCE1975	johOc001a02t1	8307
SEQUENCE1976	johOc001a06t1	8308
SEQUENCE1977	johOc001b02t1	8309
SEQUENCE1978	johOc001c05t1	8310
SEQUENCE1979	johOc001c10t1	8311
SEQUENCE1980	johOc001d04t1	8312
SEQUENCE1981	johOc001d10t1	8313
SEQUENCE1982	johOc001d11t1	8314
SEQUENCE1983	johOc001d12t1	8315
SEQUENCE1984	johOc001e08t1	8316
SEQUENCE1985	johOc001f08t1	8317
SEQUENCE1986	johOc001g05t1	8318
SEQUENCE1987	johOc001h02t1	8319
SEQUENCE1988	johOc001h07t1	8320

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SEQUENCE1989	johOc002b11t1	8321
SEQUENCE1990	johOc002e05t1	8322
SEQUENCE1991	johOc002h10t1	8323
SEQUENCE1992	johOc003c01t1	8324
SEQUENCE1993	johOc003d02t1	8325
SEQUENCE1994	johOc003e08t1	8326
SEQUENCE1995	johOc003f01t1	8327
SEQUENCE1996	johOc003h05t1	8328
SEQUENCE1997	johOc004b10t1	8329
SEQUENCE1998	johOc004c08t1	8330
SEQUENCE1999	johOc005a05t1	8331
SEQUENCE2000	johOc005f11t1	8332
SEQUENCE2001	johOc005g03t1	8333
SEQUENCE2002	johOc006a12t1	8334
SEQUENCE2003	johOc006c10t1	8335
SEQUENCE2004	johOc006c12t1	8336
SEQUENCE2005	johOc006e08t1	8337
SEQUENCE2006	johOc006f05t1	8338
SEQUENCE2007	johOc006h02t1	8339
SEQUENCE2008	johOc007a08t1	8340
SEQUENCE2009	johOc007c02t1	8341
SEQUENCE2010	johOc007e03t1	8342
SEQUENCE2011	johOc007e10t1	8343
SEQUENCE2012	johOc007f05t1	8344
SEQUENCE2013	johOc007h10t1	8345
SEQUENCE2014	johOc008a11t1	8346
SEQUENCE2015	johOc008d05t1	8347
SEQUENCE2016	johOc008d07t1	8348
SEQUENCE2017	johOc008d09t1	8349
SEQUENCE2018	johOc008d12t1	8350
SEQUENCE2019	johOc008e11t1	8351
SEQUENCE2020	johOc008f06t1	8352
SEQUENCE2021	johOc008g09t1	8353
SEQUENCE2022	johOc008h01t1	8354
SEQUENCE2023	johOc009c04t1	8355
SEQUENCE2024	johOc009c06t1	8356
SEQUENCE2025	johOc009d07t1	8357
SEQUENCE2026	johOc009e05t1	8358
SEQUENCE2027	johOc009f11t1	8359
SEQUENCE2028	johOc009h05t1	8360
SEQUENCE2029	johOc010a04t1	8361
SEQUENCE2030	johOc010a11t1	8362
SEQUENCE2031	johOc010f12t1	8363
SEQUENCE2032	johOc011a01t1	8364
SEQUENCE2033	johOc011a02t1	8365
SEQUENCE2034	johOc011b03t1	8366
SEQUENCE2035	johOc011b08t1	8367
SEQUENCE2036	johOc011c03t1	8368
SEQUENCE2037	johOc011d05t1	8369
SEQUENCE2038	johOc011e07t1	8370
SEQUENCE2039	johOc011g09t1	8371
SEQUENCE2040	johOc011h06t1	8372
SEQUENCE2041	johOc012g07t1	8373

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SEQUENCE2042	johOc013c06t1	8374
SEQUENCE2043	johOc013e03t1	8375
SEQUENCE2044	johOc013f05t1	8376
SEQUENCE2045	johOc013g05t1	8377
SEQUENCE2046	johOc013g09t1	8378
SEQUENCE2047	johOc014b08t1	8379
SEQUENCE2048	johOc014b10t1	8380
SEQUENCE2049	johOc014c08t1	8381
SEQUENCE2050	johOc014d11t1	8382
SEQUENCE2051	johOc014e09t1	8383
SEQUENCE2052	johOc014g11t1	8384
SEQUENCE2053	johOc014h05t1	8385
SEQUENCE2054	johOc014h07t1	8386
SEQUENCE2055	johOc015h09t1	8387
SEQUENCE2056	johOc015h10t1	8388
SEQUENCE2057	johOc016b12t1	8389
SEQUENCE2058	johOc016c02t1	8390
SEQUENCE2059	johOc016d10t1	8391
SEQUENCE2060	johOc016f10t1	8392
SEQUENCE2061	johOd001a05b1	8393
SEQUENCE2062	johOd001b05a1	8394
SEQUENCE2063	johOd001b08b1	8395
SEQUENCE2064	johOd001d10a1	8396
SEQUENCE2066	johOd001e01b1	8397
SEQUENCE2067	johOd001e04b1	8398
SEQUENCE2068	johOd001e09b1	8399
SEQUENCE2069	johOd001f07b1	8400
SEQUENCE2070	johOd001f09a1	8401
SEQUENCE2071	johOd001g06b1	8402
SEQUENCE2072	johOd001g07b1	8403
SEQUENCE2073	johOd001h02a1	8404
SEQUENCE2074	johOd001h05a1	8405
SEQUENCE2075	johOd001h08a1	8406
SEQUENCE2076	johOd001h10b1	8407
SEQUENCE2078	johOd002d08b1	8408
SEQUENCE2079	johOd002e06a1	8409
SEQUENCE2080	johOd002e10a1	8410
SEQUENCE2081	johOd002e12a1	8411
SEQUENCE2082	johOd002h06a1	8412
SEQUENCE2084	johOd003a09a1	8413
SEQUENCE2085	johOd003c04b1	8414
SEQUENCE2086	johOd003d06b1	8415
SEQUENCE2087	johOd003f03a1	8416
SEQUENCE2088	johOd003g07a1	8417
SEQUENCE2089	johOd003h04b1	8418
SEQUENCE2090	johOd004a10a1	8419
SEQUENCE2091	johOd004d01b1	8420
SEQUENCE2092	johOd004f05a1	8421
SEQUENCE2093	johOd005c07t1	8422
SEQUENCE2094	johOd005g01t1	8423
SEQUENCE2095	johOd005g09t1	8424
SEQUENCE2096	johOd006f07t2	8425
SEQUENCE2097	johOd006f10t2	8426

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SEQUENCE2098	johOd007f06t2	8427
SEQUENCE2099	johOd009d02t2	8428
SEQUENCE2100	johOd013c04t2	8429
SEQUENCE2101	johOd014h12t2	8430
SEQUENCE2102	johOd015a05t2	8431
SEQUENCE2103	johOd015g08t2	8432
SEQUENCE2104	johOd015h01t2	8433
SEQUENCE2105	johOd015h06t2	8434
SEQUENCE2106	johOd031b10t2	8435
SEQUENCE2107	johOd031e04t2	8436
SEQUENCE2108	johOd031e09t2	8437
SEQUENCE2109	johOd031e12t2	8438
SEQUENCE2110	johOd031f01t2	8439
SEQUENCE2111	johOd031g08t2	8440
SEQUENCE2112	johOd031h05t2	8441
SEQUENCE2113	johOd033f01a1	8442
SEQUENCE2114	johOd035d06t1	8443
SEQUENCE2115	johOd035e04a1	8444
SEQUENCE2116	johOd037a05a1	8445
SEQUENCE2117	johOd037c06a1	8446
SEQUENCE2119	johOd037e07a1	8447
SEQUENCE2120	johOd037e10a1	8448
SEQUENCE2121	johOd037h08a1	8449
SEQUENCE2122	johOd039e12a1	8450
SEQUENCE2123	johOd039g08a1	8451
SEQUENCE2124	johOd040c11a2	8452
SEQUENCE2125	johOd045c04a1	8453
SEQUENCE2126	johOd045c10a1	8454
SEQUENCE2127	johOd046a05a1	8455
SEQUENCE2128	johOd046e05a1	8456
SEQUENCE2129	johOd046g02a1	8457
SEQUENCE2130	johOd046h01a1	8458
SEQUENCE2131	johOd047a01a1	8459
SEQUENCE2132	johOd047d01a1	8460
SEQUENCE2133	johOd047h01a1	8461
SEQUENCE2134	johOd048e11a2	8462
SEQUENCE2135	johOd048f09a2	8463
SEQUENCE2136	johOd048h04a2	8464
SEQUENCE2137	johOd048h12a2	8465
SEQUENCE2138	johOd049c08a2	8466
SEQUENCE2139	johOd050c03a2	8467
SEQUENCE2140	johOd050d12a2	8468
SEQUENCE2141	johOd052a01a1	8469
SEQUENCE2142	johOd052c12a1	8470
SEQUENCE2143	johOd053a04a2	8471
SEQUENCE2144	johOd053f02a2	8472
SEQUENCE2145	johOd054c02a1	8473
SEQUENCE2146	johOd054d02a1	8474
SEQUENCE2147	johOd054d10a1	8475
SEQUENCE2148	johOd055b07a2	8476
SEQUENCE2149	johOd055b08a2	8477
SEQUENCE2150	johOd056b06a1	8478
SEQUENCE2151	johOd056c02a1	8479

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SEQUENCE2152	johOd056e11a1	8480
SEQUENCE2153	johOd056g03a1	8481
SEQUENCE2154	johOd057a11a1	8482
SEQUENCE2155	johOd060b06a2	8483
SEQUENCE2156	johOd060c06a2	8484
SEQUENCE2157	johOd060d03a2	8485
SEQUENCE2158	johOd060f01a2	8486
SEQUENCE2159	johOd060f06a2	8487
SEQUENCE2160	johOd061a01a2	8488
SEQUENCE2161	johOd061a12a2	8489
SEQUENCE2162	johOd061e08a2	8490
SEQUENCE2163	johOd062a04a2	8491
SEQUENCE2164	johOd062b08a2	8492
SEQUENCE2165	johOd062g01a2	8493
SEQUENCE2166	johOd062h04a2	8494
SEQUENCE2167	johOd063c02a2	8495
SEQUENCE2168	johOd063d05a2	8496
SEQUENCE2170	johOd064b08a2	8497
SEQUENCE2171	johOd064b09a2	8498
SEQUENCE2172	johOd064d03a2	8499
SEQUENCE2173	johOd064d11a2	8500
SEQUENCE2174	johOd065h08a2	8501
SEQUENCE2175	johOd067f09a1	8502
SEQUENCE2176	johOd068b07a1	8503
SEQUENCE2177	johOd068c02a1	8504
SEQUENCE2178	johOd068e09a1	8505
SEQUENCE2179	johOd068h11a1	8506
SEQUENCE2180	johOd069a05a2	8507
SEQUENCE2181	johOd069a10a2	8508
SEQUENCE2182	johOd069b06a2	8509
SEQUENCE2183	johOd069d10a2	8510
SEQUENCE2184	johOd070a01a2	8511
SEQUENCE2185	johOd070a11a2	8512
SEQUENCE2186	johOd070d08a2	8513
SEQUENCE2187	johOd070f08a2	8514
SEQUENCE2188	johOd071b09a2	8515
SEQUENCE2189	johOd071b12a2	8516
SEQUENCE2190	johOd071d07a2	8517
SEQUENCE2191	johOd071f01a2	8518
SEQUENCE2192	johOd072b05a1	8519
SEQUENCE2193	johOd083a02a1	8520
SEQUENCE2194	johOd083b06a1	8521
SEQUENCE2195	johOd083d10a1	8522
SEQUENCE2196	johOd083e04a1	8523
SEQUENCE2198	johOd084c03a1	8524
SEQUENCE2199	johOd085b02a1	8525
SEQUENCE2200	johOd085e12a1	8526
SEQUENCE2201	johOd085f06a1	8527
SEQUENCE2202	johOd086b01a2	8528
SEQUENCE2203	johOd087c01a2	8529
SEQUENCE2204	johOd087g09a2	8530
SEQUENCE2205	johOd087h05a2	8531
SEQUENCE2206	johOd087h07a2	8532

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SEQUENCE2207	johOd087h11a2	8533
SEQUENCE2208	johOd088a07a2	8534
SEQUENCE2209	johOd088h09a2	8535
SEQUENCE2210	johOd089c12a1	8536
SEQUENCE2211	johOd089f03a1	8537
SEQUENCE2212	johOd090a06a1	8538
SEQUENCE2213	johOd090b05a1	8539
SEQUENCE2214	johOd090c01a1	8540
SEQUENCE2215	johOd090c04a1	8541
SEQUENCE2216	johOd090d10a1	8542
SEQUENCE2217	johOd090f09a1	8543
SEQUENCE2218	johOd091b11a1	8544
SEQUENCE2219	johOd091e02a1	8545
SEQUENCE2220	johOd091e10a1	8546
SEQUENCE2221	johOd091g06a1	8547
SEQUENCE2222	johOd092c06a1	8548
SEQUENCE2223	johOd092c09a1	8549
SEQUENCE2224	johOd092d07a1	8550
SEQUENCE2225	johOd092f10a1	8551
SEQUENCE2226	johOd093b06a1	8552
SEQUENCE2227	johOd093b11a1	8553
SEQUENCE2228	johOd093e04a1	8554
SEQUENCE2229	johOd093f12a1	8555
SEQUENCE2230	johOd093g05a1	8556
SEQUENCE2231	johOd094e04a1	8557
SEQUENCE2232	johOd094g08a1	8558
SEQUENCE2233	johOd094h02a1	8559
SEQUENCE2234	johOd094h03a1	8560
SEQUENCE2235	johOd095a08a1	8561
SEQUENCE2236	johOd095a10a1	8562
SEQUENCE2237	johOd095c08a1	8563
SEQUENCE2238	johOd095h08a1	8564
SEQUENCE2239	johOd096b07a1	8565
SEQUENCE2240	johOd096c08a1	8566
SEQUENCE2241	johOd096c09a1	8567
SEQUENCE2242	johOd096d02a1	8568
SEQUENCE2243	johOd096h08a1	8569
SEQUENCE2244	johOdReA002d07a1	8570
SEQUENCE2245	johOe001a12a1	8571
SEQUENCE2246	johOe001c03a1	8572
SEQUENCE2247	johOe001c07a1	8573
SEQUENCE2248	johOe001c12a1	8574
SEQUENCE2249	johOe001d04a1	8575
SEQUENCE2250	johOe001e04a1	8576
SEQUENCE2251	johOe001e05a1	8577
SEQUENCE2252	johOe001f01a1	8578
SEQUENCE2253	johOe001f11a1	8579
SEQUENCE2254	johOe001g03a1	8580
SEQUENCE2255	johOe001g06a1	8581
SEQUENCE2256	johOe001g07a1	8582
SEQUENCE2257	johOe002a01a1	8583
SEQUENCE2258	johOe002a05a1	8584
SEQUENCE2259	johOe002b01a1	8585

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SEQUENCE2260	johOe002b06a1	8586
SEQUENCE2261	johOe003a05a1	8587
SEQUENCE2262	johOe003a12a1	8588
SEQUENCE2263	johOe003b07a1	8589
SEQUENCE2264	johOe003c09a1	8590
SEQUENCE2265	johOe003d09a1	8591
SEQUENCE2266	johOe003e12a1	8592
SEQUENCE2267	johOe003f08a1	8593
SEQUENCE2268	johOe003h11a1	8594
SEQUENCE2269	johOe004a12a2	8595
SEQUENCE2270	johOe004b07a2	8596
SEQUENCE2271	johOe004c01a2	8597
SEQUENCE2272	johOe004c08a2	8598
SEQUENCE2273	johOe004d02a2	8599
SEQUENCE2274	johOe004d05a2	8600
SEQUENCE2275	johOe004d10a2	8601
SEQUENCE2276	johOe004d11a2	8602
SEQUENCE2277	johOe004e02a2	8603
SEQUENCE2278	johOe004e04a2	8604
SEQUENCE2279	johOe004f10a2	8605
SEQUENCE2280	johOe004h01a2	8606
SEQUENCE2281	johOe004h12a2	8607
SEQUENCE2282	johOe005b10a2	8608
SEQUENCE2283	johOe005c01a2	8609
SEQUENCE2284	johOe005c08a2	8610
SEQUENCE2285	johOe005d01a2	8611
SEQUENCE2286	johOe005e06a2	8612
SEQUENCE2287	johOe005f02a2	8613
SEQUENCE2288	johOe005f11a2	8614
SEQUENCE2289	johOe005g12a2	8615
SEQUENCE2290	johOe006a02a2	8616
SEQUENCE2291	johOe006a06a2	8617
SEQUENCE2292	johOe006a07a2	8618
SEQUENCE2293	johOe006c07a2	8619
SEQUENCE2294	johOe006d06a2	8620
SEQUENCE2295	johOe006e08a2	8621
SEQUENCE2296	johOe006e10a2	8622
SEQUENCE2297	johOe006f08a2	8623
SEQUENCE2298	johOe006h06a2	8624
SEQUENCE2299	johOe006h11a2	8625
SEQUENCE2300	johOe007c02a2	8626
SEQUENCE2301	johOe007g05a2	8627
SEQUENCE2302	johOe008a02a2	8628
SEQUENCE2303	johOe008a05a2	8629
SEQUENCE2304	johOe008b06a2	8630
SEQUENCE2305	johOe008d01a2	8631
SEQUENCE2306	johOe008d05a2	8632
SEQUENCE2308	johOe008g03a2	8633
SEQUENCE2309	johOe008g04a2	8634
SEQUENCE2310	johOe009a08a2	8635
SEQUENCE2311	johOe009c10a2	8636
SEQUENCE2312	johOe009e03a2	8637
SEQUENCE2313	johOe009e04a2	8638

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SEQUENCE2314	johOe009e07a2	8639
SEQUENCE2315	johOe009f03a2	8640
SEQUENCE2316	johOe009g02a2	8641
SEQUENCE2317	johOe009h02a2	8642
SEQUENCE2318	johOe010a03a2	8643
SEQUENCE2319	johOe010b10a2	8644
SEQUENCE2320	johOe010d03a2	8645
SEQUENCE2321	johOe010e03a2	8646
SEQUENCE2322	johOe010e11a2	8647
SEQUENCE2323	johOe010f07a2	8648
SEQUENCE2324	johOe011a08a2	8649
SEQUENCE2325	johOe011a12a2	8650
SEQUENCE2326	johOe011b11a2	8651
SEQUENCE2327	johOe011c08a2	8652
SEQUENCE2328	johOe011d04a2	8653
SEQUENCE2329	johOe011f07a2	8654
SEQUENCE2330	johOe011g03a2	8655
SEQUENCE2331	johOe011g04a2	8656
SEQUENCE2332	johOe012a08a2	8657
SEQUENCE2333	johOe012c07a2	8658
SEQUENCE2334	johOe012f04a2	8659
SEQUENCE2335	johOe012g04a2	8660
SEQUENCE2336	johOe012h05a2	8661
SEQUENCE2337	johOe012h06a2	8662
SEQUENCE2338	johOe014a08a1	8663
SEQUENCE2339	johOe014a10a1	8664
SEQUENCE2340	johOe014a11a1	8665
SEQUENCE2341	johOe014b06a1	8666
SEQUENCE2342	johOe014b10a1	8667
SEQUENCE2343	johOe014b12a1	8668
SEQUENCE2344	johOe014c08a1	8669
SEQUENCE2345	johOe014e04a1	8670
SEQUENCE2346	johOe014g09a1	8671
SEQUENCE2347	johOe014h07a1	8672
SEQUENCE2348	johOe014h08a1	8673
SEQUENCE2349	johOe015a08a1	8674
SEQUENCE2350	johOe015c12a1	8675
SEQUENCE2351	johOe015d08a1	8676
SEQUENCE2353	johOe015e10a1	8677
SEQUENCE2354	johOe015e11a1	8678
SEQUENCE2355	johOe015f08a1	8679
SEQUENCE2356	johOe015g02a1	8680
SEQUENCE2357	johOe016b03a1	8681
SEQUENCE2358	johOe016b07a1	8682
SEQUENCE2359	johOe016b08a1	8683
SEQUENCE2360	johOe016c03a1	8684
SEQUENCE2361	johOe016d12a1	8685
SEQUENCE2362	johOe016f03a1	8686
SEQUENCE2363	johOe016g03a1	8687
SEQUENCE2364	johOe016h02a1	8688
SEQUENCE2365	johOe016h09a1	8689
SEQUENCE2366	johOe016h12a1	8690
SEQUENCE2367	johOe017d02a1	8691

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SEQUENCE2368	johOe017e03a1	8692
SEQUENCE2369	johOe017f06a1	8693
SEQUENCE2370	johOe017f08a1	8694
SEQUENCE2371	johOe017g01a1	8695
SEQUENCE2372	johOe018a02a1	8696
SEQUENCE2373	johOe018a03a1	8697
SEQUENCE2374	johOe018d01a1	8698
SEQUENCE2375	johOe018d12a1	8699
SEQUENCE2376	johOe019b08a1	8700
SEQUENCE2377	johOe019d06a1	8701
SEQUENCE2378	johOe019e05a1	8702
SEQUENCE2379	johOe022c04a1	8703
SEQUENCE2380	johOe022c07a1	8704
SEQUENCE2381	johOe022e10a1	8705
SEQUENCE2383	johOe022g11a1	8706
SEQUENCE2384	johOe024b04a1	8707
SEQUENCE2385	johOe024b05a1	8708
SEQUENCE2386	johOe024b10a1	8709
SEQUENCE2387	johOe024c10a1	8710
SEQUENCE2388	johOe024e02a1	8711
SEQUENCE2389	johOe024f07a1	8712
SEQUENCE2390	johOe024f11a1	8713
SEQUENCE2391	johOe025c11a1	8714
SEQUENCE2392	johOe025d10a1	8715
SEQUENCE2393	johOe025g02a1	8716
SEQUENCE2394	johOe025h01a1	8717
SEQUENCE2395	johOe025h02a1	8718
SEQUENCE2396	johOe028a10a1	8719
SEQUENCE2397	johOe028b01a1	8720
SEQUENCE2398	johOe028c01a1	8721
SEQUENCE2399	johOe028c08a1	8722
SEQUENCE2400	johOe028c10a1	8723
SEQUENCE2401	johOe028c12a1	8724
SEQUENCE2402	johOe028d06a1	8725
SEQUENCE2403	johOe028d11a1	8726
SEQUENCE2404	johOe028g05a1	8727
SEQUENCE2405	johOe028g06a1	8728
SEQUENCE2406	johOe028g11a1	8729
SEQUENCE2407	johOe028h12a1	8730
SEQUENCE2408	johOe029a04a1	8731
SEQUENCE2409	johOe029b05a1	8732
SEQUENCE2410	johOe029c06a1	8733
SEQUENCE2411	johOe029c07a1	8734
SEQUENCE2412	johOe029g01a1	8735
SEQUENCE2413	johOe030a08a1	8736
SEQUENCE2414	johOe030b10a1	8737
SEQUENCE2415	johOe030c10a1	8738
SEQUENCE2416	johOe030d01a1	8739
SEQUENCE2417	johOe030d03a1	8740
SEQUENCE2418	johOe030d09a1	8741
SEQUENCE2419	johOe030f04a1	8742
SEQUENCE2420	johOe030f09a1	8743
SEQUENCE2421	johOe030g01a1	8744

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SEQUENCE2422	johOe030g09a1	8745
SEQUENCE2423	johOe030h02a1	8746
SEQUENCE2424	johOe030h03a1	8747
SEQUENCE2425	johOe031a06a1	8748
SEQUENCE2426	johOe031c02a1	8749
SEQUENCE2427	johOe031c08a1	8750
SEQUENCE2428	johOe031e02a1	8751
SEQUENCE2429	johOe031e06a1	8752
SEQUENCE2430	johOe031f09a1	8753
SEQUENCE2431	johOe032b03a1	8754
SEQUENCE2432	johOe032b06a1	8755
SEQUENCE2433	johOe032b07a1	8756
SEQUENCE2434	johOe032b11a1	8757
SEQUENCE2435	johOe032c01a1	8758
SEQUENCE2436	johOe032c02a1	8759
SEQUENCE2437	johOe032c09a1	8760
SEQUENCE2438	johOe032d07a1	8761
SEQUENCE2439	johOe032f04a1	8762
SEQUENCE2440	johOe032g01a1	8763
SEQUENCE2441	johOe032g08a1	8764
SEQUENCE2442	johOe032g09a1	8765
SEQUENCE2443	johOe032h01a1	8766
SEQUENCE2444	johOe032h03a1	8767
SEQUENCE2445	johOe032h07a1	8768
SEQUENCE2446	johOe032h12a1	8769
SEQUENCE2447	johOe033c10a1	8770
SEQUENCE2448	johOe033f10a1	8771
SEQUENCE2449	johOe033f11a1	8772
SEQUENCE2450	johOe033f12a1	8773
SEQUENCE2451	johOe034b06a1	8774
SEQUENCE2452	johOe034c04a1	8775
SEQUENCE2453	johOe034d01a1	8776
SEQUENCE2454	johOe034e07a1	8777
SEQUENCE2455	johOe034h05a1	8778
SEQUENCE2456	johOe034h09a1	8779
SEQUENCE2457	johOe035a08a1	8780
SEQUENCE2458	johOe035a10a1	8781
SEQUENCE2459	johOe035d12a1	8782
SEQUENCE2460	johOe035e09a1	8783
SEQUENCE2461	johOe035g01a1	8784
SEQUENCE2462	johOe035g04a1	8785
SEQUENCE2463	johOe035h05a1	8786
SEQUENCE2464	johOe036a07a1	8787
SEQUENCE2465	johOe036b06a1	8788
SEQUENCE2466	johOe036b08a1	8789
SEQUENCE2467	johOe036d12a1	8790
SEQUENCE2468	johOe036e01a1	8791
SEQUENCE2469	johOe036f05a1	8792
SEQUENCE2470	johOe037a07a1	8793
SEQUENCE2471	johOe037a10a1	8794
SEQUENCE2472	johOe037b05a1	8795
SEQUENCE2473	johOe037c10a1	8796
SEQUENCE2474	johOe037d03a1	8797

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SEQUENCE2475	johOe037d05a1	8798
SEQUENCE2476	johOe037d09a1	8799
SEQUENCE2477	johOe037f01a1	8800
SEQUENCE2478	johOe037g07a1	8801
SEQUENCE2479	johOe037h02a1	8802
SEQUENCE2480	johOe037h04a1	8803
SEQUENCE2481	johOe038b10a1	8804
SEQUENCE2482	johOe038b11a1	8805
SEQUENCE2483	johOe038e06a1	8806
SEQUENCE2484	johOe038f01a1	8807
SEQUENCE2485	johOe038h01a1	8808
SEQUENCE2486	johOe038h11a1	8809
SEQUENCE2487	johOe038h12a1	8810
SEQUENCE2488	johOf001b05b1	8811
SEQUENCE2489	johOf001b09b1	8812
SEQUENCE2490	johOf001c12b1	8813
SEQUENCE2491	johOf001e11b1	8814
SEQUENCE2492	johOf001g05b1	8815
SEQUENCE2493	johOf002a12a1	8816
SEQUENCE2494	johOf002d09a1	8817
SEQUENCE2495	johOf002g08a1	8818
SEQUENCE2496	johOf003a06a1	8819
SEQUENCE2497	johOf003b09a1	8820
SEQUENCE2498	johOf003d10a1	8821
SEQUENCE2499	johOf003e05a1	8822
SEQUENCE2500	johOf003e10a1	8823
SEQUENCE2501	johOf003h07a1	8824
SEQUENCE2502	johOf004b02a1	8825
SEQUENCE2503	johOf005b04a1	8826
SEQUENCE2504	johOf006a03a1	8827
SEQUENCE2505	johOf006c03a1	8828
SEQUENCE2506	johOf006d01a1	8829
SEQUENCE2507	johOf006d03a1	8830
SEQUENCE2508	johOf006h07a1	8831
SEQUENCE2509	johOf007a05a1	8832
SEQUENCE2510	johOf009a11a1	8833
SEQUENCE2511	johOf009b08a1	8834
SEQUENCE2512	johOf009c06a1	8835
SEQUENCE2513	johOf010a03a1	8836
SEQUENCE2514	johOf010a07a1	8837
SEQUENCE2515	johOf010b02a1	8838
SEQUENCE2516	johOf010b06a1	8839
SEQUENCE2517	johOf010c05a1	8840
SEQUENCE2518	johOf010c08a1	8841
SEQUENCE2519	johOf010e03a1	8842
SEQUENCE2520	johOf010e10a1	8843
SEQUENCE2521	johOf011b04a1	8844
SEQUENCE2522	johOf011c08a1	8845
SEQUENCE2523	johOf011h01a1	8846
SEQUENCE2524	johOf011h11a1	8847
SEQUENCE2525	johOf012a05a1	8848
SEQUENCE2526	johOf012c01a1	8849
SEQUENCE2527	johOf013b04a1	8850

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SEQUENCE2529	johOf013c11a1	8851
SEQUENCE2530	johOf013f03a1	8852
SEQUENCE2531	johOf013f10a1	8853
SEQUENCE2532	johOf013g06a1	8854
SEQUENCE2533	johOf014b12a1	8855
SEQUENCE2534	johOf014e03a1	8856
SEQUENCE2535	johOf014f01a1	8857
SEQUENCE2536	johOf014g03a1	8858
SEQUENCE2537	johOf014g10a1	8859
SEQUENCE2538	johOf014g12a1	8860
SEQUENCE2539	johOf014h03a1	8861
SEQUENCE2540	johOf014h08a1	8862
SEQUENCE2541	johOf016a07a2	8863
SEQUENCE2542	johOf016c12a2	8864
SEQUENCE2543	johOf016f09a2	8865
SEQUENCE2544	johOf017a08a1	8866
SEQUENCE2545	johOf017c01a1	8867
SEQUENCE2546	johOf017c08a1	8868
SEQUENCE2547	johOf017d03a1	8869
SEQUENCE2548	johOf017e03a1	8870
SEQUENCE2549	johOf018a05a1	8871
SEQUENCE2550	johOf018a06a1	8872
SEQUENCE2551	johOf018b07a1	8873
SEQUENCE2552	johOf018b08a1	8874
SEQUENCE2553	johOf018c05a1	8875
SEQUENCE2555	johOf018d04a1	8876
SEQUENCE2556	johOf018d05a1	8877
SEQUENCE2557	johOf018d07a1	8878
SEQUENCE2558	johOf018d08a1	8879
SEQUENCE2559	johOf018d10a1	8880
SEQUENCE2560	johOf018e02a1	8881
SEQUENCE2561	johOf018e05a1	8882
SEQUENCE2562	johOf018f02a1	8883
SEQUENCE2563	johOf018g03a1	8884
SEQUENCE2564	johOf018g08a1	8885
SEQUENCE2565	johOf018h01a1	8886
SEQUENCE2566	johOf018h03a1	8887
SEQUENCE2567	johOf019b05a2	8888
SEQUENCE2568	johOf019c02a2	8889
SEQUENCE2569	johOf019c05a2	8890
SEQUENCE2570	johOf019d11a2	8891
SEQUENCE2571	johOf019f06a2	8892
SEQUENCE2572	johOf019h04a2	8893
SEQUENCE2573	johOf020b09a2	8894
SEQUENCE2574	johOf020d06a2	8895
SEQUENCE2575	johOf020f07a2	8896
SEQUENCE2576	johOf021a11a2	8897
SEQUENCE2578	johOf021c05a2	8898
SEQUENCE2579	johOf021d07a2	8899
SEQUENCE2580	johOf021d08a2	8900
SEQUENCE2581	johOf021d09a2	8901
SEQUENCE2582	johOf021e09a2	8902
SEQUENCE2583	johOf021g02a2	8903

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SEQUENCE2584	johOf021h08a2	8904
SEQUENCE2585	johOf021h10a2	8905
SEQUENCE2586	johOf022b01a2	8906
SEQUENCE2587	johOf022c07a2	8907
SEQUENCE2588	johOf022c11a2	8908
SEQUENCE2589	johOf022e01a2	8909
SEQUENCE2590	johOf022e03a2	8910
SEQUENCE2591	johOf022e09a2	8911
SEQUENCE2592	johOf022e10a2	8912
SEQUENCE2593	johOf022f10a2	8913
SEQUENCE2594	johOf022f12a2	8914
SEQUENCE2595	johOf023d07a2	8915
SEQUENCE2596	johOf023e12a2	8916
SEQUENCE2597	johOf023f10a2	8917
SEQUENCE2598	johOf024a04a2	8918
SEQUENCE2599	johOf024a11a2	8919
SEQUENCE2600	johOf024d09a2	8920
SEQUENCE2601	johOf024e03a2	8921
SEQUENCE2602	johOf024e06a2	8922
SEQUENCE2603	johOf024e08a2	8923
SEQUENCE2604	johOf024e11a2	8924
SEQUENCE2605	johOf024g02a2	8925
SEQUENCE2606	johOf024h11a2	8926
SEQUENCE2607	johOf024h12a2	8927
SEQUENCE2608	johOf026a04a1	8928
SEQUENCE2609	johOf026c08a1	8929
SEQUENCE2610	johOf026d05a1	8930
SEQUENCE2611	johOf026d08a1	8931
SEQUENCE2612	johOf026e04a1	8932
SEQUENCE2613	johOf026f10a1	8933
SEQUENCE2614	johOf026g03a1	8934
SEQUENCE2615	johOf026g05a1	8935
SEQUENCE2616	johOf027a05a1	8936
SEQUENCE2617	johOf027a09a1	8937
SEQUENCE2618	johOf027b04a1	8938
SEQUENCE2619	johOf027e05a1	8939
SEQUENCE2620	johOf027e06a1	8940
SEQUENCE2621	johOf027f10a1	8941
SEQUENCE2622	johOf027g03a1	8942
SEQUENCE2623	johOf027g05a1	8943
SEQUENCE2624	johOf027h04a1	8944
SEQUENCE2625	johOf027h05a1	8945
SEQUENCE2626	johOf027h06a1	8946
SEQUENCE2627	johOf028c10a1	8947
SEQUENCE2628	johOf028f01a1	8948
SEQUENCE2629	johOf028f04a1	8949
SEQUENCE2630	johOf028g12a1	8950
SEQUENCE2631	johOf028h04a1	8951
SEQUENCE2632	johOf029b10a1	8952
SEQUENCE2633	johOf029c08a1	8953
SEQUENCE2634	johOf029d03a1	8954
SEQUENCE2635	johOf030a03a1	8955
SEQUENCE2636	johOf030b07a1	8956

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SEQUENCE2637	johOf030b09a1	8957
SEQUENCE2638	johOf030c07a1	8958
SEQUENCE2639	johOf030d06a1	8959
SEQUENCE2640	johOf030d07a1	8960
SEQUENCE2641	johOf030d09a1	8961
SEQUENCE2643	johOf030e12a1	8962
SEQUENCE2644	johOf030f09a1	8963
SEQUENCE2645	johOf030f11a1	8964
SEQUENCE2646	johOf030h04a1	8965
SEQUENCE2647	johOf030h09a1	8966
SEQUENCE2648	johOf032a01a1	8967
SEQUENCE2649	johOf032a08a1	8968
SEQUENCE2650	johOf032a10a1	8969
SEQUENCE2651	johOf032a11a1	8970
SEQUENCE2652	johOf032d03a1	8971
SEQUENCE2653	johOf032f12a1	8972
SEQUENCE2654	johOf032h08a1	8973
SEQUENCE2655	johOf033a02a1	8974
SEQUENCE2656	johOf033a10a1	8975
SEQUENCE2657	johOf033c06a1	8976
SEQUENCE2658	johOf033c07a1	8977
SEQUENCE2659	johOf033d07a1	8978
SEQUENCE2660	johOf033h02a1	8979
SEQUENCE2661	johOf033h04a1	8980
SEQUENCE2662	johOf034a02a1	8981
SEQUENCE2663	johOf034b11a1	8982
SEQUENCE2664	johOf034c02a1	8983
SEQUENCE2665	johOf034f01a1	8984
SEQUENCE2666	johOf034h01a1	8985
SEQUENCE2667	johOf035a02a1	8986
SEQUENCE2668	johOf035c04a1	8987
SEQUENCE2669	johOf035c10a1	8988
SEQUENCE2670	johOf035d03a1	8989
SEQUENCE2671	johOf035e08a1	8990
SEQUENCE2672	johOf035f05a1	8991
SEQUENCE2673	johOf035g05a1	8992
SEQUENCE2674	johOf037d04a1	8993
SEQUENCE2675	johOf038g11a1	8994
SEQUENCE2676	johOf039a02a1	8995
SEQUENCE2677	johOf039b07a1	8996
SEQUENCE2678	johOf039c10a1	8997
SEQUENCE2679	johOf039d01a1	8998
SEQUENCE2680	johOf039d04a1	8999
SEQUENCE2681	johOf039f09a1	9000
SEQUENCE2682	johOf039g05a1	9001
SEQUENCE2683	johOf039h04a1	9002
SEQUENCE2684	johOf040b10a1	9003
SEQUENCE2685	johOf040c12a1	9004
SEQUENCE2686	johOf040d11a1	9005
SEQUENCE2687	johOf040e04a1	9006
SEQUENCE2688	johOf040f06a1	9007
SEQUENCE2689	johOf040g05a1	9008
SEQUENCE2690	johOf040g09a1	9009

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SEQUENCE2691	johOf041b01a1	9010
SEQUENCE2692	johOf041b03a1	9011
SEQUENCE2693	johOf041d01a1	9012
SEQUENCE2694	johOf041d02a1	9013
SEQUENCE2695	johOf041d05a1	9014
SEQUENCE2696	johOf041f01a1	9015
SEQUENCE2697	johOf041f05a1	9016
SEQUENCE2698	johOf041h01a1	9017
SEQUENCE2699	johOf042a07a1	9018
SEQUENCE2700	johOf042a09a1	9019
SEQUENCE2701	johOf042d04a1	9020
SEQUENCE2702	johOf042d05a1	9021
SEQUENCE2703	johOf042e08a1	9022
SEQUENCE2704	johOf042f10a1	9023
SEQUENCE2705	johOf042g02a1	9024
SEQUENCE2706	johOf045b05a1	9025
SEQUENCE2707	johOf045b07a1	9026
SEQUENCE2708	johOf045c05a1	9027
SEQUENCE2709	johOf045e10a1	9028
SEQUENCE2710	johOf056b10a1	9029
SEQUENCE2711	johOf056c03a1	9030
SEQUENCE2712	johOf056e01a1	9031
SEQUENCE2713	johOf056f10a1	9032
SEQUENCE2714	johOf057b03a1	9033
SEQUENCE2715	johOf057b08a1	9034
SEQUENCE2716	johOf057c02a1	9035
SEQUENCE2717	johOf057f10a1	9036
SEQUENCE2718	johOf057h09a1	9037
SEQUENCE2719	johOf060d05a1	9038
SEQUENCE2720	johOf060e05a1	9039
SEQUENCE2721	johOf060h08a1	9040
SEQUENCE2722	johOf062d08a1	9041
SEQUENCE2723	johOf064a12a1	9042
SEQUENCE2724	johOf064c03a1	9043
SEQUENCE2725	johOf065a03a1	9044
SEQUENCE2726	johOf065e04a1	9045
SEQUENCE2727	johOf065e08a1	9046
SEQUENCE2728	johOf065f04a1	9047
SEQUENCE2729	johOf065f08a1	9048
SEQUENCE2730	johOf065g12a1	9049
SEQUENCE2731	johOf065h12a1	9050
SEQUENCE2732	johOf066b12a1	9051
SEQUENCE2733	johOf066d10a1	9052
SEQUENCE2734	johOf066h07a1	9053
SEQUENCE2735	johOf067c02a1	9054
SEQUENCE2736	johOf067c08a1	9055
SEQUENCE2737	johOf067e06a1	9056
SEQUENCE2738	johOf067e09a1	9057
SEQUENCE2739	johOf067e10a1	9058
SEQUENCE2740	johOf067e11a1	9059
SEQUENCE2741	johOf067f12a1	9060
SEQUENCE2742	johOf067g07a1	9061
SEQUENCE2743	johOf067h06a1	9062

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SEQUENCE2744	johOf068c03a1	9063
SEQUENCE2745	johOf068d09a1	9064
SEQUENCE2746	johOf068e09a1	9065
SEQUENCE2747	johOf069c02a1	9066
SEQUENCE2748	johOf069e01a1	9067
SEQUENCE2749	johOf069f03a1	9068
SEQUENCE2750	johOf069f04a1	9069
SEQUENCE2751	johOf069f06a1	9070
SEQUENCE2752	johOf069g02a1	9071
SEQUENCE2753	johOf069h03a1	9072
SEQUENCE2754	johOf069h10a1	9073
SEQUENCE2755	johOf070a06a1	9074
SEQUENCE2756	johOf070e01a1	9075
SEQUENCE2757	johOf070f08a1	9076
SEQUENCE2758	johOf070g02a1	9077
SEQUENCE2759	johOf070h10a1	9078
SEQUENCE2760	johOf071c12a1	9079
SEQUENCE2762	johOf072b09a1	9080
SEQUENCE2763	johOf072c05a1	9081
SEQUENCE2764	johOf072g11a1	9082
SEQUENCE2765	johOf073f07a1	9083
SEQUENCE2766	johOf074a03a1	9084
SEQUENCE2767	johOf074a08a1	9085
SEQUENCE2768	johOf074d07a1	9086
SEQUENCE2769	johOf074d11a1	9087
SEQUENCE2770	johOf074e02a1	9088
SEQUENCE2771	johOf074e10a1	9089
SEQUENCE2772	johOf074f01a1	9090
SEQUENCE2773	johOf074h04a1	9091
SEQUENCE2775	johOf077a08a1	9092
SEQUENCE2776	johOf077a10a1	9093
SEQUENCE2777	johOf077b01a1	9094
SEQUENCE2778	johOf077e11a1	9095
SEQUENCE2779	johOf077g02a1	9096
SEQUENCE2780	johOf077h11a1	9097
SEQUENCE2781	johOf078a11a1	9098
SEQUENCE2782	johOf078d09a1	9099
SEQUENCE2783	johOf079g07a1	9100
SEQUENCE2784	johOf080a04a1	9101
SEQUENCE2785	johOf080f04a1	9102
SEQUENCE2786	johOf080g02a1	9103
SEQUENCE2787	johOf081a10a1	9104
SEQUENCE2788	johOf081b05a1	9105
SEQUENCE2789	johOf081c03a1	9106
SEQUENCE2790	johOf081g05a1	9107
SEQUENCE2791	johOf081h08a1	9108
SEQUENCE2792	johOf082b11a1	9109
SEQUENCE2793	johOf082e05a1	9110
SEQUENCE2794	johOf082h05a1	9111
SEQUENCE2795	johOf083a11a1	9112
SEQUENCE2796	johOf083e05a1	9113
SEQUENCE2797	johOf083g10a1	9114
SEQUENCE2798	johOf084g07a1	9115

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SEQUENCE2799	johOf085g01a1	9116
SEQUENCE2800	johOf085h07a1	9117
SEQUENCE2801	johOf086c01a1	9118
SEQUENCE2802	johOf086c07a1	9119
SEQUENCE2803	johOf086e05a1	9120
SEQUENCE2804	johOf086g09a1	9121
SEQUENCE2805	johOf086g12a1	9122
SEQUENCE2806	johOf087a10a1	9123
SEQUENCE2807	johOf087d10a1	9124
SEQUENCE2808	johOf087f03a1	9125
SEQUENCE2810	johOf088e07a1	9126
SEQUENCE2811	johOf088f09a1	9127
SEQUENCE2812	johOf088h02a1	9128
SEQUENCE2813	johOf089b07a1	9129
SEQUENCE2814	johOf089d01a1	9130
SEQUENCE2815	johOf089d05a1	9131
SEQUENCE2816	johOf089e03a1	9132
SEQUENCE2817	johOf089f03a1	9133
SEQUENCE2818	johOf089g01a1	9134
SEQUENCE2819	johOf089h01a1	9135
SEQUENCE2820	johOf089h03a1	9136
SEQUENCE2821	johOf090a08a1	9137
SEQUENCE2822	johOf090a12a1	9138
SEQUENCE2823	johOf090b01a1	9139
SEQUENCE2824	johOf090d08a1	9140
SEQUENCE2825	johOf090f07a1	9141
SEQUENCE2826	johOf090f09a1	9142
SEQUENCE2827	johOf090f11a1	9143
SEQUENCE2828	johOf090f12a1	9144
SEQUENCE2829	johOf090g02a1	9145
SEQUENCE2830	johOf090g10a1	9146
SEQUENCE2831	johOf091b09a1	9147
SEQUENCE2832	johOf091b10a1	9148
SEQUENCE2833	johOf091d08a1	9149
SEQUENCE2834	johOf091d10a1	9150
SEQUENCE2835	johOf091d12a1	9151
SEQUENCE2836	johOf091g05a1	9152
SEQUENCE2837	johOf091h05a1	9153
SEQUENCE2838	johOf092a07a1	9154
SEQUENCE2839	johOf092h04a1	9155
SEQUENCE2840	johOf094e12a1	9156
SEQUENCE2841	johOf095a08a1	9157
SEQUENCE2842	johOf095d02a1	9158
SEQUENCE2843	johOf095f02a1	9159
SEQUENCE2844	johOf096c11a1	9160
SEQUENCE2845	johOf096f05a1	9161
SEQUENCE2846	johOf096h09a1	9162
SEQUENCE2847	johOf097b03a1	9163
SEQUENCE2848	johOf097e02a1	9164
SEQUENCE2849	johOf097f11a1	9165
SEQUENCE2850	johOf097g05a1	9166
SEQUENCE2851	johOf097h05a1	9167
SEQUENCE2852	johOf098a03a1	9168

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SEQUENCE2853	johOf098a05a1	9169
SEQUENCE2854	johOf098c04a1	9170
SEQUENCE2855	johOf099b02a1	9171
SEQUENCE2856	johOf099b10a1	9172
SEQUENCE2857	johOf099c02a1	9173
SEQUENCE2858	johOf099d04a1	9174
SEQUENCE2859	johOf099d11a1	9175
SEQUENCE2860	johOf099e01a1	9176
SEQUENCE2861	johOf099f10a1	9177
SEQUENCE2862	johOf099g03a1	9178
SEQUENCE2863	johOf099h01a1	9179
SEQUENCE2864	johOf099h08a1	9180
SEQUENCE2865	johOfReA002c11a1	9181
SEQUENCE2866	johOfReA002d07a1	9182
SEQUENCE2867	johOfReA002h11a1	9183
SEQUENCE2868	johOfReA003d02a1	9184
SEQUENCE2869	johOfReA003f03a1	9185
SEQUENCE2871	johOfReA003g11a1	9186
SEQUENCE2872	cMhOg054g04a1	9187
SEQUENCE2873	cMhOg034b02a1	9188
SEQUENCE2874	cMhOg018d09a1	9189
SEQUENCE2875	cMhOg024h03a1	9190
SEQUENCE2876	cMhOg048g09a1	9191
SEQUENCE2877	cMhOg032c02a1	9192
SEQUENCE2878	cMhOg022c04a1	9193
SEQUENCE2879	cMhOg011d05a1	9194
SEQUENCE2880	cMhOg020c08a1	9195
SEQUENCE2881	cMhOg002c05a2	9196
SEQUENCE2882	cMhOg041h07a1	9197
SEQUENCE2883	cMhOg046e09a2	9198
SEQUENCE2884	cMhOg006c04a1	9199
SEQUENCE2885	cMhOg002g06a2	9200
SEQUENCE2886	cMhOg019a01a1	9201
SEQUENCE2887	cMhOg032b04a1	9202
SEQUENCE2888	cMhOg045b01a1	9203
SEQUENCE2889	cMhOg021a02a1	9204
SEQUENCE2890	cMhOg048a07a1	9205
SEQUENCE2891	cMhOg051e05a1	9206
SEQUENCE2892	cMhOg002b05a2	9207
SEQUENCE2893	cMhOg033b09a1	9208
SEQUENCE2894	cMhOg024f01a1	9209
SEQUENCE2895	cMhOg040c07a1	9210
SEQUENCE2896	cMhOg045e08a1	9211
SEQUENCE2897	cMhOg024g02a1	9212
SEQUENCE2898	cMhOg033c10a1	9213
SEQUENCE2899	cMhOg033a07a1	9214
SEQUENCE2900	cMhOg024f02a1	9215
SEQUENCE2901	cMhOg024e02a1	9216
SEQUENCE2902	cMhOg038b12a1	9217
SEQUENCE2903	cMhOg022f04a1	9218
SEQUENCE2904	cMhOg040g02a1	9219
SEQUENCE2905	cMhOg001g10a2	9220
SEQUENCE2906	cMhOg043d09a1	9221

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SEQUENCE2907	cMhOg038b06a1	9222
SEQUENCE2908	cMhOg018f03a1	9223
SEQUENCE2909	cMhOg043b08a1	9224
SEQUENCE2910	cMhOg048h09a1	9225
SEQUENCE2911	cMhOg032c08a1	9226
SEQUENCE2912	cMhOg011d12a1	9227
SEQUENCE2913	cMhOg022e03a1	9228
SEQUENCE2914	cMhOg008g07a1	9229
SEQUENCE2915	cMhOg020e09a1	9230
SEQUENCE2916	cMhOg003g01a2	9231
SEQUENCE2917	cMhOg046e12a2	9232
SEQUENCE2918	cMhOg051h11a1	9233
SEQUENCE2919	cMhOg006h07a1	9234
SEQUENCE2920	cMhOg003b10a2	9235
SEQUENCE2921	cMhOg048g02a1	9236
SEQUENCE2922	cMhOg051f02a1	9237
SEQUENCE2923	cMhOg024h04a1	9238
SEQUENCE2924	cMhOg021b12a1	9239
SEQUENCE2925	cMhOg001d10a2	9240
SEQUENCE2926	cMhOg024g01a1	9241
SEQUENCE2927	cMhOg041g04a1	9242
SEQUENCE2928	cMhOg046a12a2	9243
SEQUENCE2929	cMhOg039d08a1	9244
SEQUENCE2930	cMhOg031d07a1	9245
SEQUENCE2931	cMhOg024f07a1	9246
SEQUENCE2932	cMhOg019g01a1	9247
SEQUENCE2933	cMhOg022g01a1	9248
SEQUENCE2934	cMhOg033f11a1	9249
SEQUENCE2935	cMhOg001h09a2	9250
SEQUENCE2936	cMhOg041b12a1	9251
SEQUENCE2937	cMhOg032d08a1	9252
SEQUENCE2938	cMhOg044b04a1	9253
SEQUENCE2939	cMhOg018g05a1	9254
SEQUENCE2940	cMhOg032f01a1	9255
SEQUENCE2941	cMhOg023e12a1	9256
SEQUENCE2942	cMhOg050b10a1	9257
SEQUENCE2943	cMhOg015a06a1	9258
SEQUENCE2944	cMhOg022e10a1	9259
SEQUENCE2945	cMhOg004d01a2	9260
SEQUENCE2946	cMhOg009d04a1	9261
SEQUENCE2947	cMhOg053h12a1	9262
SEQUENCE2948	cMhOg034a10a1	9263
SEQUENCE2949	cMhOg032h01a1	9264
SEQUENCE2950	cMhOg008c12a1	9265
SEQUENCE2951	cMhOg046b08a2	9266
SEQUENCE2952	cMhOg020b08a1	9267
SEQUENCE2953	cMhOg048g08a1	9268
SEQUENCE2954	cMhOg010a04a1	9269
SEQUENCE2955	cMhOg031a04a1	9270
SEQUENCE2956	cMhOg001f07a2	9271
SEQUENCE2957	cMhOg021e05a1	9272
SEQUENCE2958	cMhOg041h05a1	9273
SEQUENCE2959	cMhOg020b07a1	9274

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SEQUENCE2960	cMhOg032d02a1	9275
SEQUENCE2961	cMhOg005g04a1	9276
SEQUENCE2962	cMhOg046h08a2	9277
SEQUENCE2963	cMhOg032a09a1	9278
SEQUENCE2964	cMhOg044h03a1	9279
SEQUENCE2965	cMhOg019g10a1	9280
SEQUENCE2966	cMhOg022h03a1	9281
SEQUENCE2967	cMhOg051b08a1	9282
SEQUENCE2968	cMhOg002b02a2	9283
SEQUENCE2969	cMhOg046f05a2	9284
SEQUENCE2970	cMhOg033f12a1	9285
SEQUENCE2971	cMhOg005f05a1	9286
SEQUENCE2972	cMhOg050h05a1	9287
SEQUENCE2973	cMhOg023h08a1	9288
SEQUENCE2974	cMhOg022f01a1	9289
SEQUENCE2975	cMhOg005d01a1	9290
SEQUENCE2976	cMhOg010a03a1	9291
SEQUENCE2977	cMhOh011b12a1	9292
SEQUENCE2978	cMhOh017g04a1	9293
SEQUENCE2979	cMhOh072a08a3	9294
SEQUENCE2980	cMhOh084d12a1	9295
SEQUENCE2981	cMhOh121b07a2	9296
SEQUENCE2982	cMhOh122g07a2	9297
SEQUENCE2983	cMhOh014e07a2	9298
SEQUENCE2984	cMhOh011b09a1	9299
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SEQUENCE2987	cMhOh011b05a1	9302
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SEQUENCE2989	cMhOh129a07a2	9304
SEQUENCE2990	cMhOh013f09a1	9305
SEQUENCE2991	cMhOh098c03a2	9306
SEQUENCE2992	cMhOh011h04a2	9307
SEQUENCE2993	cMhOh128g06a2	9308
SEQUENCE2994	cMhOh104f01a2	9309
SEQUENCE2995	cMhOh013f06a2	9310
SEQUENCE2996	cMhOh093g12a2	9311
SEQUENCE2997	cMhOh126g09a2	9312
SEQUENCE2998	cMhOh011h02a2	9313
SEQUENCE2999	cMhOh128e11a2	9314
SEQUENCE3000	cMhOh019d09a1	9315
SEQUENCE3002	cMhOh013f05a2	9316
SEQUENCE3003	cMhOh013c05a2	9317
SEQUENCE3004	cMhOh073c08a3	9318
SEQUENCE3005	cMhOh011g07a2	9319
SEQUENCE3006	cMhOh092f08a2	9320
SEQUENCE3007	cMhOh013b12a2	9321
SEQUENCE3008	cMhOh013e12a2	9322
SEQUENCE3009	cMhOh073a01a3	9323
SEQUENCE3010	cMhOh011f10a2	9324
SEQUENCE3011	cMhOh060f01a1	9325
SEQUENCE3012	cMhOh014h02a1	9326
SEQUENCE3013	cMhOh013e06a2	9327

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SEQUENCE3014	cMhOh013b11a2	9328
SEQUENCE3015	cMhOh011f09a2	9329
SEQUENCE3016	cMhOh014g12a1	9330
SEQUENCE3017	cMhOh002a08a1	9331
SEQUENCE3018	cMhOh044e01a2	9332
SEQUENCE3019	cMhOh023h08a2	9333
SEQUENCE3020	cMhOh042h12a2	9334
SEQUENCE3021	cMhOh131b05a3	9335
SEQUENCE3022	cMhOh091f03a2	9336
SEQUENCE3023	cMhOh086a08a2	9337
SEQUENCE3024	cMhOh025g11a1	9338
SEQUENCE3025	cMhOh015h02a2	9339
SEQUENCE3026	cMhOh041e01a1	9340
SEQUENCE3027	cMhOh120g06a2	9341
SEQUENCE3028	cMhOh015e02a2	9342
SEQUENCE3029	cMhOh013c09a1	9343
SEQUENCE3030	cMhOh120e09a2	9344
SEQUENCE3031	cMhOh053d11a1	9345
SEQUENCE3032	cMhOh014c11a1	9346
SEQUENCE3033	cMhOh013g11a2	9347
SEQUENCE3034	cMhOh011d06a2	9348
SEQUENCE3035	cMhOh052f06a2	9349
SEQUENCE3036	cMhOh048g10a1	9350
SEQUENCE3037	cMhOh013g09a2	9351
SEQUENCE3038	cMhOh011d03a2	9352
SEQUENCE3039	cMhOh048e10a1	9353
SEQUENCE3040	cMhOh013g08a1	9354
SEQUENCE3041	cMhOh102b07a2	9355
SEQUENCE3042	cMhOh012a08a2	9356
SEQUENCE3043	cMhOh087b09a2	9357
SEQUENCE3044	cMhOh014d02a2	9358
SEQUENCE3045	cMhOh013g05a2	9359
SEQUENCE3046	cMhOh031b05a2	9360
SEQUENCE3047	cMhOh077f03a1	9361
SEQUENCE3048	cMhOh011h11a2	9362
SEQUENCE3049	cMhOh069a03a1	9363
SEQUENCE3050	cMhOh086g03a2	9364
SEQUENCE3051	cMhOh090h06a2	9365
SEQUENCE3052	cMhOh013f10a2	9366
SEQUENCE3053	cMhOh100c05a2	9367
SEQUENCE3054	cMhOh086c02a2	9368
SEQUENCE3055	cMhOh065d06a1	9369
SEQUENCE3056	cMhOh009h12a1	9370
SEQUENCE3057	cMhOh069g04a1	9371
SEQUENCE3058	cMhOh013c07a1	9372
SEQUENCE3059	cMhOh009b09a1	9373
SEQUENCE3060	cMhOh004h02a1	9374
SEQUENCE3061	cMhOh030c05a1	9375
SEQUENCE3062	cMhOh123h12a2	9376
SEQUENCE3063	cMhOh089f11a2	9377
SEQUENCE3064	cMhOh123d08a2	9378
SEQUENCE3065	cMhOh025b01a1	9379
SEQUENCE3066	cMhOh089f01a2	9380

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SEQUENCE3067	cMhOh117a05a3	9381
SEQUENCE3068	cMhOh022a03a2	9382
SEQUENCE3069	cMhOh014b05a2	9383
SEQUENCE3070	cMhOh088b10a2	9384
SEQUENCE3071	cMhOh115g08a2	9385
SEQUENCE3073	cMhOh014a03a1	9386
SEQUENCE3074	cMhOh011f04a2	9387
SEQUENCE3075	cMhOh115c09a2	9388
SEQUENCE3076	cMhOh014c04a2	9389
SEQUENCE3077	cMhOh110h07a2	9390
SEQUENCE3079	cMhOh011f01a1	9391
SEQUENCE3080	cMhOh120c07a2	9392
SEQUENCE3081	cMhOh115b01a2	9393
SEQUENCE3082	cMhOh014c03a2	9394
SEQUENCE3083	cMhOh013h06a1	9395
SEQUENCE3084	cMhOh011e12a1	9396
SEQUENCE3085	cMhOh114h06a2	9397
SEQUENCE3086	cMhOh013h04a1	9398
SEQUENCE3087	cMhOh011d12a2	9399
SEQUENCE3088	cMhOh082g09a3	9400
SEQUENCE3089	cMhOh124c11a1	9401
SEQUENCE3090	cMhOh011d09a2	9402
SEQUENCE3091	cMhOh082c02a3	9403
SEQUENCE3092	cMhOh076g12a1	9404
SEQUENCE3093	cMhOh124f03a2	9405
SEQUENCE3094	cMhOh017f08a1	9406
SEQUENCE3095	cMhOh082b05a3	9407
SEQUENCE3096	cMhOh074e02a2	9408
SEQUENCE3097	cMhOh072a08a1	9409
SEQUENCE3098	cMhOh017b11a1	9410
SEQUENCE3099	cMhOh078d09a1	9411
SEQUENCE3100	cMhOh073e09a3	9412
SEQUENCE3101	cMhOh069a10a1	9413
SEQUENCE3102	cMhOh012f05a2	9414
SEQUENCE3103	cMhOh014d03a1	9415
SEQUENCE3104	cMhOh002b08a1	9416
SEQUENCE3105	cMhOh026a08a1	9417
SEQUENCE3106	cMhOh012e05a2	9418
SEQUENCE3107	cMhOh014f06a1	9419
SEQUENCE3108	cMhOh069a04a1	9420
SEQUENCE3109	cMhOh030a07a1	9421
SEQUENCE3110	cMhOh072f12a1	9422
SEQUENCE3111	cMhOh041b03a1	9423
SEQUENCE3112	cMhOh110d02a2	9424
SEQUENCE3113	cMhOh012b09a2	9425
SEQUENCE3114	cMhOh014f04a1	9426
SEQUENCE3115	cMhOh040b01a1	9427
SEQUENCE3116	cMhOh094c11a3	9428
SEQUENCE3117	cMhOh014f02a1	9429
SEQUENCE3118	cMhOh012b01a2	9430
SEQUENCE3119	cMhOh014e01a2	9431
SEQUENCE3121	cMhOh014f01a1	9432
SEQUENCE3122	cMhOh124b07a1	9433

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SEQUENCE3123	cMhOh011a10a1	9434
SEQUENCE3124	cMhOh083a02a3	9435
SEQUENCE3125	cMhOh011a06a2	9436
SEQUENCE3126	cMhOh060a02a1	9437
SEQUENCE3127	cMhOh117b08a3	9438
SEQUENCE3128	cMhOh014b08a2	9439
SEQUENCE3129	cMhOh056d11a1	9440
SEQUENCE3130	cMhOh107e02a2	9441
SEQUENCE3131	cMhOh113f04a2	9442
SEQUENCE3132	cMhOh126d11a2	9443
SEQUENCE3133	cMhOh021f05a1	9444
SEQUENCE3134	cMhOh023h07a2	9445
SEQUENCE3135	cMhOh106c08a2	9446
SEQUENCE3136	cMhOh113a10a2	9447
SEQUENCE3137	cMhOh126b03a2	9448
SEQUENCE3138	cMhOh029a11a1	9449
SEQUENCE3139	cMhOh020d12a1	9450
SEQUENCE3140	cMhOh022d11a2	9451
SEQUENCE3141	cMhOh083e01a3	9452
SEQUENCE3142	cMhOh090b02a2	9453
SEQUENCE3143	cMhOh095d04a2	9454
SEQUENCE3144	cMhOh084f05a1	9455
SEQUENCE3145	cMhOh094h11a3	9456
SEQUENCE3146	cMhOh019h04a2	9457
SEQUENCE3147	cMhOh105g03a2	9458
SEQUENCE3148	cMhOh094a01a3	9459
SEQUENCE3149	cMhOh119h03a2	9460
SEQUENCE3150	cMhOh013d10a2	9461
SEQUENCE3151	cMhOh125d10a2	9462
SEQUENCE3152	cMhOh013a04a2	9463
SEQUENCE3153	cMhOh019g01a1	9464
SEQUENCE3154	cMhOh011f07a2	9465
SEQUENCE3155	cMhOh094d10a3	9466
SEQUENCE3156	cMhOh014g07a2	9467
SEQUENCE3157	cMhOh077d08a1	9468
SEQUENCE3158	cMhOh014h12a2	9469
SEQUENCE3159	cMhOh012g10a2	9470
SEQUENCE3160	cMhOh014g06a1	9471
SEQUENCE3161	cMhOh109f01a2	9472
SEQUENCE3162	cMhOh012g04a2	9473
SEQUENCE3163	cMhOh014g02a2	9474
SEQUENCE3164	cMhOh011d02a1	9475
SEQUENCE3165	cMhOh108b12a2	9476
SEQUENCE3166	cMhOh014f07a2	9477
SEQUENCE3167	cMhOh036e03a1	9478
SEQUENCE3168	cMhOh011c06a2	9479
SEQUENCE3169	cMhOh017h12a1	9480
SEQUENCE3170	cMhOh092b09a2	9481
SEQUENCE3171	cMhOh108a10a2	9482
SEQUENCE3172	cMhOh128a10a2	9483
SEQUENCE3173	cMhOh014f06a2	9484
SEQUENCE3174	cMhOh014e12a1	9485
SEQUENCE3175	cMhOh011b12a2	9486

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SEQUENCE3176	cMhOh017g06a1	9487
SEQUENCE3177	cMhOh121c12a2	9488
SEQUENCE3178	cMhOh122h01a2	9489
SEQUENCE3179	cMhOh083b01a3	9490
SEQUENCE3180	cMhOh014e10a1	9491
SEQUENCE3181	cMhOh011b09a2	9492
SEQUENCE3182	cMhOh017f12a1	9493
SEQUENCE3183	cMhOh121a08a2	9494
SEQUENCE3184	cMhOh122d04a2	9495
SEQUENCE3185	cMhOh119d11a2	9496
SEQUENCE3186	cMhOh011b05a2	9497
SEQUENCE3187	cMhOh129e05a2	9498
SEQUENCE3188	cMhOh098g03a2	9499
SEQUENCE3189	cMhOh131g04a3	9500
SEQUENCE3190	cMhOh011h07a2	9501
SEQUENCE3191	cMhOh128g10a2	9502
SEQUENCE3192	cMhOh105d03a2	9503
SEQUENCE3193	cMhOh013f08a1	9504
SEQUENCE3194	cMhOh095f11a2	9505
SEQUENCE3195	cMhOh011h03a2	9506
SEQUENCE3196	cMhOh128f11a2	9507
SEQUENCE3197	cMhOh034e06a1	9508
SEQUENCE3198	cMhOh013f06a1	9509
SEQUENCE3199	cMhOh073e04a3	9510
SEQUENCE3200	cMhOh092h06a2	9511
SEQUENCE3201	cMhOh011h02a1	9512
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SEQUENCE3203	cMhOh013c05a1	9514
SEQUENCE3204	cMhOh126g04a2	9515
SEQUENCE3205	cMhOh013f05a1	9516
SEQUENCE3206	cMhOh073c06a3	9517
SEQUENCE3207	cMhOh011g01a2	9518
SEQUENCE3208	cMhOh064a07a1	9519
SEQUENCE3209	cMhOh014h02a2	9520
SEQUENCE3210	cMhOh013e12a1	9521
SEQUENCE3211	cMhOh011f10a1	9522
SEQUENCE3212	cMhOh060d08a1	9523
SEQUENCE3213	cMhOh014h01a1	9524
SEQUENCE3214	cMhOh013d12a1	9525
SEQUENCE3215	cMhOh013b11a1	9526
SEQUENCE3216	cMhOh044h11a2	9527
SEQUENCE3217	cMhOh024a01a1	9528
SEQUENCE3218	cMhOh044c03a2	9529
SEQUENCE3219	cMhOh091g01a2	9530
SEQUENCE3220	cMhOh016g06a1	9531
SEQUENCE3221	cMhOh042c04a2	9532
SEQUENCE3222	cMhOh129h12a2	9533
SEQUENCE3223	cMhOh091c07a2	9534
SEQUENCE3224	cMhOh015f10a2	9535
SEQUENCE3225	cMhOh013c12a2	9536
SEQUENCE3226	cMhOh120f05a2	9537
SEQUENCE3227	cMhOh008g06a2	9538
SEQUENCE3228	cMhOh015d04a1	9539

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SEQUENCE3229	cMhOh069h09a1	9540
SEQUENCE3230	cMhOh053f02a1	9541
SEQUENCE3231	cMhOh014d02a1	9542
SEQUENCE3232	cMhOh013h01a1	9543
SEQUENCE3233	cMhOh052f08a2	9544
SEQUENCE3234	cMhOh014c07a1	9545
SEQUENCE3235	cMhOh011d06a1	9546
SEQUENCE3236	cMhOh052d12a2	9547
SEQUENCE3237	cMhOh013g11a1	9548
SEQUENCE3238	cMhOh110a01a2	9549
SEQUENCE3239	cMhOh048g01a1	9550
SEQUENCE3240	cMhOh013g09a1	9551
SEQUENCE3241	cMhOh011d02a2	9552
SEQUENCE3242	cMhOh012a10a2	9553
SEQUENCE3243	cMhOh087f06a2	9554
SEQUENCE3244	cMhOh036h03a1	9555
SEQUENCE3245	cMhOh122a08a2	9556
SEQUENCE3246	cMhOh045f05a2	9557
SEQUENCE3247	cMhOh031f04a2	9558
SEQUENCE3248	cMhOh013g06a1	9559
SEQUENCE3249	cMhOh012a06a2	9560
SEQUENCE3250	cMhOh078a04a1	9561
SEQUENCE3251	cMhOh087a04a2	9562
SEQUENCE3252	cMhOh100g05a2	9563
SEQUENCE3253	cMhOh013g05a1	9564
SEQUENCE3254	cMhOh011h11a1	9565
SEQUENCE3255	cMhOh068d07a1	9566
SEQUENCE3256	cMhOh011a02a1	9567
SEQUENCE3257	cMhOh086d08a2	9568
SEQUENCE3258	cMhOh064f01a1	9569
SEQUENCE3259	cMhOh013c07a2	9570
SEQUENCE3260	cMhOh009d04a1	9571
SEQUENCE3261	cMhOh004h05a1	9572
SEQUENCE3262	cMhOh069e04a1	9573
SEQUENCE3263	cMhOh030e07a1	9574
SEQUENCE3264	cMhOh002f08a1	9575
SEQUENCE3265	cMhOh124d10a2	9576
SEQUENCE3266	cMhOh030c04a1	9577
SEQUENCE3267	cMhOh123h10a2	9578
SEQUENCE3268	cMhOh025d09a1	9579
SEQUENCE3269	cMhOh089f02a2	9580
SEQUENCE3270	cMhOh022c06a2	9581
SEQUENCE3271	cMhOh024d08a1	9582
SEQUENCE3272	cMhOh088c01a2	9583
SEQUENCE3273	cMhOh116e01a2	9584
SEQUENCE3275	cMhOh120e06a2	9585
SEQUENCE3276	cMhOh014a03a2	9586
SEQUENCE3277	cMhOh011f05a2	9587
SEQUENCE3278	cMhOh087h08a2	9588
SEQUENCE3279	cMhOh115g04a2	9589
SEQUENCE3280	cMhOh120c11a2	9590
SEQUENCE3281	cMhOh017a07a1	9591
SEQUENCE3282	cMhOh013h08a2	9592

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SEQUENCE3283	cMhOh011f01a2	9593
SEQUENCE3284	cMhOh115c05a2	9594
SEQUENCE3285	cMhOh014c04a1	9595
SEQUENCE3286	cMhOh110g04a2	9596
SEQUENCE3287	cMhOh011e12a2	9597
SEQUENCE3288	cMhOh013h06a2	9598
SEQUENCE3289	cMhOh120c06a2	9599
SEQUENCE3291	cMhOh009a12a1	9600
SEQUENCE3292	cMhOh013h04a2	9601
SEQUENCE3293	cMhOh011e08a2	9602
SEQUENCE3295	cMhOh011d12a1	9603
SEQUENCE3296	cMhOh082g04a3	9604
SEQUENCE3297	cMhOh030h12a1	9605
SEQUENCE3298	cMhOh082b10a3	9606
SEQUENCE3299	cMhOh075b11a2	9607
SEQUENCE3301	cMhOh081e11a1	9608
SEQUENCE3302	cMhOh074d02a2	9609
SEQUENCE3303	cMhOh012f07a2	9610
SEQUENCE3304	cMhOh014d03a2	9611
SEQUENCE3305	cMhOh078b06a1	9612
SEQUENCE3306	cMhOh069a09a1	9613
SEQUENCE3307	cMhOh012e10a2	9614
SEQUENCE3308	cMhOh041c03a1	9615
SEQUENCE3309	cMhOh025h12a1	9616
SEQUENCE3310	cMhOh012c03a2	9617
SEQUENCE3311	cMhOh014f04a2	9618
SEQUENCE3312	cMhOh029a12a1	9619
SEQUENCE3313	cMhOh090e04a2	9620
SEQUENCE3314	cMhOh040c08a1	9621
SEQUENCE3315	cMhOh012b05a2	9622
SEQUENCE3316	cMhOh014f02a2	9623
SEQUENCE3317	cMhOh014e07a1	9624
SEQUENCE3318	cMhOh011c05a2	9625
SEQUENCE3319	cMhOh012a12a2	9626
SEQUENCE3320	cMhOh011b03a2	9627
SEQUENCE3321	cMhOh124b07a2	9628
SEQUENCE3322	cMhOh124e02a2	9629
SEQUENCE3323	cMhOh014e12a2	9630
SEQUENCE3324	cMhOh011a09a1	9631
SEQUENCE3325	cMhOh073a01a1	9632
SEQUENCE3326	cMhOh117g10a3	9633
SEQUENCE3327	cMhOh011a02a2	9634
SEQUENCE3328	cMhOh017b10a1	9635
SEQUENCE3329	cMhOh014b11a1	9636
SEQUENCE3330	cMhOh059h07a2	9637
SEQUENCE3331	cMhOh073e08a3	9638
SEQUENCE3332	cMhOh113f05a2	9639
SEQUENCE3333	cMhOh001d10a2	9640
SEQUENCE3334	cMhOh011f06a2	9641
SEQUENCE3335	cMhOh008d02a2	9642
SEQUENCE3336	cMhOh106e03a2	9643
SEQUENCE3337	cMhOh113b10a2	9644
SEQUENCE3338	cMhOh126b09a2	9645

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SEQUENCE3339	cMhOh021a12a1	9646
SEQUENCE3340	cMhOh022f07a2	9647
SEQUENCE3341	cMhOh084b10a1	9648
SEQUENCE3342	cMhOh106a08a2	9649
SEQUENCE3343	cMhOh125g08a2	9650
SEQUENCE3344	cMhOh095d03a2	9651
SEQUENCE3345	cMhOh019h10a2	9652
SEQUENCE3346	cMhOh083c10a3	9653
SEQUENCE3347	cMhOh094c01a3	9654
SEQUENCE3348	cMhOh105f11a2	9655
SEQUENCE3349	cMhOh094g06a3	9656
SEQUENCE3350	cMhOh019g01a2	9657
SEQUENCE3351	cMhOh011f09a1	9658
SEQUENCE3352	cMhOh119f08a2	9659
SEQUENCE3353	cMhOh014g08a1	9660
SEQUENCE3354	cMhOh015c06a1	9661
SEQUENCE3355	cMhOh014g06a2	9662
SEQUENCE3356	cMhOh014h06a2	9663
SEQUENCE3357	cMhOh012g08a2	9664
SEQUENCE3358	cMhOh014g05a1	9665
SEQUENCE3359	cMhOh108c11a2	9666
SEQUENCE3360	cMhOh012g02a2	9667
SEQUENCE3361	cMhOh014f09a2	9668
SEQUENCE3362	cMhOh011c09a2	9669
SEQUENCE3363	cMhOh017h12a2	9670
SEQUENCE3364	cMhOh054d04a1	9671
SEQUENCE3365	cMhOh092d10a2	9672
SEQUENCE3366	cMhOh108a11a2	9673
SEQUENCE3367	cMhOh014f07a1	9674
SEQUENCE3368	cMhOh035c03a1	9675
SEQUENCE3370	cMhOh017g06a2	9676
SEQUENCE3371	cMhOh091g07a2	9677
SEQUENCE3372	cMhOh041c05a1	9678
SEQUENCE3373	cMhOh122a01a2	9679
SEQUENCE3374	cMhOh123a05a2	9680
SEQUENCE3375	cMhOh128c07a2	9681
SEQUENCE3377	cMhOi022d03a2	9682
SEQUENCE3378	cMhOi055d08a1	9683
SEQUENCE3379	cMhOi081b10a1	9684
SEQUENCE3380	cMhOi047c06a3	9685
SEQUENCE3381	cMhOi005e03a1	9686
SEQUENCE3383	cMhOi031b04a1	9687
SEQUENCE3384	cMhOi055h07a1	9688
SEQUENCE3385	cMhOi023a12a2	9689
SEQUENCE3386	cMhOi074a11a1	9690
SEQUENCE3387	cMhOi015c09a1	9691
SEQUENCE3388	cMhOi043h11a3	9692
SEQUENCE3389	cMhOi055h08a1	9693
SEQUENCE3390	cMhOi009d06a1	9694
SEQUENCE3391	cMhOi013f08a1	9695
SEQUENCE3392	cMhOi007f01a1	9696
SEQUENCE3393	cMhOi032d09a1	9697
SEQUENCE3394	cMhOi026d09a1	9698

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SEQUENCE3395	cMhOi029f02a1	9699
SEQUENCE3396	cMhOi010f07a1	9700
SEQUENCE3397	cMhOi078a03a1	9701
SEQUENCE3398	cMhOi073c04a1	9702
SEQUENCE3399	cMhOi039c09a2	9703
SEQUENCE3400	cMhOi068d04a1	9704
SEQUENCE3401	cMhOi012b06a1	9705
SEQUENCE3402	cMhOi014g05a1	9706
SEQUENCE3403	cMhOi055d03a1	9707
SEQUENCE3404	cMhOi075a09a2	9708
SEQUENCE3405	cMhOi003d09a1	9709
SEQUENCE3406	cMhOi010g02a1	9710
SEQUENCE3407	cMhOi017c11a1	9711
SEQUENCE3408	cMhOi028c12a1	9712
SEQUENCE3409	cMhOi057d01a1	9713
SEQUENCE3410	cMhOi070b03a1	9714
SEQUENCE3411	cMhOi036d11a2	9715
SEQUENCE3412	cMhOi022e09a2	9716
SEQUENCE3413	cMhOi019f03a1	9717
SEQUENCE3414	cMhOi024a10a2	9718
SEQUENCE3415	cMhOi047c07a3	9719
SEQUENCE3416	cMhOi043c09a3	9720
SEQUENCE3417	cMhOi005e08a1	9721
SEQUENCE3418	cMhOi022f01a2	9722
SEQUENCE3419	cMhOi028b01a1	9723
SEQUENCE3420	cMhOi034b11a1	9724
SEQUENCE3421	cMhOi023b12a2	9725
SEQUENCE3422	cMhOi045a08a1	9726
SEQUENCE3423	cMhOi074b02a1	9727
SEQUENCE3424	cMhOi079a08a1	9728
SEQUENCE3425	cMhOi044a04a1	9729
SEQUENCE3426	cMhOi010e02a1	9730
SEQUENCE3427	cMhOi004h01a1	9731
SEQUENCE3428	cMhOi008c10a1	9732
SEQUENCE3429	cMhOi026g08a1	9733
SEQUENCE3430	cMhOi029f05a1	9734
SEQUENCE3431	cMhOi078d04a1	9735
SEQUENCE3432	cMhOi022h04a2	9736
SEQUENCE3433	cMhOi073e04a1	9737
SEQUENCE3434	cMhOi041c10a2	9738
SEQUENCE3435	cMhOi015a05a1	9739
SEQUENCE3436	cMhOi012f09a1	9740
SEQUENCE3437	cMhOi009b09a1	9741
SEQUENCE3438	cMhOi003g08a1	9742
SEQUENCE3439	cMhOi011a02a1	9743
SEQUENCE3440	cMhOi028e07a1	9744
SEQUENCE3442	cMhOi060f03a2	9745
SEQUENCE3443	cMhOi041f10a2	9746
SEQUENCE3444	cMhOi070e03a1	9747
SEQUENCE3445	cMhOi036f09a2	9748
SEQUENCE3446	cMhOi077e01a1	9749
SEQUENCE3447	cMhOi014e03a1	9750
SEQUENCE3448	cMhOi001f10a1	9751

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SEQUENCE3449	cMhOi024h07a2	9752
SEQUENCE3450	cMhOi021a01a1	9753
SEQUENCE3451	cMhOi002a05a1	9754
SEQUENCE3452	cMhOi005f05a1	9755
SEQUENCE3453	cMhOi049c05a1	9756
SEQUENCE3455	cMhOi022g10a2	9757
SEQUENCE3456	cMhOi034h12a1	9758
SEQUENCE3457	cMhOi014a03a1	9759
SEQUENCE3458	cMhOi022a03a2	9760
SEQUENCE3459	cMhOi079d02a1	9761
SEQUENCE3460	cMhOi013f03a1	9762
SEQUENCE3461	cMhOi044d12a1	9763
SEQUENCE3462	cMhOi007e09a1	9764
SEQUENCE3463	cMhOi045f12a1	9765
SEQUENCE3464	cMhOi005d01a1	9766
SEQUENCE3465	cMhOi008f03a1	9767
SEQUENCE3466	cMhOi027c01a1	9768
SEQUENCE3467	cMhOi031a08a1	9769
SEQUENCE3468	cMhOi023a05a2	9770
SEQUENCE3469	cMhOi073h06a1	9771
SEQUENCE3470	cMhOi041d03a2	9772
SEQUENCE3471	cMhOi015b04a1	9773
SEQUENCE3472	cMhOi012h07a1	9774
SEQUENCE3473	cMhOi009d04a1	9775
SEQUENCE3474	cMhOi001c12a1	9776
SEQUENCE3475	cMhOi031c12a1	9777
SEQUENCE3476	cMhOi026d05a1	9778
SEQUENCE3477	cMhOi029c12a1	9779
SEQUENCE3478	cMhOi077h08a1	9780
SEQUENCE3479	cMhOi041g05a2	9781
SEQUENCE3480	cMhOi070e06a1	9782
SEQUENCE3481	cMhOi038b04a2	9783
SEQUENCE3482	cMhOi055h12a1	9784
SEQUENCE3483	cMhOi067c09a1	9785
SEQUENCE3484	cMhOi021d07a1	9786
SEQUENCE3485	cMhOi014f01a1	9787
SEQUENCE3486	cMhOi026b01a1	9788
SEQUENCE3487	cMhOi051g11a2	9789
SEQUENCE3488	cMhOi002b09a1	9790
SEQUENCE3489	cMhOi007d04a1	9791
SEQUENCE3490	cMhOi074h08a1	9792
SEQUENCE3491	cMhOi010f12a1	9793
SEQUENCE3493	cMhOi035a01a1	9794
SEQUENCE3494	cMhOi056d05a1	9795
SEQUENCE3495	cMhOi068d09a1	9796
SEQUENCE3496	cMhOj058c10a1	9797
SEQUENCE3497	cMhOj056g09a1	9798
SEQUENCE3498	cMhOj102e04a1	9799
SEQUENCE3499	cMhOj048g10a1	9800
SEQUENCE3500	cMhOj108h12a1	9801
SEQUENCE3501	cMhOj050h05a1	9802
SEQUENCE3502	cMhOj090h05a1	9803
SEQUENCE3503	cMhOj099f07a1	9804

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SEQUENCE3504	cMhOj072h05a1	9805
SEQUENCE3505	cMhOj003g09a2	9806
SEQUENCE3506	cMhOj074b06a1	9807
SEQUENCE3507	cMhOj017f02a1	9808
SEQUENCE3508	cMhOj061h09a1	9809
SEQUENCE3509	cMhOj043a10a1	9810
SEQUENCE3510	cMhOj018d04a1	9811
SEQUENCE3511	cMhOj095e02a1	9812
SEQUENCE3512	cMhOj101c11a1	9813
SEQUENCE3513	cMhOj102g03a1	9814
SEQUENCE3514	cMhOj078f02a1	9815
SEQUENCE3515	cMhOj053f10a1	9816
SEQUENCE3516	cMhOj064d04a1	9817
SEQUENCE3517	cMhOj039b05a1	9818
SEQUENCE3518	cMhOj056h01a1	9819
SEQUENCE3519	cMhOj010g10a1	9820
SEQUENCE3520	cMhOj048h10a1	9821
SEQUENCE3521	cMhOj058f12a1	9822
SEQUENCE3522	cMhOj088a10a1	9823
SEQUENCE3523	cMhOj088h08a1	9824
SEQUENCE3524	cMhOj091a09a1	9825
SEQUENCE3525	cMhOj099g01a1	9826
SEQUENCE3526	cMhOj007b09a2	9827
SEQUENCE3527	cMhOj109c08a1	9828
SEQUENCE3528	cMhOj003a07a2	9829
SEQUENCE3529	cMhOj112h09a1	9830
SEQUENCE3530	cMhOj017f03a1	9831
SEQUENCE3531	cMhOj062f04a1	9832
SEQUENCE3532	cMhOj043a11a1	9833
SEQUENCE3533	cMhOj018h06a1	9834
SEQUENCE3534	cMhOj107f12a1	9835
SEQUENCE3535	cMhOj081c07a1	9836
SEQUENCE3536	cMhOj078f09a1	9837
SEQUENCE3538	cMhOj059a06a1	9838
SEQUENCE3539	cMhOj060c09a1	9839
SEQUENCE3540	cMhOj057a03a1	9840
SEQUENCE3541	cMhOj016e11a1	9841
SEQUENCE3542	cMhOj036e03a1	9842
SEQUENCE3543	cMhOj040a12a1	9843
SEQUENCE3544	cMhOj088b10a1	9844
SEQUENCE3545	cMhOj089d03a1	9845
SEQUENCE3546	cMhOj098b04a1	9846
SEQUENCE3547	cMhOj109g11a1	9847
SEQUENCE3548	cMhOj113b02a1	9848
SEQUENCE3549	cMhOj003c04a2	9849
SEQUENCE3550	cMhOj069b01a1	9850
SEQUENCE3551	cMhOj017g04a1	9851
SEQUENCE3552	cMhOj062g08a1	9852
SEQUENCE3553	cMhOj104h01a1	9853
SEQUENCE3554	cMhOj022c07a1	9854
SEQUENCE3555	cMhOj107h04a1	9855
SEQUENCE3556	cMhOj081d06a1	9856
SEQUENCE3557	cMhOj045f12a1	9857

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SEQUENCE3558	cMhOj040h10a1	9858
SEQUENCE3559	cMhOj057e07a1	9859
SEQUENCE3560	cMhOj089f09a1	9860
SEQUENCE3561	cMhOj098c01a1	9861
SEQUENCE3562	cMhOj088f12a1	9862
SEQUENCE3563	cMhOj113b06a1	9863
SEQUENCE3564	cMhOj037h08a1	9864
SEQUENCE3565	cMhOj060f01a1	9865
SEQUENCE3566	cMhOj104h05a1	9866
SEQUENCE3567	cMhOj007c11a2	9867
SEQUENCE3568	cMhOj084b03a1	9868
SEQUENCE3569	cMhOj108a07a1	9869
SEQUENCE3570	cMhOj044e08a1	9870
SEQUENCE3571	cMhOj095a06a1	9871
SEQUENCE3572	cMhOj058b08a1	9872
SEQUENCE3573	cMhOj090a10a1	9873
SEQUENCE3574	cMhOj079b09a1	9874
SEQUENCE3575	cMhOj038e12a1	9875
SEQUENCE3576	cMhOj047a03a1	9876
SEQUENCE3577	cMhOj061a12a1	9877
SEQUENCE3578	cMhOj063c12a1	9878
SEQUENCE3579	cMhOj074b09a1	9879
SEQUENCE3580	cMhOj007e12a2	9880
SEQUENCE3581	cMhOj105c09a1	9881
SEQUENCE3582	cMhOj084e12a1	9882
SEQUENCE3583	cMhOj108d08a1	9883
SEQUENCE3584	cMhOj045a02a1	9884
SEQUENCE3585	cMhOj048g01a1	9885
SEQUENCE3586	cMhOj090b02a1	9886
SEQUENCE3587	cMhOj049a10a1	9887
SEQUENCE3588	cMhOj003c12a2	9888
SEQUENCE3589	cMhOj038h02a1	9889
SEQUENCE3590	cMhOj035c06a1	9890
SEQUENCE3591	cMhOj073e07a1	9891
SEQUENCE3592	cMhOj063f02a1	9892
SEQUENCE3593	cMhOj081d07a1	9893
SEQUENCE3594	cMhOj007f03a2	9894
SEQUENCE3595	cMhOj105g05a1	9895
SEQUENCE3596	cMhOj047e01a1	9896
SEQUENCE3597	cMhOj086b03a1	9897
SEQUENCE3598	cMhOj108g03a1	9898
SEQUENCE3599	cMhOj045c12a1	9899
SEQUENCE3600	cMhOj048g09a1	9900
SEQUENCE3601	cMhOj016f08a1	9901
SEQUENCE3602	cMhOj100h11a1	9902
SEQUENCE3603	cMhOj035c12a1	9903
SEQUENCE3604	cMhOj039a05a1	9904
SEQUENCE3605	cMhOj064b08a1	9905
SEQUENCE3606	cMhOj034b11a1	9906
SEQUENCE3607	cMhOj009c10a1	9907
SEQUENCE3608	cMhOj047b08a1	9908
SEQUENCE3609	cMhOj047e12a1	9909
SEQUENCE3610	cMhOj080h02a1	9910

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SEQUENCE3611	cMhOj081f11a1	9911
SEQUENCE3612	cMhOj059h01a1	9912
SEQUENCE3613	cMhOj086e05a1	9913
SEQUENCE3614	cMhOj034d04a1	9914
SEQUENCE3615	cMhOj107d12a1	9915
SEQUENCE3616	cMhOj070c02a1	9916
SEQUENCE3617	cMhOj036d09a1	9917
SEQUENCE3618	cMhOj074g01a1	9918
SEQUENCE3619	cMhOj017a01a1	9919
SEQUENCE3620	cMhOj092f12a1	9920
SEQUENCE3621	cMhOj083b01a1	9921
SEQUENCE3622	cMhOj010a11a1	9922
SEQUENCE3623	cMhOj081a08a1	9923
SEQUENCE3624	cMhOj048a02a1	9924
SEQUENCE3625	cMhOj086e11a1	9925
SEQUENCE3626	cMhOj107e08a1	9926
SEQUENCE3627	cMhOj060c03a1	9927
SEQUENCE3628	cMhOj095f06a1	9928
SEQUENCE3629	cMhOj034e04a1	9929
SEQUENCE3630	cMhOj070c08a1	9930
SEQUENCE3631	cMhOj079e02a1	9931
SEQUENCE3632	cMhOj065f05a1	9932
SEQUENCE3633	cMhOj074h05a1	9933
SEQUENCE3634	cMhOj093c04a1	9934
SEQUENCE3635	cMhOj091e06a1	9935
SEQUENCE3636	cMhOj083g08a1	9936
SEQUENCE3637	cMhOj052a03a1	9937
SEQUENCE3638	cMhOj048a07a1	9938
SEQUENCE3639	cMhOj045f05a1	9939
SEQUENCE3640	cMhOj086f11a1	9940
SEQUENCE3641	cMhOj064d12a1	9941
SEQUENCE3642	cMhOj095g08a1	9942
SEQUENCE3643	cMhOj034f01a1	9943
SEQUENCE3644	cMhOj078h12a1	9944
SEQUENCE3645	cMhOj070e03a1	9945
SEQUENCE3646	cMhOj059b10a1	9946
SEQUENCE3647	cMhOj049d08a1	9947
SEQUENCE3648	cMhOj037b06a1	9948
SEQUENCE3649	cMhOj067e03a1	9949
SEQUENCE3651	cMhOj079g04a1	9950
SEQUENCE3652	cMhOj091e12a1	9951
SEQUENCE3653	cMhOj093g05a1	9952
SEQUENCE3654	cMhOj104g07a1	9953
SEQUENCE3655	cMhOj083h01a1	9954
SEQUENCE3656	cMhOj053a09a1	9955
SEQUENCE3657	cMhOj048a11a1	9956
SEQUENCE3658	cMhOj076a02a1	9957
SEQUENCE3659	cMhOj087a02a1	9958
SEQUENCE3660	cMhOj054d09a1	9959
SEQUENCE3661	cMhOj064g08a1	9960
SEQUENCE3662	cMhOj034h03a1	9961
SEQUENCE3663	cMhOj022d03a1	9962
SEQUENCE3664	cMhOj096c08a1	9963

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SEQUENCE3665	cMhOj073d06a1	9964
SEQUENCE3666	cMhOj079a12a1	9965
SEQUENCE3667	cMhOj070f06a1	9966
SEQUENCE3668	cMhOj099g08a1	9967
SEQUENCE3669	cMhOj112c12a1	9968
SEQUENCE3670	cMhOj079h06a1	9969
SEQUENCE3671	cMhOj067h10a1	9970
SEQUENCE3672	cMhOj091h12a1	9971
SEQUENCE3673	cMhOj069b10a1	9972
SEQUENCE3674	cMhOj017g10a1	9973
SEQUENCE3675	cMhOj101d08a1	9974
SEQUENCE3676	cMhOj048d09a1	9975
SEQUENCE3677	cMhOj076d11a1	9976
SEQUENCE3678	cMhOj087b05a1	9977
SEQUENCE3679	cMhOj099h11a1	9978
SEQUENCE3680	cMhOj065b11a1	9979
SEQUENCE3681	cMhOj054f08a1	9980
SEQUENCE3682	cMhOj035a03a1	9981
SEQUENCE3683	cMhOj096e03a1	9982
SEQUENCE3684	cMhOj098c10a1	9983
SEQUENCE3685	cMhOj062g09a1	9984
SEQUENCE3686	cMhOj071b08a1	9985
SEQUENCE3687	cMhOj088g02a1	9986
SEQUENCE3688	cMhOj112d12a1	9987
SEQUENCE3689	cMhOj080a03a1	9988
SEQUENCE3690	cMhOj068b06a1	9989
SEQUENCE3691	cMhOj059d06a1	9990
SEQUENCE3693	cMhOj017h04a1	9991
SEQUENCE3694	cMhOj069h07a1	9992
SEQUENCE3695	cMhOj048f03a1	9993
SEQUENCE3696	cMhOj092e11a1	9994
SEQUENCE3697	cMhOj077a01a1	9995
SEQUENCE3698	cMhOj087e09a1	9996
SEQUENCE3699	cMhOj100a01a1	9997
SEQUENCE3700	cMhOj101e08a1	9998
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SEQUENCE3706	cMhOj088g08a1	10003
SEQUENCE3707	cMhOj071b09a1	10004
SEQUENCE3708	cMhOj022g12a1	10005
SEQUENCE3709	cMhOj112f09a1	10006
SEQUENCE3710	cMhOj080b12a1	10007
SEQUENCE3711	cMhOj068f05a1	10008
SEQUENCE3712	cMhOj059d10a1	10009
SEQUENCE3713	cMhOj042e04a1	10010
SEQUENCE3714	cMhOj018a11a1	10011
SEQUENCE3715	cMhOj061b01a1	10012
SEQUENCE3716	cMhOj070a12a1	10013
SEQUENCE3717	cMhOj095c01a1	10014
SEQUENCE3718	cMhOj077f06a1	10015
SEQUENCE3719	cMhOj087h03a1	10016

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SEQUENCE3720	cMhOj100g01a1	10017
SEQUENCE3721	cMhOj102b03a1	10018
SEQUENCE3722	cMhOj056c04a1	10019
SEQUENCE3723	cMhOj108g09a1	10020
SEQUENCE3724	cMhOj050c10a1	10021
SEQUENCE3725	cMhOj090e11a1	10022
SEQUENCE3726	cMhOj098f10a1	10023
SEQUENCE3727	cMhOj072d10a1	10024
SEQUENCE3728	cMhOj003d06a2	10025
SEQUENCE3729	cMhOj023h04a1	10026
SEQUENCE3730	cMhOj080g05a1	10027
SEQUENCE3731	cMhOj016h11a1	10028
SEQUENCE3732	cMhOj074a03a1	10029
SEQUENCE3733	cMhOj017a11a1	10030
SEQUENCE3734	cMhOj061g05a1	10031
SEQUENCE3735	cMhOj043a02a1	10032
SEQUENCE3736	cMhOj018c09a1	10033
SEQUENCE3737	cMhOj059e10a1	10034
SEQUENCE3738	cMhOj095c05a1	10035
SEQUENCE3739	cMhOj065c11a1	10036
SEQUENCE3740	cMhOj077h09a1	10037
SEQUENCE3741	cMhOj053e06a1	10038
SEQUENCE3742	cMhOj064d02a1	10039
SEQUENCE3743	cMhOk070e07a2	10040
SEQUENCE3744	cMhOk073d01a1	10041
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SEQUENCE3750	cMhOk032g09a2	10047
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SEQUENCE3755	cMhOk099e08a1	10052
SEQUENCE3756	cMhOk095c09a1	10053
SEQUENCE3757	cMhOk003f05a3	10054
SEQUENCE3758	cMhOk069g02a2	10055
SEQUENCE3759	cMhOk046e05a2	10056
SEQUENCE3760	cMhOk005e04a2	10057
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SEQUENCE3762	cMhOk068c07a3	10059
SEQUENCE3763	cMhOk087h09a1	10060
SEQUENCE3764	cMhOk011g10a1	10061
SEQUENCE3765	cMhOk086e02a1	10062
SEQUENCE3766	cMhOk053c11a2	10063
SEQUENCE3767	cMhOk040a07a1	10064
SEQUENCE3768	cMhOk037c01a2	10065
SEQUENCE3769	cMhOk076b09a1	10066
SEQUENCE3770	cMhOk093g11a1	10067
SEQUENCE3771	cMhOk039h10a1	10068
SEQUENCE3772	cMhOk108c11a2	10069

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SEQUENCE3773	cMhOk092f07a1	10070
SEQUENCE3774	cMhOk030e04a5	10071
SEQUENCE3775	cMhOk100c05a1	10072
SEQUENCE3776	cMhOk068b04a3	10073
SEQUENCE3778	cMhOk095h06a1	10074
SEQUENCE3779	cMhOk072a04a1	10075
SEQUENCE3780	cMhOk065e12a1	10076
SEQUENCE3781	cMhOk047e04a2	10077
SEQUENCE3782	cMhOk087h10a1	10078
SEQUENCE3783	cMhOk068h09a3	10079
SEQUENCE3784	cMhOk014c11a1	10080
SEQUENCE3786	cMhOk012a09a1	10081
SEQUENCE3787	cMhOk087f03a1	10082
SEQUENCE3788	cMhOk014d11a1	10083
SEQUENCE3789	cMhOk060a07a3	10084
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SEQUENCE3800	cMhOk048h03a2	10095
SEQUENCE3801	cMhOk088h10a1	10096
SEQUENCE3802	cMhOk099d05a1	10097
SEQUENCE3803	cMhOk095c02a1	10098
SEQUENCE3804	cMhOk002g08a2	10099
SEQUENCE3805	cMhOk069b03a2	10100
SEQUENCE3806	cMhOk046c08a2	10101
SEQUENCE3807	cMhOk060g05a3	10102
SEQUENCE3808	cMhOk078e11a1	10103
SEQUENCE3809	cMhOk037f11a2	10104
SEQUENCE3810	cMhOk087f04a1	10105
SEQUENCE3811	cMhOk079a06a1	10106
SEQUENCE3812	cMhOk011a04a1	10107
SEQUENCE3813	cMhOk084g03a1	10108
SEQUENCE3814	cMhOk051f07a2	10109
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SEQUENCE3818	cMhOg022a09a1	10113
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SEQUENCE3821	cMhOg008h07a1	10116
SEQUENCE3822	cMhOg024c05a1	10117
SEQUENCE3823	cMhOg040g01a1	10118
SEQUENCE3824	cMhOg019h06a1	10119
SEQUENCE3825	cMhOg011c05a1	10120
SEQUENCE3826	cMhOg005h03a1	10121
SEQUENCE3827	cMhOg048b06a1	10122

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SEQUENCE3828	cMhOg023f09a1	10123
SEQUENCE3829	cMhOg040h12a1	10124
SEQUENCE3830	cMhOg008h05a1	10125
SEQUENCE3831	cMhOg019a03a1	10126
SEQUENCE3832	cMhOg005f06a1	10127
SEQUENCE3833	cMhOg010e04a1	10128
SEQUENCE3834	cMhOg046f03a2	10129
SEQUENCE3835	cMhOg008c08a1	10130
SEQUENCE3836	cMhOg051f03a1	10131
SEQUENCE3837	cMhOg054e04a1	10132
SEQUENCE3838	cMhOg050e09a1	10133
SEQUENCE3839	cMhOg022d04a1	10134
SEQUENCE3840	cMhOg020d04a1	10135
SEQUENCE3841	cMhOg020a12a1	10136
SEQUENCE3842	cMhOg039d12a1	10137
SEQUENCE3843	cMhOg008b08a1	10138
SEQUENCE3844	cMhOg038c11a1	10139
SEQUENCE3845	cMhOg052a07a1	10140
SEQUENCE3846	cMhOg052g03a1	10141
SEQUENCE3847	cMhOg009b05a1	10142
SEQUENCE3848	cMhOg021f05a1	10143
SEQUENCE3849	cMhOg024f04a1	10144
SEQUENCE3850	cMhOg043b09a1	10145
SEQUENCE3851	cMhOg006b08a1	10146
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SEQUENCE3854	cMhOg024a03a1	10149
SEQUENCE3855	cMhOg011f10a1	10150
SEQUENCE3856	cMhOg041d01a1	10151
SEQUENCE3857	cMhOg032h10a1	10152
SEQUENCE3858	cMhOg019c09a1	10153
SEQUENCE3859	cMhOg050a06a1	10154
SEQUENCE3860	cMhOg046f10a2	10155
SEQUENCE3861	cMhOg008d01a1	10156
SEQUENCE3862	cMhOg051g08a1	10157
SEQUENCE3863	cMhOg020h10a1	10158
SEQUENCE3864	cMhOg045g05a1	10159
SEQUENCE3865	cMhOg015e01a1	10160
SEQUENCE3866	cMhOg020b05a1	10161
SEQUENCE3867	cMhOg001e11a2	10162
SEQUENCE3868	cMhOg022f09a1	10163
SEQUENCE3869	cMhOg050g07a1	10164
SEQUENCE3870	cMhOg009e03a1	10165
SEQUENCE3871	cMhOg020f09a1	10166
SEQUENCE3872	cMhOg023a08a1	10167
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SEQUENCE3875	cMhOg052h07a1	10169
SEQUENCE3876	cMhOg009c05a1	10170
SEQUENCE3877	cMhOg038e09a1	10171
SEQUENCE3878	cMhOg031d11a1	10172
SEQUENCE3879	cMhOg021g04a1	10173
SEQUENCE3880	cMhOg043g06a1	10174
SEQUENCE3881	cMhOg034e10a1	10175

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SEQUENCE3882	cMhOg041f06a1	10176
SEQUENCE3883	cMhOg033b10a1	10177
SEQUENCE3884	cMhOg024c01a1	10178
SEQUENCE3885	cMhOg015b08a1	10179
SEQUENCE3886	cMhOg054b06a1	10180
SEQUENCE3887	cMhOg019e04a1	10181
SEQUENCE3888	cMhOg046g02a2	10182
SEQUENCE3889	cMhOg021d03a1	10183
SEQUENCE3890	cMhOg001h05a2	10184
SEQUENCE3891	cMhOg018b04a1	10185
SEQUENCE3892	cMhOg008f04a1	10186
SEQUENCE3893	cMhOg003c08a2	10187
SEQUENCE3894	cMhOg054a01a1	10188
SEQUENCE3895	cMhOg010c12a1	10189
SEQUENCE3896	cMhOg051b09a1	10190
SEQUENCE3897	cMhOg008c04a1	10191
SEQUENCE3898	cMhOg053f11a1	10192
SEQUENCE3899	cMhOh129a11a2	10193
SEQUENCE3900	cMhOh025c02a1	10194
SEQUENCE3901	cMhOh126b04a2	10195
SEQUENCE3902	cMhOh014g09a1	10196
SEQUENCE3903	cMhOh029b10a1	10197
SEQUENCE3904	cMhOh039h06a1	10198
SEQUENCE3905	cMhOh001c07a2	10199
SEQUENCE3906	cMhOh090e03a2	10200
SEQUENCE3907	cMhOh129a12a2	10201
SEQUENCE3908	cMhOh106g01a2	10202
SEQUENCE3909	cMhOh126b08a2	10203
SEQUENCE3910	cMhOh073b10a3	10204
SEQUENCE3911	cMhOh011h05a2	10205
SEQUENCE3912	cMhOh039h09a1	10206
SEQUENCE3913	cMhOh122e08a2	10207
SEQUENCE3914	cMhOh091h03a2	10208
SEQUENCE3915	cMhOh116f03a2	10209
SEQUENCE3916	cMhOh106g10a2	10210
SEQUENCE3917	cMhOh068a06a1	10211
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SEQUENCE3924	cMhOh040d06a1	10218
SEQUENCE3925	cMhOh123b03a2	10219
SEQUENCE3926	cMhOh092d02a2	10220
SEQUENCE3927	cMhOh001b07a2	10221
SEQUENCE3928	cMhOh108a04a2	10222
SEQUENCE3929	cMhOh034g06a1	10223
SEQUENCE3930	cMhOh106d08a2	10224
SEQUENCE3931	cMhOh114b03a2	10225
SEQUENCE3932	cMhOh076d07a1	10226
SEQUENCE3933	cMhOh013g04a1	10227
SEQUENCE3934	cMhOh052h03a2	10228

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SEQUENCE3935	cMhOh073e03a3	10229
SEQUENCE3936	cMhOh123d07a2	10230
SEQUENCE3937	cMhOh092d08a2	10231
SEQUENCE3938	cMhOh083a08a3	10232
SEQUENCE3939	cMhOh001b08a2	10233
SEQUENCE3940	cMhOh108b04a2	10234
SEQUENCE3941	cMhOh120h04a2	10235
SEQUENCE3942	cMhOh035d03a1	10236
SEQUENCE3943	cMhOh106d12a2	10237
SEQUENCE3944	cMhOh019h10a1	10238
SEQUENCE3945	cMhOh069c03a1	10239
SEQUENCE3946	cMhOh077e10a1	10240
SEQUENCE3947	cMhOh074c01a2	10241
SEQUENCE3948	cMhOh053b11a1	10242
SEQUENCE3949	cMhOh088c07a2	10243
SEQUENCE3950	cMhOh123e04a2	10244
SEQUENCE3951	cMhOh060d12a1	10245
SEQUENCE3952	cMhOh083c03a3	10246
SEQUENCE3953	cMhOh014c03a1	10247
SEQUENCE3954	cMhOh121c04a2	10248
SEQUENCE3955	cMhOh035d07a1	10249
SEQUENCE3956	cMhOh106f11a2	10250
SEQUENCE3957	cMhOh039d12a1	10251
SEQUENCE3958	cMhOh069f03a1	10252
SEQUENCE3959	cMhOh079e08a1	10253
SEQUENCE3960	cMhOh119h02a2	10254
SEQUENCE3961	cMhOh074c02a2	10255
SEQUENCE3962	cMhOh125e10a2	10256
SEQUENCE3963	cMhOh088d04a2	10257
SEQUENCE3964	cMhOh123e05a2	10258
SEQUENCE3965	cMhOh060h07a1	10259
SEQUENCE3966	cMhOh125b10a2	10260
SEQUENCE3967	cMhOh083e04a3	10261
SEQUENCE3968	cMhOh014g07a1	10262
SEQUENCE3969	cMhOh121e08a2	10263
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SEQUENCE3971	cMhOh069f11a1	10265
SEQUENCE3972	cMhOh079g11a1	10266
SEQUENCE3973	cMhOh011g01a1	10267
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SEQUENCE3975	cMhOh092e07a2	10269
SEQUENCE3976	cMhOh120a07a2	10270
SEQUENCE3977	cMhOh089g09a2	10271
SEQUENCE3978	cMhOh094d08a3	10272
SEQUENCE3979	cMhOh123h05a2	10273
SEQUENCE3980	cMhOh053e11a1	10274
SEQUENCE3981	cMhOh013a08a2	10275
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SEQUENCE3983	cMhOh083f08a3	10277
SEQUENCE3984	cMhOh033e05a1	10278
SEQUENCE3985	cMhOh113h08a2	10279
SEQUENCE3986	cMhOh036b05a1	10280
SEQUENCE3987	cMhOh014h06a1	10281

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SEQUENCE3988	cMhOh069h04a1	10282
SEQUENCE3989	cMhOh011g09a2	10283
SEQUENCE3990	cMhOh075e01a2	10284
SEQUENCE3991	cMhOh114c09a2	10285
SEQUENCE3992	cMhOh120a12a2	10286
SEQUENCE3993	cMhOh095f09a2	10287
SEQUENCE3994	cMhOh054a03a1	10288
SEQUENCE3995	cMhOh013b01a1	10289
SEQUENCE3996	cMhOh025c01a1	10290
SEQUENCE3997	cMhOh083h08a3	10291
SEQUENCE3998	cMhOh034c06a1	10292
SEQUENCE3999	cMhOh036f12a1	10293
SEQUENCE4000	cMhOh017f02a1	10294
SEQUENCE4001	cMhOh122b11a2	10295
SEQUENCE4002	cMhOh015d06a1	10296
SEQUENCE4003	cMhOh120b07a2	10297
SEQUENCE4004	cMhOh003h11a1	10298
SEQUENCE4005	cMhOh029h08a1	10299
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SEQUENCE4007	cMhOh093b11a2	10301
SEQUENCE4008	cMhOh055b03a1	10302
SEQUENCE4009	cMhOh013f02a1	10303
SEQUENCE4010	cMhOh086a06a2	10304
SEQUENCE4011	cMhOh034e03a1	10305
SEQUENCE4012	cMhOh057f03a1	10306
SEQUENCE4013	cMhOh038b03a1	10307
SEQUENCE4014	cMhOh080d04a1	10308
SEQUENCE4015	cMhOh008e03a2	10309
SEQUENCE4016	cMhOh018a09a1	10310
SEQUENCE4017	cMhOh117c12a3	10311
SEQUENCE4018	cMhOh015d10a2	10312
SEQUENCE4019	cMhOh120f09a2	10313
SEQUENCE4020	cMhOh129e11a2	10314
SEQUENCE4021	cMhOh005f03a1	10315
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SEQUENCE4024	cMhOh093f06a2	10318
SEQUENCE4025	cMhOh114b01a2	10319
SEQUENCE4026	cMhOh086e04a2	10320
SEQUENCE4027	cMhOh059f02a2	10321
SEQUENCE4028	cMhOh038g10a1	10322
SEQUENCE4029	cMhOh081f04a1	10323
SEQUENCE4030	cMhOh118e07a2	10324
SEQUENCE4031	cMhOh018e06a1	10325
SEQUENCE4032	cMhOh015e01a1	10326
SEQUENCE4033	cMhOh110f08a2	10327
SEQUENCE4034	cMhOh131a05a3	10328
SEQUENCE4035	cMhOh044e12a2	10329
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SEQUENCE4037	cMhOh005g04a1	10331
SEQUENCE4038	cMhOh030f04a1	10332
SEQUENCE4039	cMhOh104c02a2	10333
SEQUENCE4040	cMhOh011h10a1	10334

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SEQUENCE4041	cMhOh094d02a3	10335
SEQUENCE4042	cMhOh019e01a2	10336
SEQUENCE4043	cMhOh039c08a1	10337
SEQUENCE4044	cMhOh119c02a2	10338
SEQUENCE4045	cMhOh015g06a2	10339
SEQUENCE4046	cMhOh131a12a3	10340
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SEQUENCE4048	cMhOh031a09a2	10342
SEQUENCE4049	cMhOh104g04a2	10343
SEQUENCE4050	cMhOh012e11a2	10344
SEQUENCE4051	cMhOh128b10a2	10345
SEQUENCE4052	cMhOh113a07a2	10346
SEQUENCE4053	cMhOh011a07a1	10347
SEQUENCE4054	cMhOh021a02a1	10348
SEQUENCE4055	cMhOh131d08a3	10349
SEQUENCE4056	cMhOh048c01a1	10350
SEQUENCE4057	cMhOh109g09a2	10351
SEQUENCE4058	cMhOh031d10a2	10352
SEQUENCE4059	cMhOh104h10a2	10353
SEQUENCE4060	cMhOh013a04a1	10354
SEQUENCE4061	cMhOh128c01a2	10355
SEQUENCE4063	cMhOh113c01a2	10356
SEQUENCE4064	cMhOh011e07a1	10357
SEQUENCE4065	cMhOh025a03a1	10358
SEQUENCE4066	cMhOh008b11a2	10359
SEQUENCE4067	cMhOh131g07a3	10360
SEQUENCE4068	cMhOh052e09a2	10361
SEQUENCE4069	cMhOh110d06a2	10362
SEQUENCE4070	cMhOh016c07a1	10363
SEQUENCE4071	cMhOh033c04a1	10364
SEQUENCE4072	cMhOh105e09a2	10365
SEQUENCE4073	cMhOi045e08a1	10366
SEQUENCE4074	cMhOi034h11a1	10367
SEQUENCE4075	cMhOi074b09a1	10368
SEQUENCE4076	cMhOi071g03a1	10369
SEQUENCE4077	cMhOi068h07a1	10370
SEQUENCE4079	cMhOi046h12a1	10371
SEQUENCE4080	cMhOi017c04a1	10372
SEQUENCE4081	cMhOi041e01a2	10373
SEQUENCE4082	cMhOi031b01a1	10374
SEQUENCE4083	cMhOi038b10a2	10375
SEQUENCE4084	cMhOi004e05a1	10376
SEQUENCE4085	cMhOi028b07a1	10377
SEQUENCE4086	cMhOi071c06a1	10378
SEQUENCE4087	cMhOi072a09a1	10379
SEQUENCE4088	cMhOi009g11a1	10380
SEQUENCE4089	cMhOi013c06a1	10381
SEQUENCE4090	cMhOi055g03a1	10382
SEQUENCE4091	cMhOi028g09a1	10383
SEQUENCE4092	cMhOi027e11a1	10384
SEQUENCE4093	cMhOi045h11a1	10385
SEQUENCE4094	cMhOi010e12a1	10386
SEQUENCE4095	cMhOi027e07a1	10387

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SEQUENCE4096	cMhOi046g07a1	10388
SEQUENCE4097	cMhOi035e07a1	10389
SEQUENCE4098	cMhOi077d05a1	10390
SEQUENCE4099	cMhOi007d06a1	10391
SEQUENCE4100	cMhOi069f01a1	10392
SEQUENCE4101	cMhOi023h02a2	10393
SEQUENCE4102	cMhOi047d01a3	10394
SEQUENCE4103	cMhOi019h05a1	10395
SEQUENCE4104	cMhOi042h11a1	10396
SEQUENCE4105	cMhOi031g04a1	10397
SEQUENCE4106	cMhOi039c03a2	10398
SEQUENCE4107	cMhOi028g03a1	10399
SEQUENCE4108	cMhOi071d02a1	10400
SEQUENCE4109	cMhOi072b01a1	10401
SEQUENCE4110	cMhOi079g09a1	10402
SEQUENCE4111	cMhOi010e08a1	10403
SEQUENCE4112	cMhOi021g09a1	10404
SEQUENCE4113	cMhOi013g12a1	10405
SEQUENCE4114	cMhOi056f04a1	10406
SEQUENCE4115	cMhOi040d08a2	10407
SEQUENCE4116	cMhOi029c03a1	10408
SEQUENCE4117	cMhOi071b09a1	10409
SEQUENCE4118	cMhOi027f11a1	10410
SEQUENCE4119	cMhOi002d02a1	10411
SEQUENCE4120	cMhOi009a02a1	10412
SEQUENCE4121	cMhOi001h10a1	10413
SEQUENCE4122	cMhOi037b05a1	10414
SEQUENCE4123	cMhOi077g05a1	10415
SEQUENCE4124	cMhOi007e07a1	10416
SEQUENCE4125	cMhOi070e10a1	10417
SEQUENCE4126	cMhOi012d05a1	10418
SEQUENCE4127	cMhOi024e08a2	10419
SEQUENCE4128	cMhOi047d07a3	10420
SEQUENCE4129	cMhOi021b05a1	10421
SEQUENCE4130	cMhOi060a10a2	10422
SEQUENCE4131	cMhOi045c07a1	10423
SEQUENCE4132	cMhOi031h10a1	10424
SEQUENCE4133	cMhOi040b02a2	10425
SEQUENCE4134	cMhOi072f11a1	10426
SEQUENCE4135	cMhOi071e05a1	10427
SEQUENCE4136	cMhOi068c04a1	10428
SEQUENCE4137	cMhOi022c02a2	10429
SEQUENCE4138	cMhOi014g07a1	10430
SEQUENCE4139	cMhOi056f06a1	10431
SEQUENCE4140	cMhOi041a07a2	10432
SEQUENCE4141	cMhOi030b10a1	10433
SEQUENCE4142	cMhOi037h08a1	10434
SEQUENCE4143	cMhOi028a05a1	10435
SEQUENCE4144	cMhOi002e12a1	10436
SEQUENCE4145	cMhOi071c01a1	10437
SEQUENCE4146	cMhOi072a03a1	10438
SEQUENCE4147	cMhOi009f05a1	10439
SEQUENCE4148	cMhOi081e04a1	10440

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SEQUENCE4149	cMhOi055f06a1	10441
SEQUENCE4150	cMhOi002b08a1	10442
SEQUENCE4151	cMhOi004g01a1	10443
SEQUENCE4152	cMhOi037f01a1	10444
SEQUENCE4153	cMhOi078d12a1	10445
SEQUENCE4154	cMhOi045g04a1	10446
SEQUENCE4155	cMhOi070h12a1	10447
SEQUENCE4156	cMhOi012g12a1	10448
SEQUENCE4157	cMhOi025f06a2	10449
SEQUENCE4158	cMhOi054a06a1	10450
SEQUENCE4159	cMhOj092a07a1	10451
SEQUENCE4160	cMhOj057h05a1	10452
SEQUENCE4161	cMhOj061g09a1	10453
SEQUENCE4162	cMhOj088a05a1	10454
SEQUENCE4163	cMhOj090a04a1	10455
SEQUENCE4164	cMhOj073a06a1	10456
SEQUENCE4165	cMhOj037d10a1	10457
SEQUENCE4166	cMhOj083g12a1	10458
SEQUENCE4167	cMhOj078g12a1	10459
SEQUENCE4168	cMhOj067b06a1	10460
SEQUENCE4169	cMhOj022g08a1	10461
SEQUENCE4170	cMhOj108b05a1	10462
SEQUENCE4171	cMhOj048d03a1	10463
SEQUENCE4172	cMhOj068e01a1	10464
SEQUENCE4173	cMhOj058c02a1	10465
SEQUENCE4174	cMhOj112c02a1	10466
SEQUENCE4175	cMhOj094g06a1	10467
SEQUENCE4176	cMhOj061h01a1	10468
SEQUENCE4177	cMhOj088a12a1	10469
SEQUENCE4178	cMhOj049g05a1	10470
SEQUENCE4179	cMhOj090a11a1	10471
SEQUENCE4180	cMhOj073a09a1	10472
SEQUENCE4181	cMhOj037e05a1	10473
SEQUENCE4182	cMhOj056d12a1	10474
SEQUENCE4183	cMhOj084b06a1	10475
SEQUENCE4184	cMhOj079b10a1	10476
SEQUENCE4185	cMhOj067c06a1	10477
SEQUENCE4186	cMhOj081f10a1	10478
SEQUENCE4187	cMhOj068e07a1	10479
SEQUENCE4188	cMhOj048e11a1	10480
SEQUENCE4189	cMhOj076c06a1	10481
SEQUENCE4190	cMhOj007b03a2	10482
SEQUENCE4191	cMhOj058h03a1	10483
SEQUENCE4192	cMhOj113c01a1	10484
SEQUENCE4193	cMhOj095b09a1	10485
SEQUENCE4194	cMhOj088b12a1	10486
SEQUENCE4195	cMhOj093g10a1	10487
SEQUENCE4196	cMhOj108g04a1	10488
SEQUENCE4197	cMhOj090f03a1	10489
SEQUENCE4198	cMhOj073c04a1	10490
SEQUENCE4199	cMhOj038e03a1	10491
SEQUENCE4200	cMhOj072c10a1	10492
SEQUENCE4201	cMhOj075b08a1	10493

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SEQUENCE4202	cMhOj056e02a1	10494
SEQUENCE4203	cMhOj084c07a1	10495
SEQUENCE4204	cMhOj082a02a1	10496
SEQUENCE4205	cMhOj067c11a1	10497
SEQUENCE4206	cMhOj069b02a1	10498
SEQUENCE4207	cMhOj070h02a1	10499
SEQUENCE4208	cMhOj013h01a1	10500
SEQUENCE4209	cMhOj113c07a1	10501
SEQUENCE4210	cMhOj095e04a1	10502
SEQUENCE4211	cMhOj088h04a1	10503
SEQUENCE4212	cMhOj093h07a1	10504
SEQUENCE4213	cMhOj109a11a1	10505
SEQUENCE4214	cMhOj090g02a1	10506
SEQUENCE4215	cMhOj073f06a1	10507
SEQUENCE4216	cMhOj038f05a1	10508
SEQUENCE4217	cMhOj072c11a1	10509
SEQUENCE4218	cMhOj076a05a1	10510
SEQUENCE4219	cMhOj056e08a1	10511
SEQUENCE4220	cMhOj084d06a1	10512
SEQUENCE4221	cMhOj083a08a1	10513
SEQUENCE4222	cMhOj086e03a1	10514
SEQUENCE4223	cMhOj069c05a1	10515
SEQUENCE4224	cMhOj071c12a1	10516
SEQUENCE4225	cMhOj099h04a1	10517
SEQUENCE4226	cMhOj016a12a1	10518
SEQUENCE4227	cMhOj023e09a1	10519
SEQUENCE4228	cMhOj113c10a1	10520
SEQUENCE4229	cMhOj109f04a1	10521
SEQUENCE4230	cMhOj089b04a1	10522
SEQUENCE4231	cMhOj003c02a2	10523
SEQUENCE4232	cMhOj062a03a1	10524
SEQUENCE4233	cMhOj073f12a1	10525
SEQUENCE4234	cMhOj038g03a1	10526
SEQUENCE4235	cMhOj056f12a1	10527
SEQUENCE4236	cMhOj084h02a1	10528
SEQUENCE4237	cMhOj056b04a1	10529
SEQUENCE4238	cMhOj087b10a1	10530
SEQUENCE4239	cMhOj038h11a1	10531
SEQUENCE4240	cMhOj071e01a1	10532
SEQUENCE4242	cMhOj098f07a1	10533
SEQUENCE4243	cMhOj017c11a1	10534
SEQUENCE4244	cMhOj023f05a1	10535
SEQUENCE4245	cMhOj100c08a1	10536
SEQUENCE4246	cMhOj113d01a1	10537
SEQUENCE4247	cMhOj003c07a2	10538
SEQUENCE4248	cMhOj062a04a1	10539
SEQUENCE4250	cMhOj052c12a1	10540
SEQUENCE4251	cMhOj085b03a1	10541
SEQUENCE4252	cMhOj087f08a1	10542
SEQUENCE4253	cMhOj039a06a1	10543
SEQUENCE4254	cMhOj069d08a1	10544
SEQUENCE4255	cMhOj071e12a1	10545
SEQUENCE4256	cMhOj099c08a1	10546

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SEQUENCE4257	cMhOj017d04a1	10547
SEQUENCE4258	cMhOj023f11a1	10548
SEQUENCE4259	cMhOj094a05a1	10549
SEQUENCE4260	cMhOj101a11a1	10550
SEQUENCE4261	cMhOj070e07a1	10551
SEQUENCE4262	cMhOj063b05a1	10552
SEQUENCE4263	cMhOj072d04a1	10553
SEQUENCE4264	cMhOj111h09a1	10554
SEQUENCE4265	cMhOj074e01a1	10555
SEQUENCE4266	cMhOj052e03a1	10556
SEQUENCE4267	cMhOj083e09a1	10557
SEQUENCE4268	cMhOj085b08a1	10558
SEQUENCE4269	cMhOj042h08a1	10559
SEQUENCE4270	cMhOj088a01a1	10560
SEQUENCE4271	cMhOj039b06a1	10561
SEQUENCE4272	cMhOj072b07a1	10562
SEQUENCE4273	cMhOj099d06a1	10563
SEQUENCE4274	cMhOj101b04a1	10564
SEQUENCE4275	cMhOj018a02a1	10565
SEQUENCE4276	cMhOj035b05a1	10566
SEQUENCE4277	cMhOj094d10a1	10567
SEQUENCE4278	cMhOj102g02a1	10568
SEQUENCE4279	cMhOj096a04a1	10569
SEQUENCE4280	cMhOj070e08a1	10570
SEQUENCE4281	cMhOj076e10a1	10571
SEQUENCE4282	cMhOj063d05a1	10572
SEQUENCE4283	cMhOj081a01a1	10573
SEQUENCE4284	cMhOj074f12a1	10574
SEQUENCE4285	cMhOj052g10a1	10575
SEQUENCE4286	cMhOj056c01a1	10576
SEQUENCE4287	cMhOj085b11a1	10577
SEQUENCE4288	cMhOj043a03a1	10578
SEQUENCE4289	cMhOj105e05a1	10579
SEQUENCE4290	cMhOj039g02a1	10580
SEQUENCE4291	cMhOj046b05a1	10581
SEQUENCE4292	cMhOj099e08a1	10582
SEQUENCE4293	cMhOj102a02a1	10583
SEQUENCE4294	cMhOj018b11a1	10584
SEQUENCE4295	cMhOj035g06a1	10585
SEQUENCE4296	cMhOj102g06a1	10586
SEQUENCE4297	cMhOj096d06a1	10587
SEQUENCE4298	cMhOj070g04a1	10588
SEQUENCE4299	cMhOj076f07a1	10589
SEQUENCE4300	cMhOj063e06a1	10590
SEQUENCE4301	cMhOj081c02a1	10591
SEQUENCE4302	cMhOj061h07a1	10592
SEQUENCE4303	cMhOj075b02a1	10593
SEQUENCE4304	cMhOj053b04a1	10594
SEQUENCE4305	cMhOj085c03a1	10595
SEQUENCE4306	cMhOj108g02a1	10596
SEQUENCE4307	cMhOj044d06a1	10597
SEQUENCE4308	cMhOj041b01a1	10598
SEQUENCE4309	cMhOj046e01a1	10599

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SEQUENCE4310	cMhOj099f04a1	10600
SEQUENCE4311	cMhOj102a06a1	10601
SEQUENCE4312	cMhOj104e12a1	10602
SEQUENCE4313	cMhOj035h08a1	10603
SEQUENCE4314	cMhOj072c07a1	10604
SEQUENCE4315	cMhOj096d09a1	10605
SEQUENCE4316	cMhOj053e05a1	10606
SEQUENCE4317	cMhOj077b05a1	10607
SEQUENCE4318	cMhOj063f10a1	10608
SEQUENCE4319	cMhOj053b05a1	10609
SEQUENCE4320	cMhOj086a09a1	10610
SEQUENCE4321	cMhOj045b12a1	10611
SEQUENCE4322	cMhOj049a02a1	10612
SEQUENCE4323	cMhOj041g01a1	10613
SEQUENCE4324	cMhOj047d01a1	10614
SEQUENCE4325	cMhOj023d12a1	10615
SEQUENCE4326	cMhOj059b03a1	10616
SEQUENCE4327	cMhOj099h02a1	10617
SEQUENCE4328	cMhOj036h06a1	10618
SEQUENCE4329	cMhOj102d04a1	10619
SEQUENCE4330	cMhOj105c02a1	10620
SEQUENCE4331	cMhOj079f09a1	10621
SEQUENCE4332	cMhOj054e05a1	10622
SEQUENCE4333	cMhOj018d03a1	10623
SEQUENCE4334	cMhOj065f03a1	10624
SEQUENCE4335	cMhOj077e08a1	10625
SEQUENCE4336	cMhOj049g09a1	10626
SEQUENCE4337	cMhOj096h12a1	10627
SEQUENCE4338	cMhOj053c12a1	10628
SEQUENCE4339	cMhOj003c11a2	10629
SEQUENCE4340	cMhOj107b10a1	10630
SEQUENCE4341	cMhOj067d11a1	10631
SEQUENCE4342	cMhOj045g07a1	10632
SEQUENCE4343	cMhOj049a04a1	10633
SEQUENCE4344	cMhOj042a04a1	10634
SEQUENCE4345	cMhOj047d07a1	10635
SEQUENCE4346	cMhOj105c11a1	10636
SEQUENCE4347	cMhOj059e03a1	10637
SEQUENCE4348	cMhOj102f10a1	10638
SEQUENCE4349	cMhOj036h08a1	10639
SEQUENCE4350	cMhOj080a01a1	10640
SEQUENCE4351	cMhOj054e11a1	10641
SEQUENCE4352	cMhOj018g04a1	10642
SEQUENCE4353	cMhOj065h10a1	10643
SEQUENCE4354	cMhOj078d12a1	10644
SEQUENCE4355	cMhOj049h02a1	10645
SEQUENCE4356	cMhOj003f12a2	10646
SEQUENCE4357	cMhOj107e02a1	10647
SEQUENCE4358	cMhOj067g09a1	10648
SEQUENCE4359	cMhOj045h10a1	10649
SEQUENCE4360	cMhOj049b06a1	10650
SEQUENCE4361	cMhOj056g06a1	10651
SEQUENCE4362	cMhOj048b01a1	10652

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SEQUENCE4363	cMhOj091c01a1	10653
SEQUENCE4364	cMhOj061b10a1	10654
SEQUENCE4365	cMhOj105e04a1	10655
SEQUENCE4366	cMhOj089f07a1	10656
SEQUENCE4367	cMhOj080b02a1	10657
SEQUENCE4368	cMhOj054f05a1	10658
SEQUENCE4369	cMhOj018h11a1	10659
SEQUENCE4370	cMhOj066h12a1	10660
SEQUENCE4371	cMhOj007a04a2	10661
SEQUENCE4372	cMhOj022e12a1	10662
SEQUENCE4373	cMhOj107e10a1	10663
SEQUENCE4374	cMhOj068a05a1	10664
SEQUENCE4375	cMhOj046a06a1	10665
SEQUENCE4376	cMhOj049f10a1	10666
SEQUENCE4377	cMhOj057e08a1	10667
SEQUENCE4378	cMhOj091h02a1	10668
SEQUENCE4379	cMhOj061d08a1	10669
SEQUENCE4380	cMhOj090a03a1	10670
SEQUENCE4381	cMhOj080g10a1	10671
SEQUENCE4382	cMhOj054f12a1	10672
SEQUENCE4383	cMhOj053d10a1	10673
SEQUENCE4384	cMhOj037b09a1	10674
SEQUENCE4385	cMhOj078e06a1	10675
SEQUENCE4386	cMhOj007a10a2	10676
SEQUENCE4387	cMhOj022f12a1	10677
SEQUENCE4388	cMhOj108a03a1	10678
SEQUENCE4389	cMhOj068d10a1	10679
SEQUENCE4390	cMhOj046a08a1	10680
SEQUENCE4391	cMhOk016b05a1	10681
SEQUENCE4392	cMhOk081d11a1	10682
SEQUENCE4393	cMhOk016g03a1	10683
SEQUENCE4394	cMhOk086h09a1	10684
SEQUENCE4395	cMhOk011a02a1	10685
SEQUENCE4396	cMhOk051a01a2	10686
SEQUENCE4397	cMhOk057d11a1	10687
SEQUENCE4398	cMhOk045b09a2	10688
SEQUENCE4399	cMhOk073c06a1	10689
SEQUENCE4400	cMhOk090g11a1	10690
SEQUENCE4401	cMhOk036d10a2	10691
SEQUENCE4402	cMhOk013a11a1	10692
SEQUENCE4403	cMhOk082c03a1	10693
SEQUENCE4404	cMhOk088f05a1	10694
SEQUENCE4405	cMhOk018b01a2	10695
SEQUENCE4406	cMhOk092g06a1	10696
SEQUENCE4407	cMhOk054e01a1	10697
SEQUENCE4408	cMhOk060h04a3	10698
SEQUENCE4409	cMhOk045c12a2	10699
SEQUENCE4411	cMhOk091h02a1	10700
SEQUENCE4412	cMhOk100h10a1	10701
SEQUENCE4413	cMhOk013c01a1	10702
SEQUENCE4414	cMhOk082d10a1	10703
SEQUENCE4415	cMhOk018f07a2	10704
SEQUENCE4416	cMhOk029d07a1	10705

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SEQUENCE4417	cMhOk097a01a1	10706
SEQUENCE4418	cMhOk055d02a2	10707
SEQUENCE4419	cMhOk064d12a1	10708
SEQUENCE4420	cMhOk078g06a1	10709
SEQUENCE4421	cMhOk023h08a1	10710
SEQUENCE4422	cMhOk101h06a1	10711
SEQUENCE4423	cMhOk037d06a2	10712
SEQUENCE4424	cMhOk014d03a1	10713
SEQUENCE4425	cMhOk081a08a1	10714
SEQUENCE4426	cMhOk086c03a1	10715
SEQUENCE4427	cMhOk021d05a1	10716
SEQUENCE4428	cMhOk030h07a5	10717
SEQUENCE4429	cMhOk010d09a1	10718
SEQUENCE4430	cMhOk046h09a2	10719
SEQUENCE4431	cMhOk056a12a3	10720
SEQUENCE4432	cMhOk071g09a2	10721
SEQUENCE4433	cMhOk037h06a2	10722
SEQUENCE4434	cMhOk072h06a1	10723
SEQUENCE4435	cMhOk080b05a1	10724
SEQUENCE4436	cMhOk113b12a3	10725
SEQUENCE4437	cMhOk037e02a2	10726
SEQUENCE4438	cMhOg001h12a2	10727
SEQUENCE4439	cMhOg046f02a2	10728
SEQUENCE4440	cMhOg048d06a1	10729
SEQUENCE4441	cMhOg045f03a1	10730
SEQUENCE4442	cMhOg051f11a1	10731
SEQUENCE4443	cMhOg023c07a1	10732
SEQUENCE4444	cMhOh116c05a2	10733
SEQUENCE4445	cMhOh015e12a2	10734
SEQUENCE4446	cMhOh082e12a3	10735
SEQUENCE4447	cMhOh084b12a1	10736
SEQUENCE4448	cMhOh014e11a2	10737
SEQUENCE4449	cMhOh072a09a1	10738
SEQUENCE4450	cMhOh036c07a1	10739
SEQUENCE4451	cMhOh053e05a1	10740
SEQUENCE4452	cMhOh117e08a3	10741
SEQUENCE4453	cMhOh039c10a1	10742
SEQUENCE4454	cMhOh069f12a1	10743
SEQUENCE4455	cMhOh083g07a3	10744
SEQUENCE4456	cMhOi069g09a1	10745
SEQUENCE4457	cMhOi010c05a1	10746
SEQUENCE4458	cMhOi003b02a1	10747
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SEQUENCE4463	cMhOj105b05a1	10752
SEQUENCE4464	cMhOj109e07a1	10753
SEQUENCE4465	cMhOj036a04a1	10754
SEQUENCE4466	cMhOj112g02a1	10755
SEQUENCE4467	cMhOj091g01a1	10756
SEQUENCE4468	cMhOj112a11a1	10757
SEQUENCE4469	cMhOk065c01a1	10758

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SEQUENCE4470	cMhOk081b11a1	10759
SEQUENCE4471	cMhOk038h07a2	10760
SEQUENCE4472	cMhOk003g01a3	10761
SEQUENCE4473	cMhOk042g03a2	10762
SEQUENCE4474	cMhOg010d12a1	10763
SEQUENCE4475	cMhOg010g06a1	10764
SEQUENCE4476	cMhOg001d11a2	10765
SEQUENCE4477	cMhOg022c11a1	10766
SEQUENCE4478	cMhOg009b01a1	10767
SEQUENCE4479	cMhOg046a11a2	10768
SEQUENCE4480	cMhOg031c03a1	10769
SEQUENCE4481	cMhOg001g11a2	10770
SEQUENCE4482	cMhOg010e05a1	10771
SEQUENCE4483	cMhOg033a08a1	10772
SEQUENCE4484	cMhOg010g11a1	10773
SEQUENCE4485	cMhOg006a01a1	10774
SEQUENCE4486	cMhOg038d02a1	10775
SEQUENCE4487	cMhOg032e01a1	10776
SEQUENCE4488	cMhOg022f08a1	10777
SEQUENCE4490	cMhOg009f04a1	10778
SEQUENCE4491	cMhOg002e03a2	10779
SEQUENCE4492	cMhOg001e08a2	10780
SEQUENCE4493	cMhOg043e01a1	10781
SEQUENCE4494	cMhOg031e05a1	10782
SEQUENCE4495	cMhOg001h10a2	10783
SEQUENCE4496	cMhOg033b06a1	10784
SEQUENCE4497	cMhOg043c02a1	10785
SEQUENCE4498	cMhOg011a06a1	10786
SEQUENCE4499	cMhOg006a05a1	10787
SEQUENCE4500	cMhOg032g12a1	10788
SEQUENCE4501	cMhOg001b05a2	10789
SEQUENCE4502	cMhOg054c06a1	10790
SEQUENCE4503	cMhOg009f03a1	10791
SEQUENCE4504	cMhOg002e12a2	10792
SEQUENCE4505	cMhOg024b06a1	10793
SEQUENCE4506	cMhOg001g05a2	10794
SEQUENCE4507	cMhOg043e08a1	10795
SEQUENCE4508	cMhOg031g04a1	10796
SEQUENCE4509	cMhOg040h09a1	10797
SEQUENCE4510	cMhOg049d12a1	10798
SEQUENCE4512	cMhOg015g09a1	10799
SEQUENCE4513	cMhOg020h11a1	10800
SEQUENCE4514	cMhOg033h01a1	10801
SEQUENCE4515	cMhOg054c07a1	10802
SEQUENCE4516	cMhOg038g12a1	10803
SEQUENCE4517	cMhOg002g04a2	10804
SEQUENCE4518	cMhOg022h01a1	10805
SEQUENCE4519	cMhOg010c06a1	10806
SEQUENCE4520	cMhOg024d07a1	10807
SEQUENCE4521	cMhOg043h11a1	10808
SEQUENCE4522	cMhOg046h10a2	10809
SEQUENCE4523	cMhOg031h08a1	10810
SEQUENCE4524	cMhOg041a03a1	10811

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SEQUENCE4525	cMhOg049g09a1	10812
SEQUENCE4526	cMhOg051g04a1	10813
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SEQUENCE4528	cMhOg015c10a1	10815
SEQUENCE4529	cMhOg005g10a1	10816
SEQUENCE4530	cMhOg020h12a1	10817
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SEQUENCE4532	cMhOg039b12a1	10819
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SEQUENCE4535	cMhOg010d01a1	10822
SEQUENCE4536	cMhOg002c04a2	10823
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SEQUENCE4538	cMhOg044a09a1	10825
SEQUENCE4539	cMhOg048a02a1	10826
SEQUENCE4540	cMhOg050d12a1	10827
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SEQUENCE4549	cMhOg046h04a2	10836
SEQUENCE4550	cMhOg044h12a1	10837
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SEQUENCE4553	cMhOg023a06a1	10840
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SEQUENCE4556	cMhOg044d03a1	10843
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SEQUENCE4565	cMhOg034c04a1	10852
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SEQUENCE4568	cMhOg050h11a1	10855
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SEQUENCE4572	cMhOg050g03a1	10859
SEQUENCE4573	cMhOg003b12a2	10860
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SEQUENCE4576	cMhOg006b05a1	10862
SEQUENCE4577	cMhOg008b10a1	10863
SEQUENCE4578	cMhOg034c06a1	10864

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SEQUENCE4605	cMhOg040h01a1	10890
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SEQUENCE4623	cMhOg003g05a2	10908
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SEQUENCE4626	cMhOg010f05a1	10911
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SEQUENCE4629	cMhOg039h06a1	10914
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SEQUENCE4644	cMhOg052f07a1	10929
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SEQUENCE4681	cMhOh041c02a1	10966
SEQUENCE4682	cMhOh038a04a1	10967
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SEQUENCE4695	cMhOh127d12a2	10980
SEQUENCE4696	cMhOh079c03a1	10981
SEQUENCE4697	cMhOh011e02a1	10982
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SEQUENCE4701	cMhOh088d10a2	10986
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SEQUENCE4708	cMhOh048a03a1	10993
SEQUENCE4709	cMhOh094a10a3	10994
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SEQUENCE4726	cMhOh095e08a2	11010
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SEQUENCE4749	cMhOh123f11a2	11032
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SEQUENCE4752	cMhOh091f07a2	11035
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SEQUENCE4805	cMhOh073a05a3	11088
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SEQUENCE4880	cMhOh089c07a2	11162
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SEQUENCE4889	cMhOh078a05a1	11171
SEQUENCE4890	cMhOh055c02a1	11172
SEQUENCE4891	cMhOh105d10a2	11173
SEQUENCE4892	cMhOh127d01a2	11174
SEQUENCE4893	cMhOh048a02a1	11175
SEQUENCE4895	cMhOh083f10a3	11176
SEQUENCE4896	cMhOh052e05a2	11177
SEQUENCE4897	cMhOh060g09a1	11178
SEQUENCE4898	cMhOh077e07a1	11179
SEQUENCE4899	cMhOh110c09a2	11180
SEQUENCE4900	cMhOh094a02a3	11181
SEQUENCE4901	cMhOh110g01a2	11182

Table 3

SEQUENCE4902	cMhOh072e12a1	11183
SEQUENCE4903	cMhOh115f02a2	11184
SEQUENCE4904	cMhOh048d05a1	11185
SEQUENCE4905	cMhOh001a02a2	11186
SEQUENCE4906	cMhOh093g04a2	11187
SEQUENCE4907	cMhOh015c11a2	11188
SEQUENCE4908	cMhOh105a09a2	11189
SEQUENCE4909	cMhOh074g07a2	11190
SEQUENCE4910	cMhOh013c12a1	11191
SEQUENCE4911	cMhOh123h04a2	11192
SEQUENCE4913	cMhOh045d07a2	11193
SEQUENCE4914	cMhOh080e08a1	11194
SEQUENCE4915	cMhOh040a02a1	11195
SEQUENCE4916	cMhOh030b08a1	11196
SEQUENCE4917	cMhOh074g04a2	11197
SEQUENCE4918	cMhOh095e06a2	11198
SEQUENCE4919	cMhOh015d11a2	11199
SEQUENCE4920	cMhOh012c11a2	11200
SEQUENCE4921	cMhOh128f06a2	11201
SEQUENCE4922	cMhOh116g12a2	11202
SEQUENCE4923	cMhOh005c06a1	11203
SEQUENCE4924	cMhOh011b03a1	11204
SEQUENCE4925	cMhOh080a04a1	11205
SEQUENCE4926	cMhOh054a05a1	11206
SEQUENCE4927	cMhOh118e01a2	11207
SEQUENCE4928	cMhOh088f07a2	11208
SEQUENCE4929	cMhOh023e11a2	11209
SEQUENCE4930	cMhOh077c06a1	11210
SEQUENCE4931	cMhOh039c11a1	11211
SEQUENCE4932	cMhOh106f03a2	11212
SEQUENCE4933	cMhOh110c02a2	11213
SEQUENCE4934	cMhOh064d06a1	11214
SEQUENCE4935	cMhOh072a04a3	11215
SEQUENCE4936	cMhOh073c09a3	11216
SEQUENCE4937	cMhOh082a05a3	11217
SEQUENCE4938	cMhOh011g07a1	11218
SEQUENCE4939	cMhOh108e11a2	11219
SEQUENCE4940	cMhOh093e09a2	11220
SEQUENCE4941	cMhOh012e04a2	11221
SEQUENCE4942	cMhOh048g03a1	11222
SEQUENCE4943	cMhOh051b11a1	11223
SEQUENCE4945	cMhOh022a01a2	11224
SEQUENCE4946	cMhOh008b08a2	11225
SEQUENCE4947	cMhOh044d02a2	11226
SEQUENCE4948	cMhOh034e04a1	11227
SEQUENCE4949	cMhOh078f11a1	11228
SEQUENCE4950	cMhOh126g03a2	11229
SEQUENCE4951	cMhOh129g07a2	11230
SEQUENCE4952	cMhOh092d09a2	11231
SEQUENCE4953	cMhOh073d06a3	11232
SEQUENCE4954	cMhOh049a03a3	11233
SEQUENCE4955	cMhOh002e03a1	11234
SEQUENCE4956	cMhOh017e01a2	11235

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SEQUENCE4957	cMhOh100g04a2	11236
SEQUENCE4958	cMhOh116f10a2	11237
SEQUENCE4959	cMhOh068d01a1	11238
SEQUENCE4960	cMhOh123e03a2	11239
SEQUENCE4961	cMhOh118c06a2	11240
SEQUENCE4962	cMhOh126d07a2	11241
SEQUENCE4963	cMhOh090h01a2	11242
SEQUENCE4964	cMhOh029f10a1	11243
SEQUENCE4965	cMhOh020b12a1	11244
SEQUENCE4966	cMhOh023d11a2	11245
SEQUENCE4967	cMhOh127a02a2	11246
SEQUENCE4968	cMhOh078c09a1	11247
SEQUENCE4969	cMhOh098d01a2	11248
SEQUENCE4970	cMhOh014a08a1	11249
SEQUENCE4971	cMhOh128e06a2	11250
SEQUENCE4972	cMhOh081e03a1	11251
SEQUENCE4973	cMhOh015a11a1	11252
SEQUENCE4974	cMhOh052f01a2	11253
SEQUENCE4975	cMhOh077f01a1	11254
SEQUENCE4976	cMhOh022f06a2	11255
SEQUENCE4977	cMhOh056d10a1	11256
SEQUENCE4978	cMhOh011f05a1	11257
SEQUENCE4979	cMhOh074a06a2	11258
SEQUENCE4980	cMhOh094g09a3	11259
SEQUENCE4981	cMhOh113f02a2	11260
SEQUENCE4982	cMhOh123d04a2	11261
SEQUENCE4983	cMhOh118c03a2	11262
SEQUENCE4984	cMhOh060e03a1	11263
SEQUENCE4985	cMhOh026g10a1	11264
SEQUENCE4986	cMhOh129b09a2	11265
SEQUENCE4987	cMhOh092a06a2	11266
SEQUENCE4988	cMhOh041d09a1	11267
SEQUENCE4989	cMhOh087d08a2	11268
SEQUENCE4990	cMhOh030h11a1	11269
SEQUENCE4991	cMhOh048a08a1	11270
SEQUENCE4992	cMhOh125c02a2	11271
SEQUENCE4993	cMhOh128d07a2	11272
SEQUENCE4994	cMhOh017a06a2	11273
SEQUENCE4996	cMhOh015g09a2	11274
SEQUENCE4997	cMhOh069d02a1	11275
SEQUENCE4998	cMhOh121h01a2	11276
SEQUENCE4999	cMhOh107h12a2	11277
SEQUENCE5000	cMhOh025b10a1	11278
SEQUENCE5001	cMhOh120b05a2	11279
SEQUENCE5002	cMhOh019a02a1	11280
SEQUENCE5003	cMhOh022d06a2	11281
SEQUENCE5004	cMhOh021g07a1	11282
SEQUENCE5005	cMhOh088f01a2	11283
SEQUENCE5006	cMhOh118h08a2	11284
SEQUENCE5007	cMhOh087f08a2	11285
SEQUENCE5008	cMhOh105a11a2	11286
SEQUENCE5009	cMhOh015a03a2	11287
SEQUENCE5010	cMhOh045d11a2	11288

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SEQUENCE5011	cMhOh021e05a1	11289
SEQUENCE5012	cMhOh031g07a2	11290
SEQUENCE5013	cMhOh126h07a2	11291
SEQUENCE5014	cMhOh053d06a1	11292
SEQUENCE5015	cMhOh001h01a2	11293
SEQUENCE5016	cMhOh065h02a1	11294
SEQUENCE5017	cMhOh019e05a1	11295
SEQUENCE5018	cMhOh109e06a2	11296
SEQUENCE5019	cMhOh073d09a3	11297
SEQUENCE5020	cMhOh020e04a1	11298
SEQUENCE5021	cMhOh117e02a3	11299
SEQUENCE5022	cMhOh090a08a2	11300
SEQUENCE5023	cMhOh057g07a1	11301
SEQUENCE5024	cMhOh069a11a1	11302
SEQUENCE5025	cMhOh080h10a1	11303
SEQUENCE5026	cMhOh114d03a2	11304
SEQUENCE5027	cMhOh131a09a3	11305
SEQUENCE5028	cMhOh086e03a2	11306
SEQUENCE5029	cMhOh024b06a1	11307
SEQUENCE5030	cMhOh119h11a2	11308
SEQUENCE5031	cMhOh075b07a2	11309
SEQUENCE5032	cMhOh013d11a2	11310
SEQUENCE5033	cMhOh095f02a2	11311
SEQUENCE5034	cMhOh018e05a1	11312
SEQUENCE5035	cMhOh116d06a2	11313
SEQUENCE5036	cMhOh098d11a2	11314
SEQUENCE5037	cMhOh015f07a1	11315
SEQUENCE5038	cMhOh008g05a2	11316
SEQUENCE5039	cMhOh078b07a1	11317
SEQUENCE5040	cMhOh055e01a1	11318
SEQUENCE5041	cMhOh011c11a1	11319
SEQUENCE5042	cMhOh127d03a2	11320
SEQUENCE5043	cMhOh131c01a3	11321
SEQUENCE5044	cMhOh088c02a2	11322
SEQUENCE5045	cMhOh083g06a3	11323
SEQUENCE5046	cMhOh064a02a1	11324
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SEQUENCE5049	cMhOh072f06a1	11327
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SEQUENCE5052	cMhOh015d05a1	11330
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SEQUENCE5054	cMhOh123h06a2	11332
SEQUENCE5055	cMhOh015h08a2	11333
SEQUENCE5056	cMhOh089d07a2	11334
SEQUENCE5057	cMhOh080f11a1	11335
SEQUENCE5058	cMhOh040f03a1	11336
SEQUENCE5059	cMhOh030c01a1	11337
SEQUENCE5060	cMhOh121b09a2	11338
SEQUENCE5061	cMhOh074g06a2	11339
SEQUENCE5062	cMhOh015d12a2	11340
SEQUENCE5063	cMhOh012d01a2	11341

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SEQUENCE5064	cMhOh117a07a3	11342
SEQUENCE5065	cMhOh077g02a1	11343
SEQUENCE5066	cMhOh005h02a1	11344
SEQUENCE5067	cMhOh011c01a2	11345
SEQUENCE5068	cMhOh118e08a2	11346
SEQUENCE5069	cMhOh088f11a2	11347
SEQUENCE5070	cMhOh023g02a2	11348
SEQUENCE5071	cMhOh039d04a1	11349
SEQUENCE5072	cMhOh113g04a2	11350
SEQUENCE5073	cMhOh110c05a2	11351
SEQUENCE5074	cMhOh079f10a1	11352
SEQUENCE5075	cMhOh073d01a1	11353
SEQUENCE5076	cMhOh082a07a3	11354
SEQUENCE5077	cMhOh011h04a1	11355
SEQUENCE5078	cMhOh127a06a2	11356
SEQUENCE5079	cMhOh012e08a2	11357
SEQUENCE5080	cMhOh128g09a2	11358
SEQUENCE5081	cMhOh051c10a1	11359
SEQUENCE5082	cMhOh022c04a2	11360
SEQUENCE5083	cMhOh041h12a1	11361
SEQUENCE5084	cMhOh057c12a1	11362
SEQUENCE5085	cMhOh045b09a2	11363
SEQUENCE5086	cMhOh034e11a1	11364
SEQUENCE5087	cMhOh078h03a1	11365
SEQUENCE5088	cMhOh129g09a2	11366
SEQUENCE5089	cMhOh092g09a2	11367
SEQUENCE5090	cMhOh110d04a2	11368
SEQUENCE5091	cMhOh013a05a2	11369
SEQUENCE5092	cMhOh003b10a1	11370
SEQUENCE5093	cMhOh017e03a1	11371
SEQUENCE5094	cMhOh115f03a2	11372
SEQUENCE5095	cMhOh116g08a2	11373
SEQUENCE5096	cMhOh068e03a1	11374
SEQUENCE5097	cMhOh123f01a2	11375
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SEQUENCE5099	cMhOh091a01a2	11377
SEQUENCE5100	cMhOh029f12a1	11378
SEQUENCE5101	cMhOh078e01a1	11379
SEQUENCE5102	cMhOh118c04a2	11380
SEQUENCE5103	cMhOh128e07a2	11381
SEQUENCE5104	cMhOh081h08a1	11382
SEQUENCE5105	cMhOh053d08a1	11383
SEQUENCE5106	cMhOh038g05a1	11384
SEQUENCE5107	cMhOh015a11a2	11385
SEQUENCE5108	cMhOh082g12a3	11386
SEQUENCE5109	cMhOh015h03a2	11387
SEQUENCE5110	cMhOh019f10a1	11388
SEQUENCE5111	cMhOh022g02a2	11389
SEQUENCE5112	cMhOh107a07a2	11390
SEQUENCE5113	cMhOh102e12a2	11391
SEQUENCE5114	cMhOh057a06a1	11392
SEQUENCE5115	cMhOh011f06a1	11393
SEQUENCE5116	cMhOh126e11a2	11394

Table 3
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SEQUENCE5117	cMhOh049b12a3	11395
SEQUENCE5118	cMhOh057g08a1	11396
SEQUENCE5119	cMhOh021g12a1	11397
SEQUENCE5120	cMhOh102a01a2	11398
SEQUENCE5121	cMhOh119a12a2	11399
SEQUENCE5122	cMhOh131b07a3	11400
SEQUENCE5123	cMhOh087f11a2	11401
SEQUENCE5124	cMhOh074b07a2	11402
SEQUENCE5125	cMhOh113f08a2	11403
SEQUENCE5127	cMhOh095b11a2	11404
SEQUENCE5128	cMhOh042e08a2	11405
SEQUENCE5129	cMhOh108g11a2	11406
SEQUENCE5130	cMhOh031g08a2	11407
SEQUENCE5131	cMhOh060f06a1	11408
SEQUENCE5132	cMhOh029b08a1	11409
SEQUENCE5133	cMhOh004f03a1	11410
SEQUENCE5134	cMhOh107e07a2	11411
SEQUENCE5135	cMhOh092a09a2	11412
SEQUENCE5136	cMhOh129b10a2	11413
SEQUENCE5137	cMhOh087e09a2	11414
SEQUENCE5138	cMhOh119f02a2	11415
SEQUENCE5139	cMhOh048a09a1	11416
SEQUENCE5140	cMhOh125f06a2	11417
SEQUENCE5141	cMhOh128e02a2	11418
SEQUENCE5142	cMhOh017a07a2	11419
SEQUENCE5143	cMhOh100a07a2	11420
SEQUENCE5144	cMhOh090e02a2	11421
SEQUENCE5145	cMhOh069d09a1	11422
SEQUENCE5146	cMhOh122a05a2	11423
SEQUENCE5147	cMhOh108c09a2	11424
SEQUENCE5148	cMhOh072g05a3	11425
SEQUENCE5149	cMhOh026b12a1	11426
SEQUENCE5150	cMhOh120c03a2	11427
SEQUENCE5151	cMhOh098b03a2	11428
SEQUENCE5152	cMhOh019a02a2	11429
SEQUENCE5153	cMhOh106f08a2	11430
SEQUENCE5154	cMhOh105b06a2	11431
SEQUENCE5155	cMhOh015a07a1	11432
SEQUENCE5156	cMhOh045e06a2	11433
SEQUENCE5157	cMhOh008g09a2	11434
SEQUENCE5158	cMhOh055f02a1	11435
SEQUENCE5159	cMhOh042b05a2	11436
SEQUENCE5160	cMhOh076e11a1	11437
SEQUENCE5162	cMhOh109h01a2	11438
SEQUENCE5163	cMhOh073e04a1	11439
SEQUENCE5164	cMhOh020e06a1	11440
SEQUENCE5165	cMhOh117e06a3	11441
SEQUENCE5166	cMhOh090c06a2	11442
SEQUENCE5167	cMhOh081a08a1	11443
SEQUENCE5168	cMhOh114e09a2	11444
SEQUENCE5170	cMhOh086e09a2	11445
SEQUENCE5171	cMhOh082c09a3	11446
SEQUENCE5172	cMhOh024c06a1	11447

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SEQUENCE5173	cMhOh075e11a2	11448
SEQUENCE5174	cMhOh013e06a1	11449
SEQUENCE5175	cMhOh095g06a2	11450
SEQUENCE5176	cMhOh124f08a2	11451
SEQUENCE5177	cMhOh116f01a2	11452
SEQUENCE5178	cMhOh098e02a2	11453
SEQUENCE5179	cMhOh015f08a1	11454
SEQUENCE5180	cMhOh127d05a2	11455
SEQUENCE5181	cMhOh079b07a1	11456
SEQUENCE5182	cMhOh011d04a1	11457
SEQUENCE5183	cMhOh121c02a2	11458
SEQUENCE5184	cMhOh131c12a3	11459
SEQUENCE5185	cMhOh088c08a2	11460
SEQUENCE5186	cMhOh083h05a3	11461
SEQUENCE5187	cMhOh064b04a1	11462
SEQUENCE5189	cMhOh048e12a1	11463
SEQUENCE5190	cMhOh014d12a1	11464
SEQUENCE5191	cMhOh022d07a2	11465
SEQUENCE5192	cMhOh016c10a1	11466
SEQUENCE5193	cMhOh089f03a2	11467
SEQUENCE5194	cMhOh057e11a1	11468
SEQUENCE5195	cMhOh128g12a2	11469
SEQUENCE5196	cMhOh080f12a1	11470
SEQUENCE5197	cMhOh041a10a1	11471
SEQUENCE5198	cMhOh035e09a1	11472
SEQUENCE5199	cMhOh030e02a1	11473
SEQUENCE5200	cMhOh115b10a2	11474
SEQUENCE5201	cMhOh087f04a2	11475
SEQUENCE5203	cMhOh117a08a3	11476
SEQUENCE5204	cMhOh128g03a2	11477
SEQUENCE5205	cMhOh068g05a1	11478
SEQUENCE5206	cMhOh006a04a1	11479
SEQUENCE5207	cMhOh011c05a1	11480
SEQUENCE5208	cMhOh118e10a2	11481
SEQUENCE5209	cMhOh089a06a2	11482
SEQUENCE5210	cMhOh023h10a2	11483
SEQUENCE5211	cMhOh110e03a2	11484
SEQUENCE5212	cMhOh113h04a2	11485
SEQUENCE5213	cMhOh127b04a2	11486
SEQUENCE5214	cMhOh011h05a1	11487
SEQUENCE5215	cMhOh014a12a2	11488
SEQUENCE5216	cMhOh012g03a2	11489
SEQUENCE5217	cMhOh045f08a2	11490
SEQUENCE5218	cMhOh051f12a1	11491
SEQUENCE5219	cMhOh083e02a3	11492
SEQUENCE5220	cMhOh060f07a1	11493
SEQUENCE5221	cMhOh057e04a1	11494
SEQUENCE5222	cMhOh015b04a2	11495
SEQUENCE5223	cMhOh129g10a2	11496
SEQUENCE5224	cMhOh114g01a2	11497
SEQUENCE5225	cMhOh102f05a2	11498
SEQUENCE5226	cMhOh122e01a2	11499
SEQUENCE5227	cMhOh013a08a1	11500

Table 3

SEQUENCE5228	cMhOh003d07a1	11501
SEQUENCE5229	cMhOh017e09a2	11502
SEQUENCE5230	cMhOh115f09a2	11503
SEQUENCE5231	cMhOh123f08a2	11504
SEQUENCE5232	cMhOh059a09a2	11505
SEQUENCE5233	cMhOh068e08a1	11506
SEQUENCE5234	cMhOh091b04a2	11507
SEQUENCE5235	cMhOh029g09a1	11508
SEQUENCE5236	cMhOh095c01a2	11509
SEQUENCE5237	cMhOh127f09a2	11510
SEQUENCE5238	cMhOh128e09a2	11511
SEQUENCE5239	cMhOh004f09a1	11512
SEQUENCE5240	cMhOh053e03a1	11513
SEQUENCE5241	cMhOh038g06a1	11514
SEQUENCE5242	cMhOh082h03a3	11515
SEQUENCE5243	cMhOh019g09a2	11516
SEQUENCE5244	cMhOh094d12a3	11517
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SEQUENCE5248	cMhOh057a12a1	11521
SEQUENCE5249	cMhOh011g06a1	11522
SEQUENCE5250	cMhOh049f08a3	11523
SEQUENCE5251	cMhOh039e05a1	11524
SEQUENCE5252	cMhOh021h02a1	11525
SEQUENCE5253	cMhOh102a10a2	11526
SEQUENCE5254	cMhOh119d09a2	11527
SEQUENCE5255	cMhOh131b11a3	11528
SEQUENCE5256	cMhOh074c09a2	11529
SEQUENCE5257	cMhOh065b06a1	11530
SEQUENCE5258	cMhOh042g04a2	11531
SEQUENCE5259	cMhOh108h06a2	11532
SEQUENCE5260	cMhOh031h12a2	11533
SEQUENCE5261	cMhOh078e10a1	11534
SEQUENCE5262	cMhOh129c06a2	11535
SEQUENCE5263	cMhOh092a12a2	11536
SEQUENCE5264	cMhOh048a10a1	11537
SEQUENCE5265	cMhOh048h08a1	11538
SEQUENCE5266	cMhOh002b11a1	11539
SEQUENCE5267	cMhOh017b12a1	11540
SEQUENCE5268	cMhOh100b03a2	11541
SEQUENCE5269	cMhOh126b11a2	11542
SEQUENCE5270	cMhOh068a11a1	11543
SEQUENCE5271	cMhOh004d09a1	11544
SEQUENCE5272	cMhOh090e07a2	11545
SEQUENCE5273	cMhOh034f06a1	11546
SEQUENCE5274	cMhOh079a03a1	11547
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SEQUENCE5276	cMhOh023b08a2	11549
SEQUENCE5277	cMhOh108d03a2	11550
SEQUENCE5278	cMhOh038g04a1	11551
SEQUENCE5279	cMhOh072h04a1	11552
SEQUENCE5280	cMhOh082f02a3	11553

Table 3

SEQUENCE5281	cMhOh093a05a2	11554
SEQUENCE5282	cMhOh098c01a2	11555
SEQUENCE5283	cMhOh076c07a1	11556
SEQUENCE5284	cMhOh014a02a2	11557
SEQUENCE5285	cMhOh080c01a1	11558
SEQUENCE5286	cMhOh120d02a2	11559
SEQUENCE5287	cMhOh106h03a2	11560
SEQUENCE5288	cMhOh105b07a2	11561
SEQUENCE5289	cMhOh015a07a2	11562
SEQUENCE5290	cMhOh131g12a3	11563
SEQUENCE5291	cMhOh009g06a1	11564
SEQUENCE5292	cMhOh056b09a1	11565
SEQUENCE5293	cMhOh042b08a2	11566
SEQUENCE5294	cMhOh119g08a2	11567
SEQUENCE5295	cMhOh076h08a1	11568
SEQUENCE5296	cMhOh014a09a1	11569
SEQUENCE5297	cMhOh110a09a2	11570
SEQUENCE5298	cMhOh110e07a2	11571
SEQUENCE5299	cMhOh073g06a3	11572
SEQUENCE5300	cMhOh020g04a1	11573
SEQUENCE5301	cMhOh048f05a1	11574
SEQUENCE5302	cMhOh003d12a1	11575
SEQUENCE5303	cMhOh117f10a3	11576
SEQUENCE5304	cMhOi042h10a1	11577
SEQUENCE5305	cMhOi031f10a1	11578
SEQUENCE5306	cMhOi031e03a1	11579
SEQUENCE5307	cMhOi068f10a1	11580
SEQUENCE5308	cMhOi013g06a1	11581
SEQUENCE5309	cMhOi074h04a1	11582
SEQUENCE5310	cMhOi075e09a2	11583
SEQUENCE5311	cMhOi034a09a1	11584
SEQUENCE5312	cMhOi075d12a2	11585
SEQUENCE5313	cMhOi013e06a1	11586
SEQUENCE5314	cMhOi074e05a1	11587
SEQUENCE5315	cMhOi025g11a2	11588
SEQUENCE5316	cMhOi033g04a1	11589
SEQUENCE5317	cMhOi008d02a1	11590
SEQUENCE5318	cMhOi025e07a2	11591
SEQUENCE5319	cMhOi011b02a1	11592
SEQUENCE5320	cMhOi039d02a2	11593
SEQUENCE5321	cMhOi033f03a1	11594
SEQUENCE5322	cMhOi043f09a3	11595
SEQUENCE5323	cMhOi033b11a1	11596
SEQUENCE5324	cMhOi039c08a2	11597
SEQUENCE5325	cMhOi038e11a2	11598
SEQUENCE5326	cMhOi032b07a1	11599
SEQUENCE5327	cMhOi036g06a2	11600
SEQUENCE5328	cMhOi038c12a2	11601
SEQUENCE5329	cMhOi027h05a1	11602
SEQUENCE5330	cMhOi037b07a1	11603
SEQUENCE5331	cMhOi079c01a1	11604
SEQUENCE5332	cMhOi027g06a1	11605
SEQUENCE5333	cMhOi045b04a1	11606

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SEQUENCE5334	cMhOi074h09a1	11607
SEQUENCE5335	cMhOi026c10a1	11608
SEQUENCE5336	cMhOi044h01a1	11609
SEQUENCE5337	cMhOi007a04a1	11610
SEQUENCE5338	cMhOi021e01a1	11611
SEQUENCE5339	cMhOi069c09a1	11612
SEQUENCE5340	cMhOi044g04a1	11613
SEQUENCE5341	cMhOi069e12a1	11614
SEQUENCE5342	cMhOi014e07a1	11615
SEQUENCE5343	cMhOi044f04a1	11616
SEQUENCE5344	cMhOi080a05a1	11617
SEQUENCE5345	cMhOi003e06a1	11618
SEQUENCE5346	cMhOi035h10a1	11619
SEQUENCE5347	cMhOi001b02a1	11620
SEQUENCE5348	cMhOi014d10a1	11621
SEQUENCE5349	cMhOi069c07a1	11622
SEQUENCE5350	cMhOi078c09a1	11623
SEQUENCE5351	cMhOi079f05a1	11624
SEQUENCE5352	cMhOi081g12a1	11625
SEQUENCE5353	cMhOi035f02a1	11626
SEQUENCE5354	cMhOi077g07a1	11627
SEQUENCE5355	cMhOi014d07a1	11628
SEQUENCE5356	cMhOi034h03a1	11629
SEQUENCE5357	cMhOi077d01a1	11630
SEQUENCE5358	cMhOi014b11a1	11631
SEQUENCE5359	cMhOi045d11a1	11632
SEQUENCE5360	cMhOi008b05a1	11633
SEQUENCE5361	cMhOi022e11a2	11634
SEQUENCE5362	cMhOi034d01a1	11635
SEQUENCE5363	cMhOi009b03a1	11636
SEQUENCE5364	cMhOi045d08a1	11637
SEQUENCE5365	cMhOi075e10a2	11638
SEQUENCE5366	cMhOi060a09a2	11639
SEQUENCE5367	cMhOi070b10a1	11640
SEQUENCE5368	cMhOi043e10a3	11641
SEQUENCE5369	cMhOi008f10a1	11642
SEQUENCE5370	cMhOi045b08a1	11643
SEQUENCE5371	cMhOi039g01a2	11644
SEQUENCE5372	cMhOi056f08a1	11645
SEQUENCE5373	cMhOi070a12a1	11646
SEQUENCE5374	cMhOi008e05a1	11647
SEQUENCE5375	cMhOi039d04a2	11648
SEQUENCE5376	cMhOi056d06a1	11649
SEQUENCE5377	cMhOi036c06a2	11650
SEQUENCE5378	cMhOi069h03a1	11651
SEQUENCE5379	cMhOi056b02a1	11652
SEQUENCE5380	cMhOi036b06a2	11653
SEQUENCE5381	cMhOi029h06a1	11654
SEQUENCE5382	cMhOi046e07a1	11655
SEQUENCE5383	cMhOi079c08a1	11656
SEQUENCE5384	cMhOi036b02a2	11657
SEQUENCE5385	cMhOi028f12a1	11658
SEQUENCE5386	cMhOi045h09a1	11659

Table 3

SEQUENCE5387	cMhOi073d06a1	11660
SEQUENCE5388	cMhOi020b12a1	11661
SEQUENCE5389	cMhOi045g07a1	11662
SEQUENCE5390	cMhOi019g03a1	11663
SEQUENCE5391	cMhOi005h07a1	11664
SEQUENCE5392	cMhOi069c11a1	11665
SEQUENCE5393	cMhOi005b05a1	11666
SEQUENCE5394	cMhOi054a02a1	11667
SEQUENCE5395	cMhOi003d07a1	11668
SEQUENCE5396	cMhOi079a11a1	11669
SEQUENCE5397	cMhOi004e08a1	11670
SEQUENCE5398	cMhOi049f03a1	11671
SEQUENCE5399	cMhOi002d03a1	11672
SEQUENCE5400	cMhOi078h12a1	11673
SEQUENCE5401	cMhOi004a03a1	11674
SEQUENCE5402	cMhOi049d02a1	11675
SEQUENCE5403	cMhOi001f01a1	11676
SEQUENCE5404	cMhOi001a03a1	11677
SEQUENCE5405	cMhOi078h03a1	11678
SEQUENCE5406	cMhOi003f04a1	11679
SEQUENCE5407	cMhOi023f04a2	11680
SEQUENCE5408	cMhOi001b03a1	11681
SEQUENCE5409	cMhOi047b11a3	11682
SEQUENCE5410	cMhOi010f01a1	11683
SEQUENCE5411	cMhOi072a08a1	11684
SEQUENCE5412	cMhOi078d07a1	11685
SEQUENCE5413	cMhOi007h07a1	11686
SEQUENCE5414	cMhOi023e01a2	11687
SEQUENCE5415	cMhOi044c12a1	11688
SEQUENCE5416	cMhOi046g04a1	11689
SEQUENCE5417	cMhOi010c08a1	11690
SEQUENCE5418	cMhOi017d09a1	11691
SEQUENCE5419	cMhOi071g05a1	11692
SEQUENCE5420	cMhOi007c08a1	11693
SEQUENCE5421	cMhOi023a11a2	11694
SEQUENCE5422	cMhOi071b10a1	11695
SEQUENCE5423	cMhOi010a05a1	11696
SEQUENCE5424	cMhOi080e08a1	11697
SEQUENCE5425	cMhOi015c08a1	11698
SEQUENCE5426	cMhOi008b07a1	11699
SEQUENCE5427	cMhOi070g12a1	11700
SEQUENCE5428	cMhOi022f03a2	11701
SEQUENCE5429	cMhOi080b04a1	11702
SEQUENCE5430	cMhOi014g01a1	11703
SEQUENCE5431	cMhOi080a09a1	11704
SEQUENCE5432	cMhOi060c04a2	11705
SEQUENCE5433	cMhOi013d09a1	11706
SEQUENCE5434	cMhOi040h12a2	11707
SEQUENCE5435	cMhOi024e07a2	11708
SEQUENCE5436	cMhOi009g03a1	11709
SEQUENCE5437	cMhOi040c07a2	11710
SEQUENCE5438	cMhOi042c10a1	11711
SEQUENCE5439	cMhOi081c11a1	11712

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SEQUENCE5440	cMhOi024a05a2	11713
SEQUENCE5441	cMhOi040b06a2	11714
SEQUENCE5442	cMhOi080g09a1	11715
SEQUENCE5443	cMhOi030g11a1	11716
SEQUENCE5444	cMhOi068c03a1	11717
SEQUENCE5445	cMhOi080f10a1	11718
SEQUENCE5446	cMhOi055h03a1	11719
SEQUENCE5447	cMhOi030e07a1	11720
SEQUENCE5448	cMhOi007a01a1	11721
SEQUENCE5449	cMhOi067h05a1	11722
SEQUENCE5450	cMhOi080f01a1	11723
SEQUENCE5451	cMhOi055f04a1	11724
SEQUENCE5452	cMhOi030d05a1	11725
SEQUENCE5453	cMhOi054f03a1	11726
SEQUENCE5454	cMhOi060g05a2	11727
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SEQUENCE5456	cMhOi030a04a1	11729
SEQUENCE5457	cMhOi054b06a1	11730
SEQUENCE5458	cMhOi001a05a1	11731
SEQUENCE5459	cMhOi074a09a1	11732
SEQUENCE5460	cMhOi025h07a2	11733
SEQUENCE5461	cMhOi041f04a2	11734
SEQUENCE5462	cMhOi025d11a2	11735
SEQUENCE5463	cMhOi041b01a2	11736
SEQUENCE5464	cMhOi019c06a1	11737
SEQUENCE5465	cMhOi009g04a1	11738
SEQUENCE5466	cMhOi044a10a1	11739
SEQUENCE5467	cMhOi017g03a1	11740
SEQUENCE5468	cMhOi003e04a1	11741
SEQUENCE5469	cMhOi017d10a1	11742
SEQUENCE5470	cMhOi073c01a1	11743
SEQUENCE5471	cMhOi012h10a1	11744
SEQUENCE5472	cMhOi010g07a1	11745
SEQUENCE5473	cMhOi073b01a1	11746
SEQUENCE5474	cMhOi001a04a1	11747
SEQUENCE5475	cMhOi012c05a1	11748
SEQUENCE5476	cMhOi031h06a1	11749
SEQUENCE5477	cMhOi043d11a3	11750
SEQUENCE5478	cMhOi041h05a2	11751
SEQUENCE5479	cMhOi031g03a1	11752
SEQUENCE5480	cMhOi060h06a2	11753
SEQUENCE5481	cMhOi001b11a1	11754
SEQUENCE5482	cMhOi031f01a1	11755
SEQUENCE5483	cMhOi068g01a1	11756
SEQUENCE5484	cMhOi014a06a1	11757
SEQUENCE5485	cMhOi034b01a1	11758
SEQUENCE5486	cMhOi075e02a2	11759
SEQUENCE5487	cMhOi013f02a1	11760
SEQUENCE5488	cMhOi074f02a1	11761
SEQUENCE5489	cMhOi034a07a1	11762
SEQUENCE5490	cMhOi013e04a1	11763
SEQUENCE5491	cMhOi025e12a2	11764
SEQUENCE5492	cMhOi033g03a1	11765

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SEQUENCE5493	cMhOi039d01a2	11766
SEQUENCE5494	cMhOi033d04a1	11767
SEQUENCE5495	cMhOi038f12a2	11768
SEQUENCE5496	cMhOi032c02a1	11769
SEQUENCE5497	cMhOi044c02a1	11770
SEQUENCE5498	cMhOi036g08a2	11771
SEQUENCE5499	cMhOi038e01a2	11772
SEQUENCE5500	cMhOi077h10a1	11773
SEQUENCE5501	cMhOi036d12a2	11774
SEQUENCE5502	cMhOi037e08a1	11775
SEQUENCE5503	cMhOi073c03a1	11776
SEQUENCE5504	cMhOi027g08a1	11777
SEQUENCE5505	cMhOi037a02a1	11778
SEQUENCE5506	cMhOi075b02a2	11779
SEQUENCE5507	cMhOi026e05a1	11780
SEQUENCE5508	cMhOi045a01a1	11781
SEQUENCE5509	cMhOi044g10a1	11782
SEQUENCE5510	cMhOi069g01a1	11783
SEQUENCE5511	cMhOi044f11a1	11784
SEQUENCE5512	cMhOi042a10a1	11785
SEQUENCE5513	cMhOi014e01a1	11786
SEQUENCE5514	cMhOi044e01a1	11787
SEQUENCE5515	cMhOi079f08a1	11788
SEQUENCE5516	cMhOi068g06a1	11789
SEQUENCE5517	cMhOi035h03a1	11790
SEQUENCE5518	cMhOi078c06a1	11791
SEQUENCE5519	cMhOi014d08a1	11792
SEQUENCE5520	cMhOi079d05a1	11793
SEQUENCE5521	cMhOi035d01a1	11794
SEQUENCE5522	cMhOi077d12a1	11795
SEQUENCE5523	cMhOi014c08a1	11796
SEQUENCE5524	cMhOi045f05a1	11797
SEQUENCE5525	cMhOi078a12a1	11798
SEQUENCE5526	cMhOi034d09a1	11799
SEQUENCE5527	cMhOi075g03a2	11800
SEQUENCE5528	cMhOi014b10a1	11801
SEQUENCE5529	cMhOi009c09a1	11802
SEQUENCE5530	cMhOi008b04a1	11803
SEQUENCE5531	cMhOi045d09a1	11804
SEQUENCE5532	cMhOi070b11a1	11805
SEQUENCE5533	cMhOi022b12a2	11806
SEQUENCE5534	cMhOi034c05a1	11807
SEQUENCE5535	cMhOi009a08a1	11808
SEQUENCE5536	cMhOi045c05a1	11809
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SEQUENCE5538	cMhOi056h02a1	11811
SEQUENCE5539	cMhOi070b09a1	11812
SEQUENCE5540	cMhOi008f01a1	11813
SEQUENCE5541	cMhOi039e06a2	11814
SEQUENCE5542	cMhOi056e11a1	11815
SEQUENCE5543	cMhOi070a01a1	11816
SEQUENCE5544	cMhOi056c07a1	11817
SEQUENCE5545	cMhOi036b07a2	11818

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SEQUENCE5546	cMhOi069h01a1	11819
SEQUENCE5547	cMhOi036b03a2	11820
SEQUENCE5548	cMhOi029e08a1	11821
SEQUENCE5549	cMhOi046c10a1	11822
SEQUENCE5550	cMhOi028c04a1	11823
SEQUENCE5551	cMhOi021d03a1	11824
SEQUENCE5552	cMhOi045g11a1	11825
SEQUENCE5553	cMhOi073d03a1	11826
SEQUENCE5554	cMhOi019g05a1	11827
SEQUENCE5555	cMhOi006d09a1	11828
SEQUENCE5556	cMhOi045g05a1	11829
SEQUENCE5557	cMhOi069e03a1	11830
SEQUENCE5558	cMhOi005g09a1	11831
SEQUENCE5559	cMhOi060e05a2	11832
SEQUENCE5560	cMhOi004f02a1	11833
SEQUENCE5561	cMhOi049g10a1	11834
SEQUENCE5562	cMhOi002f05a1	11835
SEQUENCE5563	cMhOi079a04a1	11836
SEQUENCE5564	cMhOi004a10a1	11837
SEQUENCE5565	cMhOi049e06a1	11838
SEQUENCE5566	cMhOi001g12a1	11839
SEQUENCE5567	cMhOi078h05a1	11840
SEQUENCE5568	cMhOi003g11a1	11841
SEQUENCE5569	cMhOi023f09a2	11842
SEQUENCE5570	cMhOi047e07a3	11843
SEQUENCE5571	cMhOi072b03a1	11844
SEQUENCE5572	cMhOi078g09a1	11845
SEQUENCE5573	cMhOi007h11a1	11846
SEQUENCE5574	cMhOi023e05a2	11847
SEQUENCE5575	cMhOi047a09a3	11848
SEQUENCE5576	cMhOi021e06a1	11849
SEQUENCE5577	cMhOi010c11a1	11850
SEQUENCE5578	cMhOi071h02a1	11851
SEQUENCE5579	cMhOi007h05a1	11852
SEQUENCE5580	cMhOi023c01a2	11853
SEQUENCE5581	cMhOi071f06a1	11854
SEQUENCE5582	cMhOi010b09a1	11855
SEQUENCE5583	cMhOi017d04a1	11856
SEQUENCE5584	cMhOi080b12a1	11857
SEQUENCE5585	cMhOi071b03a1	11858
SEQUENCE5586	cMhOi022h09a2	11859
SEQUENCE5587	cMhOi019d03a1	11860
SEQUENCE5588	cMhOi014g02a1	11861
SEQUENCE5589	cMhOi080a12a1	11862
SEQUENCE5590	cMhOi060g12a2	11863
SEQUENCE5591	cMhOi054h03a1	11864
SEQUENCE5592	cMhOi070d10a1	11865
SEQUENCE5593	cMhOi024h02a2	11866
SEQUENCE5594	cMhOi013b12a1	11867
SEQUENCE5595	cMhOi040e12a2	11868
SEQUENCE5596	cMhOi042d09a1	11869
SEQUENCE5597	cMhOi024c08a2	11870
SEQUENCE5598	cMhOi040b12a2	11871

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SEQUENCE5599	cMhOi081a03a1	11872
SEQUENCE5600	cMhOi023h04a2	11873
SEQUENCE5601	cMhOi031c07a1	11874
SEQUENCE5602	cMhOi068f03a1	11875
SEQUENCE5603	cMhOi040a06a2	11876
SEQUENCE5604	cMhOi080f12a1	11877
SEQUENCE5605	cMhOi030g02a1	11878
SEQUENCE5606	cMhOi068b10a1	11879
SEQUENCE5607	cMhOi080f03a1	11880
SEQUENCE5608	cMhOi055g08a1	11881
SEQUENCE5609	cMhOi030d11a1	11882
SEQUENCE5610	cMhOi006d10a1	11883
SEQUENCE5611	cMhOi067d08a1	11884
SEQUENCE5612	cMhOi001c06a1	11885
SEQUENCE5613	cMhOi055e08a1	11886
SEQUENCE5614	cMhOi030b03a1	11887
SEQUENCE5615	cMhOi054b08a1	11888
SEQUENCE5616	cMhOi074b08a1	11889
SEQUENCE5617	cMhOi054h08a1	11890
SEQUENCE5618	cMhOi026a03a1	11891
SEQUENCE5619	cMhOi073f07a1	11892
SEQUENCE5620	cMhOi025e05a2	11893
SEQUENCE5621	cMhOi031h11a1	11894
SEQUENCE5622	cMhOi041c05a2	11895
SEQUENCE5623	cMhOi009h05a1	11896
SEQUENCE5624	cMhOi025b11a2	11897
SEQUENCE5625	cMhOi019a03a1	11898
SEQUENCE5626	cMhOi079b07a1	11899
SEQUENCE5627	cMhOi021f03a1	11900
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SEQUENCE5629	cMhOi036g11a2	11902
SEQUENCE5630	cMhOi010g10a1	11903
SEQUENCE5631	cMhOi073b04a1	11904
SEQUENCE5632	cMhOi012g10a1	11905
SEQUENCE5633	cMhOi001b04a1	11906
SEQUENCE5634	cMhOi010f03a1	11907
SEQUENCE5635	cMhOi072c11a1	11908
SEQUENCE5636	cMhOi008a02a1	11909
SEQUENCE5638	cMhOj054c03a1	11910
SEQUENCE5639	cMhOj058d11a1	11911
SEQUENCE5640	cMhOj096c02a1	11912
SEQUENCE5641	cMhOj091b04a1	11913
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SEQUENCE5643	cMhOj034g10a1	11915
SEQUENCE5644	cMhOj100g07a1	11916
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SEQUENCE5646	cMhOj071g01a1	11918
SEQUENCE5647	cMhOj104f09a1	11919
SEQUENCE5648	cMhOj072a11a1	11920
SEQUENCE5649	cMhOj066f12a1	11921
SEQUENCE5650	cMhOj109b11a1	11922
SEQUENCE5651	cMhOj053h09a1	11923
SEQUENCE5652	cMhOj087e05a1	11924

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SEQUENCE5653	cMhOj102h02a1	11925
SEQUENCE5654	cMhOj061c10a1	11926
SEQUENCE5655	cMhOj057b09a1	11927
SEQUENCE5656	cMhOj091e11a1	11928
SEQUENCE5657	cMhOj102d11a1	11929
SEQUENCE5658	cMhOj108h11a1	11930
SEQUENCE5659	cMhOj079d03a1	11931
SEQUENCE5660	cMhOj098d04a1	11932
SEQUENCE5661	cMhOj107a10a1	11933
SEQUENCE5663	cMhOj052d11a1	11934
SEQUENCE5664	cMhOj037g04a1	11935
SEQUENCE5665	cMhOj094e09a1	11936
SEQUENCE5666	cMhOj084d09a1	11937
SEQUENCE5667	cMhOj056h03a1	11938
SEQUENCE5668	cMhOj077c05a1	11939
SEQUENCE5669	cMhOj087f01a1	11940
SEQUENCE5670	cMhOj076c05a1	11941
SEQUENCE5671	cMhOj062h04a1	11942
SEQUENCE5672	cMhOj094b01a1	11943
SEQUENCE5673	cMhOj036b11a1	11944
SEQUENCE5674	cMhOj045b10a1	11945
SEQUENCE5676	cMhOj098e11a1	11946
SEQUENCE5677	cMhOj073h03a1	11947
SEQUENCE5678	cMhOj060e01a1	11948
SEQUENCE5679	cMhOj007d04a2	11949
SEQUENCE5680	cMhOj093h08a1	11950
SEQUENCE5681	cMhOj095b12a1	11951
SEQUENCE5682	cMhOj059a10a1	11952
SEQUENCE5683	cMhOj034c07a1	11953
SEQUENCE5684	cMhOj057a07a1	11954
SEQUENCE5685	cMhOj013f11a1	11955
SEQUENCE5686	cMhOj071d07a1	11956
SEQUENCE5687	cMhOj110e10a1	11957
SEQUENCE5688	cMhOj068b11a1	11958
SEQUENCE5689	cMhOj064h11a1	11959
SEQUENCE5690	cMhOj053f04a1	11960
SEQUENCE5691	cMhOj038h03a1	11961
SEQUENCE5692	cMhOj076h08a1	11962
SEQUENCE5693	cMhOj017e05a1	11963
SEQUENCE5694	cMhOj098b03a1	11964
SEQUENCE5695	cMhOj043c04a1	11965
SEQUENCE5696	cMhOj093e11a1	11966
SEQUENCE5697	cMhOj111c04a1	11967
SEQUENCE5698	cMhOj092g10a1	11968
SEQUENCE5699	cMhOj049c05a1	11969
SEQUENCE5700	cMhOj107h05a1	11970
SEQUENCE5701	cMhOj017h06a1	11971
SEQUENCE5702	cMhOj063g09a1	11972
SEQUENCE5703	cMhOj105e11a1	11973
SEQUENCE5704	cMhOj084a03a1	11974
SEQUENCE5705	cMhOj060d04a1	11975
SEQUENCE5706	cMhOj085h08a1	11976
SEQUENCE5707	cMhOj060g12a1	11977

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SEQUENCE5708	cMhOj090a09a1	11978
SEQUENCE5709	cMhOj058g01a1	11979
SEQUENCE5710	cMhOj096e05a1	11980
SEQUENCE5711	cMhOj018e08a1	11981
SEQUENCE5712	cMhOj042c05a1	11982
SEQUENCE5713	cMhOj034h05a1	11983
SEQUENCE5714	cMhOj074e09a1	11984
SEQUENCE5715	cMhOj064d09a1	11985
SEQUENCE5716	cMhOj072b11a1	11986
SEQUENCE5717	cMhOj047b09a1	11987
SEQUENCE5718	cMhOj058d01a1	11988
SEQUENCE5719	cMhOj075e01a1	11989
SEQUENCE5720	cMhOj078f12a1	11990
SEQUENCE5721	cMhOj023c10a1	11991
SEQUENCE5722	cMhOj043c01a1	11992
SEQUENCE5723	cMhOj051b02a1	11993
SEQUENCE5724	cMhOj067h11a1	11994
SEQUENCE5725	cMhOj052g09a1	11995
SEQUENCE5726	cMhOj046e05a1	11996
SEQUENCE5727	cMhOj036f06a1	11997
SEQUENCE5728	cMhOj054h12a1	11998
SEQUENCE5729	cMhOj093b04a1	11999
SEQUENCE5730	cMhOj022g07a1	12000
SEQUENCE5732	cMhOj048e02a1	12001
SEQUENCE5733	cMhOj049e10a1	12002
SEQUENCE5734	cMhOj007g01a1	12003
SEQUENCE5735	cMhOj080b10a1	12004
SEQUENCE5736	cMhOj071a08a1	12005
SEQUENCE5737	cMhOj083d05a1	12006
SEQUENCE5738	cMhOj059h03a1	12007
SEQUENCE5739	cMhOj061d11a1	12008
SEQUENCE5740	cMhOj045f08a1	12009
SEQUENCE5741	cMhOj060b03a1	12010
SEQUENCE5742	cMhOj048a08a1	12011
SEQUENCE5743	cMhOj075d08a1	12012
SEQUENCE5744	cMhOj088f02a1	12013
SEQUENCE5745	cMhOj054d05a1	12014
SEQUENCE5746	cMhOj096h01a1	12015
SEQUENCE5747	cMhOj042h11a1	12016
SEQUENCE5748	cMhOj062f09a1	12017
SEQUENCE5749	cMhOj099d10a1	12018
SEQUENCE5750	cMhOj079d05a1	12019
SEQUENCE5751	cMhOj096f09a1	12020
SEQUENCE5752	cMhOj100d08a1	12021
SEQUENCE5753	cMhOj070f02a1	12022
SEQUENCE5754	cMhOj087g11a1	12023
SEQUENCE5755	cMhOj071g08a1	12024
SEQUENCE5756	cMhOj063b10a1	12025
SEQUENCE5757	cMhOj038g01a1	12026
SEQUENCE5758	cMhOj081f03a1	12027
SEQUENCE5759	cMhOj085d10a1	12028
SEQUENCE5760	cMhOj113c05a1	12029
SEQUENCE5761	cMhOj043g06a1	12030

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SEQUENCE5762	cMhOj018f11a1	12031
SEQUENCE5763	cMhOj102f04a1	12032
SEQUENCE5764	cMhOj041e02a1	12033
SEQUENCE5765	cMhOj054c04a1	12034
SEQUENCE5766	cMhOj090c11a1	12035
SEQUENCE5767	cMhOj091d07a1	12036
SEQUENCE5768	cMhOj059d02a1	12037
SEQUENCE5769	cMhOj100h03a1	12038
SEQUENCE5770	cMhOj112g04a1	12039
SEQUENCE5771	cMhOj067c02a1	12040
SEQUENCE5772	cMhOj109c01a1	12041
SEQUENCE5773	cMhOj046f08a1	12042
SEQUENCE5774	cMhOj054a03a1	12043
SEQUENCE5775	cMhOj087e12a1	12044
SEQUENCE5776	cMhOj104a06a1	12045
SEQUENCE5777	cMhOj057c09a1	12046
SEQUENCE5778	cMhOj098g05a1	12047
SEQUENCE5779	cMhOj091h06a1	12048
SEQUENCE5780	cMhOj109a03a1	12049
SEQUENCE5781	cMhOj010d11a1	12050
SEQUENCE5782	cMhOj098d07a1	12051
SEQUENCE5783	cMhOj107b06a1	12052
SEQUENCE5784	cMhOj102c09a1	12053
SEQUENCE5785	cMhOj052g01a1	12054
SEQUENCE5786	cMhOj037g12a1	12055
SEQUENCE5787	cMhOj084e04a1	12056
SEQUENCE5788	cMhOj109c06a1	12057
SEQUENCE5789	cMhOj071b05a1	12058
SEQUENCE5790	cMhOj105a01a1	12059
SEQUENCE5791	cMhOj076g05a1	12060
SEQUENCE5792	cMhOj079a10a1	12061
SEQUENCE5793	cMhOj061e05a1	12062
SEQUENCE5794	cMhOj036c03a1	12063
SEQUENCE5795	cMhOj040h11a1	12064
SEQUENCE5796	cMhOj084c06a1	12065
SEQUENCE5797	cMhOj072a09a1	12066
SEQUENCE5798	cMhOj018b08a1	12067
SEQUENCE5799	cMhOj060e03a1	12068
SEQUENCE5800	cMhOj007e10a2	12069
SEQUENCE5801	cMhOj094a11a1	12070
SEQUENCE5802	cMhOj084b07a1	12071
SEQUENCE5803	cMhOj061a11a1	12072
SEQUENCE5804	cMhOj059b04a1	12073
SEQUENCE5805	cMhOj095d07a1	12074
SEQUENCE5806	cMhOj034c09a1	12075
SEQUENCE5807	cMhOj081b10a1	12076
SEQUENCE5808	cMhOj101c03a1	12077
SEQUENCE5809	cMhOj071e03a1	12078
SEQUENCE5810	cMhOj109e12a1	12079
SEQUENCE5811	cMhOj079f12a1	12080
SEQUENCE5812	cMhOj065b06a1	12081
SEQUENCE5814	cMhOj040c08a1	12082
SEQUENCE5815	cMhOj077f09a1	12083

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SEQUENCE5816	cMhOj043d04a1	12084
SEQUENCE5817	cMhOj111d06a1	12085
SEQUENCE5818	cMhOj092g12a1	12086
SEQUENCE5819	cMhOj108a05a1	12087
SEQUENCE5820	cMhOj045f09a1	12088
SEQUENCE5821	cMhOj064c12a1	12089
SEQUENCE5822	cMhOj105e12a1	12090
SEQUENCE5823	cMhOj111g09a1	12091
SEQUENCE5824	cMhOj036h02a1	12092
SEQUENCE5825	cMhOj086c01a1	12093
SEQUENCE5826	cMhOj058a02a1	12094
SEQUENCE5828	cMhOj060h07a1	12095
SEQUENCE5829	cMhOj104b11a1	12096
SEQUENCE5830	cMhOj059a09a1	12097
SEQUENCE5831	cMhOj081a10a1	12098
SEQUENCE5832	cMhOj018e09a1	12099
SEQUENCE5833	cMhOj035a07a1	12100
SEQUENCE5834	cMhOj074e11a1	12101
SEQUENCE5835	cMhOj071g12a1	12102
SEQUENCE5836	cMhOj080f12a1	12103
SEQUENCE5837	cMhOj072f12a1	12104
SEQUENCE5838	cMhOj101g05a1	12105
SEQUENCE5839	cMhOj077c09a1	12106
SEQUENCE5840	cMhOj047b10a1	12107
SEQUENCE5841	cMhOj075e04a1	12108
SEQUENCE5842	cMhOj059h09a1	12109
SEQUENCE5843	cMhOj023d09a1	12110
SEQUENCE5844	cMhOj043c02a1	12111
SEQUENCE5845	cMhOj013b10a1	12112
SEQUENCE5846	cMhOj109h06a1	12113
SEQUENCE5847	cMhOj052a11a1	12114
SEQUENCE5848	cMhOj068a01a1	12115
SEQUENCE5849	cMhOj053b08a1	12116
SEQUENCE5850	cMhOj046e09a1	12117
SEQUENCE5851	cMhOj098a04a1	12118
SEQUENCE5852	cMhOj071a02a1	12119
SEQUENCE5853	cMhOj035g11a1	12120
SEQUENCE5854	cMhOj056c07a1	12121
SEQUENCE5855	cMhOj093c05a1	12122
SEQUENCE5856	cMhOj110f11a1	12123
SEQUENCE5857	cMhOj022h03a1	12124
SEQUENCE5858	cMhOj046c08a1	12125
SEQUENCE5859	cMhOj088a02a1	12126
SEQUENCE5860	cMhOj092f09a1	12127
SEQUENCE5861	cMhOj047f06a1	12128
SEQUENCE5862	cMhOj048e12a1	12129
SEQUENCE5863	cMhOj042f02a1	12130
SEQUENCE5864	cMhOj076h12a1	12131
SEQUENCE5865	cMhOj085g07a1	12132
SEQUENCE5866	cMhOj049f06a1	12133
SEQUENCE5867	cMhOj057h04a1	12134
SEQUENCE5868	cMhOj017e12a1	12135
SEQUENCE5869	cMhOj007h12a2	12136

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SEQUENCE5870	cMhOj046a09a1	12137
SEQUENCE5871	cMhOj018d08a1	12138
SEQUENCE5872	cMhOj093f10a1	12139
SEQUENCE5873	cMhOj083d08a1	12140
SEQUENCE5874	cMhOj003c08a2	12141
SEQUENCE5875	cMhOj071b04a1	12142
SEQUENCE5876	cMhOj060b09a1	12143
SEQUENCE5877	cMhOj048b07a1	12144
SEQUENCE5878	cMhOj075d12a1	12145
SEQUENCE5879	cMhOj089a10a1	12146
SEQUENCE5880	cMhOj043a07a1	12147
SEQUENCE5881	cMhOj081c12a1	12148
SEQUENCE5882	cMhOj109g07a1	12149
SEQUENCE5883	cMhOj113a05a1	12150
SEQUENCE5884	cMhOj099e03a1	12151
SEQUENCE5885	cMhOj090e08a1	12152
SEQUENCE5886	cMhOj070g01a1	12153
SEQUENCE5887	cMhOj100d11a1	12154
SEQUENCE5888	cMhOj047a01a1	12155
SEQUENCE5889	cMhOj101a02a1	12156
SEQUENCE5890	cMhOj063c01a1	12157
SEQUENCE5891	cMhOj067c12a1	12158
SEQUENCE5892	cMhOj081f04a1	12159
SEQUENCE5893	cMhOj085e11a1	12160
SEQUENCE5894	cMhOj054g02a1	12161
SEQUENCE5895	cMhOj037d09a1	12162
SEQUENCE5896	cMhOj045g05a1	12163
SEQUENCE5897	cMhOj043h04a1	12164
SEQUENCE5898	cMhOj100e04a1	12165
SEQUENCE5899	cMhOj060e05a1	12166
SEQUENCE5900	cMhOj018g02a1	12167
SEQUENCE5901	cMhOj102g05a1	12168
SEQUENCE5902	cMhOj104d11a1	12169
SEQUENCE5903	cMhOj041g02a1	12170
SEQUENCE5904	cMhOj073h06a1	12171
SEQUENCE5905	cMhOj101d06a1	12172
SEQUENCE5906	cMhOj075f12a1	12173
SEQUENCE5907	cMhOj082d07a1	12174
SEQUENCE5908	cMhOj059d08a1	12175
SEQUENCE5909	cMhOj112h04a1	12176
SEQUENCE5910	cMhOj070c10a1	12177
SEQUENCE5911	cMhOj109c05a1	12178
SEQUENCE5912	cMhOj046f09a1	12179
SEQUENCE5913	cMhOj104b08a1	12180
SEQUENCE5914	cMhOj044d09a1	12181
SEQUENCE5915	cMhOj037f12a1	12182
SEQUENCE5916	cMhOj062d09a1	12183
SEQUENCE5917	cMhOj057d11a1	12184
SEQUENCE5918	cMhOj099b06a1	12185
SEQUENCE5919	cMhOj101g01a1	12186
SEQUENCE5920	cMhOj092a02a1	12187
SEQUENCE5921	cMhOj036b02a1	12188
SEQUENCE5922	cMhOj054e10a1	12189

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SEQUENCE5923	cMhOj010f04a1	12190
SEQUENCE5924	cMhOj098d10a1	12191
SEQUENCE5925	cMhOj052g08a1	12192
SEQUENCE5926	cMhOj038b08a1	12193
SEQUENCE5927	cMhOj068e10a1	12194
SEQUENCE5928	cMhOj085c02a1	12195
SEQUENCE5930	cMhOj071c06a1	12196
SEQUENCE5931	cMhOj060a05a1	12197
SEQUENCE5932	cMhOj105b10a1	12198
SEQUENCE5933	cMhOj111d08a1	12199
SEQUENCE5934	cMhOj003f08a2	12200
SEQUENCE5935	cMhOj061e07a1	12201
SEQUENCE5936	cMhOj036c06a1	12202
SEQUENCE5937	cMhOj041a05a1	12203
SEQUENCE5938	cMhOj113e05a1	12204
SEQUENCE5939	cMhOj100a08a1	12205
SEQUENCE5940	cMhOj016d06a1	12206
SEQUENCE5941	cMhOj084c01a1	12207
SEQUENCE5942	cMhOj098a07a1	12208
SEQUENCE5943	cMhOj059c02a1	12209
SEQUENCE5944	cMhOj096a07a1	12210
SEQUENCE5945	cMhOj034f08a1	12211
SEQUENCE5946	cMhOj071e04a1	12212
SEQUENCE5947	cMhOj079g01a1	12213
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SEQUENCE5950	cMhOj053f06a1	12216
SEQUENCE5951	cMhOj040d11a1	12217
SEQUENCE5952	cMhOj081b07a1	12218
SEQUENCE5953	cMhOj077h06a1	12219
SEQUENCE5954	cMhOj061f08a1	12220
SEQUENCE5955	cMhOj111f08a1	12221
SEQUENCE5956	cMhOj090d12a1	12222
SEQUENCE5957	cMhOj043d08a1	12223
SEQUENCE5958	cMhOj092h09a1	12224
SEQUENCE5959	cMhOj108a12a1	12225
SEQUENCE5960	cMhOj104g08a1	12226
SEQUENCE5961	cMhOj079b04a1	12227
SEQUENCE5962	cMhOj064d01a1	12228
SEQUENCE5963	cMhOj105f05a1	12229
SEQUENCE5964	cMhOj111h01a1	12230
SEQUENCE5965	cMhOj037b02a1	12231
SEQUENCE5966	cMhOj077b08a1	12232
SEQUENCE5967	cMhOj086h12a1	12233
SEQUENCE5968	cMhOj058b03a1	12234
SEQUENCE5969	cMhOj016c12a1	12235
SEQUENCE5970	cMhOj060h11a1	12236
SEQUENCE5971	cMhOj104c02a1	12237
SEQUENCE5972	cMhOj046e03a1	12238
SEQUENCE5973	cMhOj018e12a1	12239
SEQUENCE5974	cMhOj035c02a1	12240
SEQUENCE5975	cMhOj071h07a1	12241
SEQUENCE5976	cMhOj081a03a1	12242

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SEQUENCE5977	cMhOj073d03a1	12243
SEQUENCE5978	cMhOj003h01a2	12244
SEQUENCE5979	cMhOj077e04a1	12245
SEQUENCE5980	cMhOj047d09a1	12246
SEQUENCE5981	cMhOj094f12a1	12247
SEQUENCE5982	cMhOj060a02a1	12248
SEQUENCE5983	cMhOj075e06a1	12249
SEQUENCE5985	cMhOj056h06a1	12250
SEQUENCE5986	cMhOj013e01a1	12251
SEQUENCE5987	cMhOj081g10a1	12252
SEQUENCE5988	cMhOj110b11a1	12253
SEQUENCE5989	cMhOj057e02a1	12254
SEQUENCE5990	cMhOj068a07a1	12255
SEQUENCE5991	cMhOj048c10a1	12256
SEQUENCE5992	cMhOj053d12a1	12257
SEQUENCE5993	cMhOj046f05a1	12258
SEQUENCE5994	cMhOj071a06a1	12259
SEQUENCE5995	cMhOj094d08a1	12260
SEQUENCE5996	cMhOj056f01a1	12261
SEQUENCE5997	cMhOj093c07a1	12262
SEQUENCE5998	cMhOj110h10a1	12263
SEQUENCE5999	cMhOj092g01a1	12264
SEQUENCE6000	cMhOj075h05a1	12265
SEQUENCE6001	cMhOj048f10a1	12266
SEQUENCE6002	cMhOj042g09a1	12267
SEQUENCE6003	cMhOj077a12a1	12268
SEQUENCE6004	cMhOj058a01a1	12269
SEQUENCE6005	cMhOj017g03a1	12270
SEQUENCE6006	cMhOj063d08a1	12271
SEQUENCE6007	cMhOj009d12a1	12272
SEQUENCE6008	cMhOj105b11a1	12273
SEQUENCE6009	cMhOj046b10a1	12274
SEQUENCE6010	cMhOj093f12a1	12275
SEQUENCE6011	cMhOj083g04a1	12276
SEQUENCE6012	cMhOj061f01a1	12277
SEQUENCE6013	cMhOj060b11a1	12278
SEQUENCE6014	cMhOj089b03a1	12279
SEQUENCE6015	cMhOj049d01a1	12280
SEQUENCE6016	cMhOj109h03a1	12281
SEQUENCE6017	cMhOj113b01a1	12282
SEQUENCE6018	cMhOj099g07a1	12283
SEQUENCE6019	cMhOj090f07a1	12284
SEQUENCE6020	cMhOj100e01a1	12285
SEQUENCE6021	cMhOj070g12a1	12286
SEQUENCE6022	cMhOj047a04a1	12287
SEQUENCE6023	cMhOj045a06a1	12288
SEQUENCE6024	cMhOj050c12a1	12289
SEQUENCE6025	cMhOj067d02a1	12290
SEQUENCE6026	cMhOj074f06a1	12291
SEQUENCE6027	cMhOj096f06a1	12292
SEQUENCE6028	cMhOj111e01a1	12293
SEQUENCE6029	cMhOj085g06a1	12294
SEQUENCE6030	cMhOj042d02a1	12295

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SEQUENCE6031	cMhOj036e01a1	12296
SEQUENCE6032	cMhOj054g05a1	12297
SEQUENCE6033	cMhOj018d06a1	12298
SEQUENCE6034	cMhOj100f09a1	12299
SEQUENCE6035	cMhOj060e09a1	12300
SEQUENCE6036	cMhOj018h10a1	12301
SEQUENCE6037	cMhOj052b12a1	12302
SEQUENCE6038	cMhOj104e06a1	12303
SEQUENCE6039	cMhOj041g05a1	12304
SEQUENCE6040	cMhOj069g01a1	12305
SEQUENCE6041	cMhOj074c05a1	12306
SEQUENCE6042	cMhOj079h09a1	12307
SEQUENCE6043	cMhOj083c08a1	12308
SEQUENCE6044	cMhOj059e05a1	12309
SEQUENCE6045	cMhOj112h05a1	12310
SEQUENCE6046	cMhOj023c01a1	12311
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SEQUENCE6053	cMhOj099b11a1	12318
SEQUENCE6054	cMhOj101g02a1	12319
SEQUENCE6055	cMhOj092b01a1	12320
SEQUENCE6056	cMhOj061e03a1	12321
SEQUENCE6057	cMhOj054f03a1	12322
SEQUENCE6058	cMhOj037d01a1	12323
SEQUENCE6059	cMhOj062c05a1	12324
SEQUENCE6060	cMhOj010f11a1	12325
SEQUENCE6061	cMhOj040g08a1	12326
SEQUENCE6062	cMhOj104c11a1	12327
SEQUENCE6063	cMhOj038c02a1	12328
SEQUENCE6064	cMhOj068g12a1	12329
SEQUENCE6065	cMhOj085c06a1	12330
SEQUENCE6066	cMhOj109d10a1	12331
SEQUENCE6067	cMhOj060a07a1	12332
SEQUENCE6068	cMhOj082a03a1	12333
SEQUENCE6069	cMhOj041c03a1	12334
SEQUENCE6070	cMhOj100c10a1	12335
SEQUENCE6071	cMhOj044c03a1	12336
SEQUENCE6072	cMhOj017a12a1	12337
SEQUENCE6073	cMhOj045h09a1	12338
SEQUENCE6074	cMhOj058d04a1	12339
SEQUENCE6075	cMhOj091b03a1	12340
SEQUENCE6076	cMhOj059c05a1	12341
SEQUENCE6077	cMhOj037e01a1	12342
SEQUENCE6078	cMhOj098a08a1	12343
SEQUENCE6079	cMhOj096a10a1	12344
SEQUENCE6080	cMhOj034g04a1	12345
SEQUENCE6081	cMhOj071f12a1	12346
SEQUENCE6082	cMhOj111h04a1	12347
SEQUENCE6083	cMhOj065g02a1	12348

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SEQUENCE6084	cMhOj101f12a1	12349
SEQUENCE6085	cMhOj053h03a1	12350
SEQUENCE6086	cMhOj109b06a1	12351
SEQUENCE6087	cMhOj077h12a1	12352
SEQUENCE6088	cMhOj062b02a1	12353
SEQUENCE6089	cMhOj111g04a1	12354
SEQUENCE6090	cMhOj057a12a1	12355
SEQUENCE6091	cMhOj043e03a1	12356
SEQUENCE6092	cMhOj091e04a1	12357
SEQUENCE6093	cMhOj108c05a1	12358
SEQUENCE6094	cMhOj079b06a1	12359
SEQUENCE6095	cMhOj098b07a1	12360
SEQUENCE6096	cMhOj107a03a1	12361
SEQUENCE6097	cMhOj054a05a1	12362
SEQUENCE6098	cMhOj070b05a1	12363
SEQUENCE6099	cMhOj094e07a1	12364
SEQUENCE6100	cMhOj056h02a1	12365
SEQUENCE6101	cMhOj077b10a1	12366
SEQUENCE6102	cMhOj058c04a1	12367
SEQUENCE6103	cMhOj016d02a1	12368
SEQUENCE6104	cMhOj062g10a1	12369
SEQUENCE6105	cMhOj035f09a1	12370
SEQUENCE6106	cMhOj045a10a1	12371
SEQUENCE6107	cMhOj072a03a1	12372
SEQUENCE6108	cMhOj073f10a1	12373
SEQUENCE6109	cMhOj060d06a1	12374
SEQUENCE6110	cMhOj003h04a2	12375
SEQUENCE6111	cMhOj075a06a1	12376
SEQUENCE6112	cMhOj047f05a1	12377
SEQUENCE6113	cMhOj111e09a1	12378
SEQUENCE6114	cMhOj095b03a1	12379
SEQUENCE6115	cMhOj075f07a1	12380
SEQUENCE6116	cMhOj034a12a1	12381
SEQUENCE6117	cMhOj042d04a1	12382
SEQUENCE6118	cMhOj056h09a1	12383
SEQUENCE6119	cMhOj013e12a1	12384
SEQUENCE6120	cMhOj110b12a1	12385
SEQUENCE6121	cMhOj057e05a1	12386
SEQUENCE6122	cMhOj068b01a1	12387
SEQUENCE6123	cMhOj064h07a1	12388
SEQUENCE6124	cMhOj053e02a1	12389
SEQUENCE6125	cMhOj038g12a1	12390
SEQUENCE6126	cMhOj076h01a1	12391
SEQUENCE6127	cMhOj084c10a1	12392
SEQUENCE6128	cMhOj056f05a1	12393
SEQUENCE6129	cMhOj093d07a1	12394
SEQUENCE6130	cMhOj111c02a1	12395
SEQUENCE6131	cMhOj092g05a1	12396
SEQUENCE6132	cMhOj076a03a1	12397
SEQUENCE6133	cMhOj049a08a1	12398
SEQUENCE6134	cMhOj077b02a1	12399
SEQUENCE6135	cMhOj107g08a1	12400
SEQUENCE6136	cMhOj017h05a1	12401

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SEQUENCE6137	cMhOj063f01a1	12402
SEQUENCE6138	cMhOj105c01a1	12403
SEQUENCE6139	cMhOj093h04a1	12404
SEQUENCE6140	cMhOj083g06a1	12405
SEQUENCE6141	cMhOj061f07a1	12406
SEQUENCE6142	cMhOj081h08a1	12407
SEQUENCE6143	cMhOj060c11a1	12408
SEQUENCE6144	cMhOj060g10a1	12409
SEQUENCE6145	cMhOj089f11a1	12410
SEQUENCE6146	cMhOj042c04a1	12411
SEQUENCE6148	cMhOj090g03a1	12412
SEQUENCE6149	cMhOj100e03a1	12413
SEQUENCE6150	cMhOj087a11a1	12414
SEQUENCE6151	cMhOj047a05a1	12415
SEQUENCE6152	cMhOj050g11a1	12416
SEQUENCE6153	cMhOj067e02a1	12417
SEQUENCE6154	cMhOj036e02a1	12418
SEQUENCE6155	cMhOj054g06a1	12419
SEQUENCE6156	cMhOj101g07a1	12420
SEQUENCE6157	cMhOj052d10a1	12421
SEQUENCE6158	cMhOj022b09a1	12422
SEQUENCE6159	cMhOj048d11a1	12423
SEQUENCE6160	cMhOj069g06a1	12424
SEQUENCE6161	cMhOj007f08a2	12425
SEQUENCE6162	cMhOj080a11a1	12426
SEQUENCE6163	cMhOj083d01a1	12427
SEQUENCE6164	cMhOj059f10a1	12428
SEQUENCE6165	cMhOj023c09a1	12429
SEQUENCE6166	cMhOj047h02a1	12430
SEQUENCE6167	cMhOj075a12a1	12431
SEQUENCE6168	cMhOj088c02a1	12432
SEQUENCE6169	cMhOj096f10a1	12433
SEQUENCE6170	cMhOj044h01a1	12434
SEQUENCE6171	cMhOj068b12a1	12435
SEQUENCE6172	cMhOj062e07a1	12436
SEQUENCE6173	cMhOj049f09a1	12437
SEQUENCE6174	cMhOj099c07a1	12438
SEQUENCE6175	cMhOj093a08a1	12439
SEQUENCE6176	cMhOj096c06a1	12440
SEQUENCE6177	cMhOj100c12a1	12441
SEQUENCE6178	cMhOj087g04a1	12442
SEQUENCE6179	cMhOj092d11a1	12443
SEQUENCE6180	cMhOj062d03a1	12444
SEQUENCE6181	cMhOj018c04a1	12445
SEQUENCE6182	cMhOj049e07a1	12446
SEQUENCE6183	cMhOj063a05a1	12447
SEQUENCE6184	cMhOj100a04a1	12448
SEQUENCE6185	cMhOj040g11a1	12449
SEQUENCE6186	cMhOj038e07a1	12450
SEQUENCE6187	cMhOj069c09a1	12451
SEQUENCE6188	cMhOj081e07a1	12452
SEQUENCE6189	cMhOj085c11a1	12453
SEQUENCE6190	cMhOj062c02a1	12454

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SEQUENCE6191	cMhOj078c02a1	12455
SEQUENCE6192	cMhOj060a12a1	12456
SEQUENCE6193	cMhOj043e10a1	12457
SEQUENCE6194	cMhOj107e11a1	12458
SEQUENCE6195	cMhOj054c09a1	12459
SEQUENCE6196	cMhOj101b05a1	12460
SEQUENCE6197	cMhOj041d02a1	12461
SEQUENCE6198	cMhOk101g07a1	12462
SEQUENCE6199	cMhOk017b01a2	12463
SEQUENCE6200	cMhOk089g05a1	12464
SEQUENCE6201	cMhOk109b10a2	12465
SEQUENCE6202	cMhOk076b03a1	12466
SEQUENCE6203	cMhOk095e12a1	12467
SEQUENCE6204	cMhOk057g04a1	12468
SEQUENCE6205	cMhOk072a11a1	12469
SEQUENCE6206	cMhOk080c01a1	12470
SEQUENCE6207	cMhOk070a10a2	12471
SEQUENCE6208	cMhOk090b10a1	12472
SEQUENCE6209	cMhOk040h07a1	12473
SEQUENCE6210	cMhOk091a01a1	12474
SEQUENCE6211	cMhOk038h08a2	12475
SEQUENCE6212	cMhOk082d07a1	12476
SEQUENCE6213	cMhOk102a10a1	12477
SEQUENCE6214	cMhOk017b07a2	12478
SEQUENCE6215	cMhOk076d03a1	12479
SEQUENCE6216	cMhOk032f06a2	12480
SEQUENCE6217	cMhOk072b03a1	12481
SEQUENCE6218	cMhOk080c04a1	12482
SEQUENCE6219	cMhOk070f06a2	12483
SEQUENCE6220	cMhOk003g07a3	12484
SEQUENCE6221	cMhOk055d08a2	12485
SEQUENCE6222	cMhOk090c05a1	12486
SEQUENCE6223	cMhOk042a09a2	12487
SEQUENCE6224	cMhOk084b03a1	12488
SEQUENCE6225	cMhOk102e01a1	12489
SEQUENCE6226	cMhOk017e01a2	12490
SEQUENCE6227	cMhOk076e06a1	12491
SEQUENCE6228	cMhOk079c03a1	12492
SEQUENCE6229	cMhOk089a04a1	12493
SEQUENCE6230	cMhOk091a06a1	12494
SEQUENCE6231	cMhOk073a05a1	12495
SEQUENCE6232	cMhOk003h04a3	12496
SEQUENCE6233	cMhOk055h07a2	12497
SEQUENCE6234	cMhOk090c12a1	12498
SEQUENCE6235	cMhOk042b12a2	12499
SEQUENCE6236	cMhOk084d04a1	12500
SEQUENCE6237	cMhOk047e12a2	12501
SEQUENCE6238	cMhOk032d01a2	12502
SEQUENCE6239	cMhOk098d12a1	12503
SEQUENCE6240	cMhOk076h04a1	12504
SEQUENCE6241	cMhOk097d03a1	12505
SEQUENCE6242	cMhOk079d05a1	12506
SEQUENCE6243	cMhOk089d06a1	12507

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SEQUENCE6244	cMhOk073d04a1	12508
SEQUENCE6245	cMhOk092f05a1	12509
SEQUENCE6246	cMhOk005a06a2	12510
SEQUENCE6247	cMhOk055h11a2	12511
SEQUENCE6248	cMhOk082e10a1	12512
SEQUENCE6249	cMhOk090d06a1	12513
SEQUENCE6250	cMhOk042c04a2	12514
SEQUENCE6251	cMhOk086g02a1	12515
SEQUENCE6252	cMhOk049g07a2	12516
SEQUENCE6253	cMhOk002b08a2	12517
SEQUENCE6254	cMhOk099a03a1	12518
SEQUENCE6255	cMhOk064f04a1	12519
SEQUENCE6256	cMhOk079g07a1	12520
SEQUENCE6257	cMhOk070g09a2	12521
SEQUENCE6258	cMhOk089d07a1	12522
SEQUENCE6259	cMhOk073d10a1	12523
SEQUENCE6260	cMhOk093c11a1	12524
SEQUENCE6261	cMhOk005f04a2	12525
SEQUENCE6262	cMhOk057a11a1	12526
SEQUENCE6263	cMhOk082g07a1	12527
SEQUENCE6264	cMhOk090g07a1	12528
SEQUENCE6265	cMhOk087a03a1	12529
SEQUENCE6266	cMhOk049h09a2	12530
SEQUENCE6267	cMhOk002b12a2	12531
SEQUENCE6268	cMhOk099c03a1	12532
SEQUENCE6269	cMhOk065b08a1	12533
SEQUENCE6270	cMhOk070h10a2	12534
SEQUENCE6271	cMhOk060e01a3	12535
SEQUENCE6272	cMhOk083d02a1	12536
SEQUENCE6273	cMhOk032d07a2	12537
SEQUENCE6274	cMhOk090h01a1	12538
SEQUENCE6275	cMhOk030d07a5	12539
SEQUENCE6276	cMhOk088b11a1	12540
SEQUENCE6277	cMhOk050e04a2	12541
SEQUENCE6278	cMhOk097e11a1	12542
SEQUENCE6279	cMhOk054a08a1	12543
SEQUENCE6280	cMhOk065c05a1	12544
SEQUENCE6281	cMhOk046a03a2	12545
SEQUENCE6282	cMhOk060g04a3	12546
SEQUENCE6283	cMhOk101b04a1	12547
SEQUENCE6284	cMhOk108f07a2	12548
SEQUENCE6285	cMhOk083e08a1	12549
SEQUENCE6286	cMhOk037g02a2	12550
SEQUENCE6287	cMhOk032e09a2	12551
SEQUENCE6288	cMhOk032b12a2	12552
SEQUENCE6289	cMhOk082c05a1	12553
SEQUENCE6290	cMhOk005h04a2	12554
SEQUENCE6291	cMhOk052a03a2	12555
SEQUENCE6292	cMhOk088g06a1	12556
SEQUENCE6293	cMhOk097f02a1	12557
SEQUENCE6294	cMhOk011g11a1	12558
SEQUENCE6295	cMhOk080b01a1	12559
SEQUENCE6296	cMhOk066c04a2	12560

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SEQUENCE6297	cMhOk079a07a1	12561
SEQUENCE6298	cMhOk046c09a2	12562
SEQUENCE6299	cMhOk065g05a1	12563
SEQUENCE6300	cMhOk099h03a1	12564
SEQUENCE6301	cMhOk062a12a3	12565
SEQUENCE6302	cMhOk055c02a2	12566
SEQUENCE6303	cMhOk101b08a1	12567
SEQUENCE6304	cMhOk083h08a1	12568
SEQUENCE6305	cMhOk037h04a2	12569
SEQUENCE6306	cMhOk016c11a1	12570
SEQUENCE6307	cMhOk032c04a2	12571
SEQUENCE6308	cMhOk100c06a1	12572
SEQUENCE6309	cMhOk052a09a2	12573
SEQUENCE6310	cMhOk010c05a1	12574
SEQUENCE6311	cMhOk097h08a1	12575
SEQUENCE6312	cMhOk066g07a2	12576
SEQUENCE6313	cMhOk023d08a1	12577
SEQUENCE6314	cMhOk079c02a1	12578
SEQUENCE6315	cMhOk047b04a2	12579
SEQUENCE6316	cMhOk106h06a2	12580
SEQUENCE6317	cMhOk063b09a3	12581
SEQUENCE6318	cMhOk089g09a1	12582
SEQUENCE6319	cMhOk097c03a1	12583
SEQUENCE6320	cMhOk032h02a2	12584
SEQUENCE6321	cMhOk014a09a1	12585
SEQUENCE6322	cMhOk095f06a1	12586
SEQUENCE6323	cMhOk038a08a2	12587
SEQUENCE6324	cMhOk016d04a1	12588
SEQUENCE6325	cMhOk059c08a1	12589
SEQUENCE6326	cMhOk032c11a2	12590
SEQUENCE6327	cMhOk052a10a2	12591
SEQUENCE6328	cMhOk100e11a1	12592
SEQUENCE6329	cMhOk098a01a1	12593
SEQUENCE6330	cMhOk101c01a1	12594
SEQUENCE6331	cMhOk067a12a1	12595
SEQUENCE6332	cMhOk030a09a5	12596
SEQUENCE6333	cMhOk080f07a1	12597
SEQUENCE6334	cMhOk064b02a1	12598
SEQUENCE6335	cMhOk089h05a1	12599
SEQUENCE6336	cMhOk035e07a3	12600
SEQUENCE6337	cMhOk014b01a1	12601
SEQUENCE6338	cMhOk089a01a1	12602
SEQUENCE6339	cMhOk095h09a1	12603
SEQUENCE6340	cMhOk101c08a1	12604
SEQUENCE6341	cMhOk052e03a2	12605
SEQUENCE6342	cMhOk067e10a1	12606
SEQUENCE6343	cMhOk030c12a5	12607
SEQUENCE6344	cMhOk043e10a2	12608
SEQUENCE6345	cMhOk091f12a1	12609
SEQUENCE6346	cMhOk059d10a1	12610
SEQUENCE6347	cMhOk081c07a1	12611
SEQUENCE6348	cMhOk017g05a2	12612
SEQUENCE6349	cMhOk089h10a1	12613

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SEQUENCE6350	cMhOk037a12a2	12614
SEQUENCE6351	cMhOk039f02a1	12615
SEQUENCE6352	cMhOk096a03a1	12616
SEQUENCE6353	cMhOk101c09a1	12617
SEQUENCE6354	cMhOk052g07a2	12618
SEQUENCE6355	cMhOk108c01a2	12619
SEQUENCE6356	cMhOk045b10a2	12620
SEQUENCE6357	cMhOk030d04a5	12621
SEQUENCE6358	cMhOk066b12a2	12622
SEQUENCE6359	cMhOk092f02a1	12623
SEQUENCE6360	cMhOk060c06a3	12624
SEQUENCE6361	cMhOk081h04a1	12625
SEQUENCE6362	cMhOk018e08a2	12626
SEQUENCE6363	cMhOk100f05a1	12627
SEQUENCE6364	cMhOk105f04a2	12628
SEQUENCE6365	cMhOk039f07a1	12629
SEQUENCE6366	cMhOk037b03a2	12630
SEQUENCE6367	cMhOk096d10a1	12631
SEQUENCE6368	cMhOk043a05a2	12632
SEQUENCE6369	cMhOk100e04a1	12633
SEQUENCE6370	cMhOk101f12a1	12634
SEQUENCE6371	cMhOk053f04a2	12635
SEQUENCE6372	cMhOk010h09a1	12636
SEQUENCE6373	cMhOk108c06a2	12637
SEQUENCE6374	cMhOk045f12a2	12638
SEQUENCE6375	cMhOk099d09a1	12639
SEQUENCE6377	cMhOk023a01a1	12640
SEQUENCE6378	cMhOk100g03a1	12641
SEQUENCE6379	cMhOk106b05a2	12642
SEQUENCE6380	cMhOk037c11a2	12643
SEQUENCE6381	cMhOk039g08a1	12644
SEQUENCE6382	cMhOk096e03a1	12645
SEQUENCE6383	cMhOk101g05a1	12646
SEQUENCE6384	cMhOk100e05a1	12647
SEQUENCE6385	cMhOk016d07a1	12648
SEQUENCE6386	cMhOk089f12a1	12649
SEQUENCE6387	cMhOk011b01a1	12650
SEQUENCE6388	cMhOk073g02a1	12651
SEQUENCE6389	cMhOk095a06a1	12652
SEQUENCE6390	cMhOk014b12a1	12653
SEQUENCE6391	cMhOk057d01a1	12654
SEQUENCE6392	cMhOk071c12a2	12655
SEQUENCE6393	cMhOk099e03a1	12656
SEQUENCE6394	cMhOk069h09a2	12657
SEQUENCE6395	cMhOk023d01a1	12658
SEQUENCE6396	cMhOk106g11a2	12659
SEQUENCE6397	cMhOk040c08a1	12660 contigs
SEQUENCE1	johOa001a01t2	12661
SEQUENCE2	johOa001c08t2	12662
SEQUENCE3	johOa003c08t1	12663
SEQUENCE4	johOa003d09t1	12664
SEQUENCE5	johOa003e07t1	12665
SEQUENCE6	johOa003f05t1	12666

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SEQUENCE7	johOa003e11t1	12667
SEQUENCE8	johOa003h05t1	12668
SEQUENCE10	johOa003h11t1	12669
SEQUENCE11	johOa003c02t1	12670
SEQUENCE12	johOa003a05t1	12671
SEQUENCE13	johOa016g01t1	12672
SEQUENCE14	johOa013h01t1	12673
SEQUENCE15	johOa004f09t1	12674
SEQUENCE16	johOa004g09t1	12675
SEQUENCE17	johOa004h09t1	12676
SEQUENCE20	johOa012g09t1	12677
SEQUENCE22	johOa002g12t1	12678
SEQUENCE23	johOa012a03t1	12679
SEQUENCE24	johOa012b09t1	12680
SEQUENCE25	johOa012c09t1	12681
SEQUENCE27	johOa002g05t1	12682
SEQUENCE28	johOa002a06t1	12683
SEQUENCE29	johOa002b02t1	12684
SEQUENCE30	johOa011b12t1	12685
SEQUENCE31	johOa011c12t1	12686
SEQUENCE32	johOa011d10t1	12687
SEQUENCE33	johOa013c10t1	12688
SEQUENCE34	johOa013c11t1	12689
SEQUENCE35	johOa013e05t1	12690
SEQUENCE36	johOa013c06t1	12691
SEQUENCE38	johOa014e07t1	12692
SEQUENCE39	johOa015f06t1	12693
SEQUENCE40	johOa015c03t1	12694
SEQUENCE42	johOa005b04t2	12695
SEQUENCE43	johOa005c04t2	12696
SEQUENCE44	johOa010b04t2	12697
SEQUENCE45	johOa010b09t2	12698
SEQUENCE46	johOa009b12t2	12699
SEQUENCE47	johOa010c07t2	12700
SEQUENCE48	johOa006e11t2	12701
SEQUENCE50	johOa007g08t2	12702
SEQUENCE51	johOa006g12t2	12703
SEQUENCE52	johOa010g07t2	12704
SEQUENCE53	johOa009c02t2	12705
SEQUENCE54	johOa007c09t2	12706
SEQUENCE55	johOa009g08t2	12707
SEQUENCE56	johOa007c03t2	12708
SEQUENCE57	johOa007e04t2	12709
SEQUENCE58	johOa007g03t2	12710
SEQUENCE60	johOa005f11t2	12711
SEQUENCE61	johOa005a11t2	12712
SEQUENCE62	johOa005f06t2	12713
SEQUENCE64	johOa005g08t2	12714
SEQUENCE67	johOa029h05t1	12715
SEQUENCE68	johOa029h02t1	12716
SEQUENCE69	johOa030e03t1	12717
SEQUENCE70	johOa028g11t1	12718
SEQUENCE71	johOa029h11t1	12719

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SEQUENCE73	johOa027a03t1	12720
SEQUENCE75	johOa025g12t1	12721
SEQUENCE78	johOa068d01t1	12722
SEQUENCE79	johOa019g07t1	12723
SEQUENCE80	johOa018b06t1	12724
SEQUENCE82	johOa019f08t1	12725
SEQUENCE83	johOa019a08t1	12726
SEQUENCE84	johOa018d05t1	12727
SEQUENCE85	johOa019e04t1	12728
SEQUENCE86	johOa020h06t1	12729
SEQUENCE87	johOa020d02t1	12730
SEQUENCE88	johOa038h03t1	12731
SEQUENCE89	johOa031e12t1	12732
SEQUENCE90	johOa037b03t1	12733
SEQUENCE91	johOa040e12t1	12734
SEQUENCE92	johOa058b09t1	12735
SEQUENCE93	johOa040g12t1	12736
SEQUENCE94	johOa058g11t1	12737
SEQUENCE95	johOa039a05t1	12738
SEQUENCE96	johOa039d03t1	12739
SEQUENCE97	johOa057c03t1	12740
SEQUENCE98	johOa057a05t1	12741
SEQUENCE99	johOa053e09t1	12742
SEQUENCE100	johOa052f07t1	12743
SEQUENCE101	johOa053h07t1	12744
SEQUENCE104	johOa052d02t1	12745
SEQUENCE105	johOa060h11t1	12746
SEQUENCE106	johOa051e09t1	12747
SEQUENCE107	johOa060g02t1	12748
SEQUENCE108	johOa051f02t1	12749
SEQUENCE109	johOa050f09t1	12750
SEQUENCE110	johOa060h10t1	12751
SEQUENCE111	johOa050e09t1	12752
SEQUENCE112	johOa048g11t1	12753
SEQUENCE114	johOa048c06t1	12754
SEQUENCE115	johOa045c04t1	12755
SEQUENCE116	johOa056a08t1	12756
SEQUENCE117	johOa056a06t1	12757
SEQUENCE118	johOa054c06t1	12758
SEQUENCE120	johOa056b05t1	12759
SEQUENCE124	johOa067e04t1	12760
SEQUENCE125	johOa070a09t1	12761
SEQUENCE126	johOa070h07t1	12762
SEQUENCE128	johOa068g02t1	12763
SEQUENCE129	johOa068a12t1	12764
SEQUENCE131	johOb001g08t1	12765
SEQUENCE132	johOb003b08t1	12766
SEQUENCE133	johOb003h01t1	12767
SEQUENCE135	johOb004g10t1	12768
SEQUENCE136	johOb002f07t1	12769
SEQUENCE137	johOb002g01t1	12770
SEQUENCE138	johOb011f11t1	12771
SEQUENCE139	johOb005f11t1	12772

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SEQUENCE140	johOb005a06t1	12773
SEQUENCE141	johOb005h04t1	12774
SEQUENCE142	johOb011c02t1	12775
SEQUENCE143	johOb005b08t1	12776
SEQUENCE144	johOb012b11t1	12777
SEQUENCE145	johOb008h11t1	12778
SEQUENCE146	johOb012g09t1	12779
SEQUENCE147	johOb012g08t1	12780
SEQUENCE148	johOb008a02t1	12781
SEQUENCE152	johOb007g05t2	12782
SEQUENCE154	johOb010d03t1	12783
SEQUENCE156	johOb016e05t1	12784
SEQUENCE157	johOb022e06t1	12785
SEQUENCE158	johOb022b02t1	12786
SEQUENCE160	johOb025a08t1	12787
SEQUENCE161	johOb025h03t1	12788
SEQUENCE162	johOb025c07t1	12789
SEQUENCE163	johOb025f01t1	12790
SEQUENCE164	johOb020e03t1	12791
SEQUENCE165	johOb023b09t1	12792
SEQUENCE166	johOb023g10t1	12793
SEQUENCE167	johOb019b02t1	12794
SEQUENCE168	johOb023g02t1	12795
SEQUENCE169	johOb017b09t1	12796
SEQUENCE170	johOb017h03t1	12797
SEQUENCE171	johOb017g05t1	12798
SEQUENCE173	johOb015a06t1	12799
SEQUENCE176	johOb014f12t1	12800
SEQUENCE178	johOc001f09t1	12801
SEQUENCE179	johOc001e09t1	12802
SEQUENCE180	johOc001b09t1	12803
SEQUENCE182	johOc001e04t1	12804
SEQUENCE183	johOc001f01t1	12805
SEQUENCE184	johOc001c11t1	12806
SEQUENCE186	johOc001d09t1	12807
SEQUENCE187	johOc001c07t1	12808
SEQUENCE188	johOc001g06t1	12809
SEQUENCE189	johOc001d05t1	12810
SEQUENCE192	johOc006a09t1	12811
SEQUENCE193	johOc006d03t1	12812
SEQUENCE195	johOc006c08t1	12813
SEQUENCE196	johOc004h09t1	12814
SEQUENCE197	johOc004e07t1	12815
SEQUENCE199	johOc006b03t1	12816
SEQUENCE200	johOc007f12t1	12817
SEQUENCE201	johOc004e05t1	12818
SEQUENCE202	johOc005g08t1	12819
SEQUENCE204	johOc005b10t1	12820
SEQUENCE205	johOc005f07t1	12821
SEQUENCE207	johOc003b07t1	12822
SEQUENCE208	johOc003e09t1	12823
SEQUENCE209	johOc003f04t1	12824
SEQUENCE211	johOc005b03t1	12825

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SEQUENCE212	johOc005b05t1	12826
SEQUENCE213	johOc005a03t1	12827
SEQUENCE214	johOc007a12t1	12828
SEQUENCE215	johOc007g06t1	12829
SEQUENCE216	johOc007c12t1	12830
SEQUENCE217	johOc007g11t1	12831
SEQUENCE219	johOc007d03t1	12832
SEQUENCE220	johOc016d08t1	12833
SEQUENCE221	johOc016c07t1	12834
SEQUENCE222	johOc016g07t1	12835
SEQUENCE223	johOc016f04t1	12836
SEQUENCE224	johOc016d03t1	12837
SEQUENCE225	johOc016f09t1	12838
SEQUENCE226	johOc016d01t1	12839
SEQUENCE227	johOc013h12t1	12840
SEQUENCE228	johOc013e01t1	12841
SEQUENCE229	johOc014c10t1	12842
SEQUENCE230	johOc014c12t1	12843
SEQUENCE231	johOc014d09t1	12844
SEQUENCE233	johOc014e04t1	12845
SEQUENCE234	johOc014f02t1	12846
SEQUENCE235	johOc002b04t1	12847
SEQUENCE236	johOc002c03t1	12848
SEQUENCE237	johOc002a04t1	12849
SEQUENCE240	johOc015c06t1	12850
SEQUENCE241	johOc015f04t1	12851
SEQUENCE242	johOc008g11t1	12852
SEQUENCE243	johOc008f11t1	12853
SEQUENCE244	johOc008h11t1	12854
SEQUENCE245	johOc010a03t1	12855
SEQUENCE247	johOc012a08t1	12856
SEQUENCE248	johOc011c08t1	12857
SEQUENCE250	johOc011h03t1	12858
SEQUENCE251	johOc010e04t1	12859
SEQUENCE252	johOc012c10t1	12860
SEQUENCE253	johOc011a11t1	12861
SEQUENCE254	johOc012c08t1	12862
SEQUENCE256	johOc011f08t1	12863
SEQUENCE257	johOc009a11t1	12864
SEQUENCE258	johOc011e08t1	12865
SEQUENCE259	johOc011f05t1	12866
SEQUENCE261	johOc011a04t1	12867
SEQUENCE262	johOc008e05t1	12868
SEQUENCE263	johOc008h02t1	12869
SEQUENCE265	johOc008d04t1	12870
SEQUENCE267	johOc008a01t1	12871
SEQUENCE268	johOc010a12t1	12872
SEQUENCE270	johOd004c10b1	12873
SEQUENCE272	johOd001f01a1	12874
SEQUENCE273	johOd001g07a1	12875
SEQUENCE276	johOd001c03a1	12876
SEQUENCE278	johOd002e09a1	12877
SEQUENCE281	johOd003h06a1	12878

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SEQUENCE284	johOd003h06b1	12879
SEQUENCE288	johOd031h09t2	12880
SEQUENCE291	johOd031d01t2	12881
SEQUENCE294	johOd045a04a1	12882
SEQUENCE300	johOd039e10a1	12883
SEQUENCE302	johOd056h10a1	12884
SEQUENCE306	johOd032f09a1	12885
SEQUENCE307	johOd033f05a1	12886
SEQUENCE308	johOd050h08a2	12887
SEQUENCE311	johOd049a06a2	12888
SEQUENCE314	johOd006d07t2	12889
SEQUENCE316,SEQUENCE326	johOd009a12t2	12890
SEQUENCE317,SEQUENCE327	johOd016g01t2	12891
SEQUENCE318,SEQUENCE328	johOd016a01t2	12892
SEQUENCE320	johOd015f01t2	12893
SEQUENCE330	johOd072b09a1	12894
SEQUENCE332	johOd067b12a1	12895
SEQUENCE333	johOd067g03a1	12896
SEQUENCE334	johOd072e04a1	12897
SEQUENCE337	johOd071d09a2	12898
SEQUENCE338	johOd073e02a2	12899
SEQUENCE339	johOd071b08a2	12900
SEQUENCE347	johOd093d03a1	12901
SEQUENCE352	johOd094e08a1	12902
SEQUENCE353	johOd095h01a1	12903
SEQUENCE354	johOd095e12a1	12904
SEQUENCE371,382,408,482,492,500	johOe001c11a1	12905
SEQUENCE372	johOe001d08a1	12906
SEQUENCE373	johOe001f07a1	12907
SEQUENCE374	johOe001d05a1	12908
SEQUENCE376	johOe001b04a1	12909
SEQUENCE379	johOe004a05a2	12910
SEQUENCE380,SEQUENCE409	johOe004b02a2	12911
SEQUENCE381	johOe005b12a2	12912
SEQUENCE383	johOe005f06a2	12913
SEQUENCE386	johOe004h02a2	12914
SEQUENCE387	johOe005b11a2	12915
SEQUENCE388	johOe008e09a2	12916
SEQUENCE394	johOe006h09a2	12917
SEQUENCE395	johOe011g12a2	12918
SEQUENCE399	johOe006g07a2	12919
SEQUENCE402	johOe008b09a2	12920
SEQUENCE407	johOe005c02a2	12921
SEQUENCE411	johOe011e12a2	12922
SEQUENCE413	johOe011a09a2	12923
SEQUENCE414	johOe011a06a2	12924
SEQUENCE417	johOe009b03a2	12925
SEQUENCE418	johOe009e02a2	12926
SEQUENCE420	johOe010c09a2	12927
SEQUENCE423	johOe009c03a2	12928
SEQUENCE424	johOe009b02a2	12929
SEQUENCE425	johOe010b12a2	12930
SEQUENCE426	johOe012e08a2	12931

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SEQUENCE428	johOe012g05a2	12932
SEQUENCE431	johOe011d02a2	12933
SEQUENCE433	johOe012c10a2	12934
SEQUENCE440	johOe007b03a2	12935
SEQUENCE447	johOe017b03a1	12936
SEQUENCE450	johOe016a09a1	12937
SEQUENCE451	johOe018f12a1	12938
SEQUENCE453	johOe017e08a1	12939
SEQUENCE454	johOe018b11a1	12940
SEQUENCE455	johOe016f05a1	12941
SEQUENCE456	johOe017e06a1	12942
SEQUENCE457	johOe016f04a1	12943
SEQUENCE459	johOe018c06a1	12944
SEQUENCE461	johOe018g02a1	12945
SEQUENCE462	johOe018f01a1	12946
SEQUENCE468	johOe014g05a1	12947
SEQUENCE473	johOe032e07a1	12948
SEQUENCE478	johOe019b07a1	12949
SEQUENCE488	johOe034a12a1	12950
SEQUENCE490	johOe034a11a1	12951
SEQUENCE491	johOe034g09a1	12952
SEQUENCE493	johOe034c08a1	12953
SEQUENCE496	johOe034g05a1	12954
SEQUENCE497	johOe033h11a1	12955
SEQUENCE501	johOe033b08a1	12956
SEQUENCE506	johOe035a01a1	12957
SEQUENCE507	johOe034c12a1	12958
SEQUENCE508	johOe033g05a1	12959
SEQUENCE509	johOe033d05a1	12960
SEQUENCE511	johOe033c05a1	12961
SEQUENCE515	johOe034b11a1	12962
SEQUENCE516	johOe033e03a1	12963
SEQUENCE517	johOe034b10a1	12964
SEQUENCE520	johOe034a09a1	12965
SEQUENCE521	johOe034a08a1	12966
SEQUENCE522	johOe032g10a1	12967
SEQUENCE523	johOe034b07a1	12968
SEQUENCE524	johOe032b10a1	12969
SEQUENCE525	johOe034a07a1	12970
SEQUENCE526	johOe034f06a1	12971
SEQUENCE527	johOe034a06a1	12972
SEQUENCE528	johOe034f05a1	12973
SEQUENCE529	johOe033g11a1	12974
SEQUENCE530	johOe033e10a1	12975
SEQUENCE531	johOe034a04a1	12976
SEQUENCE536	johOe034b01a1	12977
SEQUENCE541	johOe033f03a1	12978
SEQUENCE542	johOe032d09a1	12979
SEQUENCE543	johOe037e01a1	12980
SEQUENCE545	johOe036h11a1	12981
SEQUENCE547	johOe036g10a1	12982
SEQUENCE549	johOe036f09a1	12983
SEQUENCE551	johOe037d11a1	12984

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SEQUENCE552	johOe036d08a1	12985
SEQUENCE557	johOe037a08a1	12986
SEQUENCE559	johOe037f06a1	12987
SEQUENCE561	johOe037g05a1	12988
SEQUENCE570	johOe036g06a1	12989
SEQUENCE571	johOe037b10a1	12990
SEQUENCE575	johOe036d03a1	12991
SEQUENCE576	johOe036h01a1	12992
SEQUENCE577	johOe037c05a1	12993
SEQUENCE584	johOe019b03a1	12994
SEQUENCE587	johOe022f04a1	12995
SEQUENCE589	johOe022d03a1	12996
SEQUENCE590	johOe022h02a1	12997
SEQUENCE597	johOe025b02a1	12998
SEQUENCE606	johOe024h01a1	12999
SEQUENCE607	johOe025a06a1	13000
SEQUENCE611	johOe038e02a1	13001
SEQUENCE613	johOf013a09a1	13002
SEQUENCE615	johOf013e12a1	13003
SEQUENCE616	johOf013g11a1	13004
SEQUENCE619	johOf001h08b1	13005
SEQUENCE622	johOf001d06b1	13006
SEQUENCE623	johOf001c04b1	13007
SEQUENCE624	johOf001f06b1	13008
SEQUENCE625	johOf012g12a1	13009
SEQUENCE626	johOf012b11a1	13010
SEQUENCE627	johOf011g01a1	13011
SEQUENCE629	johOf010h03a1	13012
SEQUENCE630	johOf012c03a1	13013
SEQUENCE631	johOf012b03a1	13014
SEQUENCE634	johOf012g04a1	13015
SEQUENCE635	johOf003c10a1	13016
SEQUENCE637	johOf006a12a1	13017
SEQUENCE640	johOf002g09a1	13018
SEQUENCE643	johOf002d12a1	13019
SEQUENCE644	johOf007c04a1	13020
SEQUENCE647	johOf009g06a1	13021
SEQUENCE649	johOf030d11a1	13022
SEQUENCE650	johOf030g04a1	13023
SEQUENCE653	johOf026h02a1	13024
SEQUENCE654	johOf030f02a1	13025
SEQUENCE655	johOf027f06a1	13026
SEQUENCE661	johOf033c03a1	13027
SEQUENCE662	johOf029b04a1	13028
SEQUENCE664	johOf028e02a1	13029
SEQUENCE665	johOf028e01a1	13030
SEQUENCE666	johOf033g09a1	13031
SEQUENCE667	johOf033f09a1	13032
SEQUENCE668	johOf034d12a1	13033
SEQUENCE669	johOf033d04a1	13034
SEQUENCE671	johOf033d03a1	13035
SEQUENCE672	johOf033h08a1	13036
SEQUENCE673	johOf028g11a1	13037

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SEQUENCE674	johOf033f08a1	13038
SEQUENCE675	johOf033f07a1	13039
SEQUENCE676	johOf028d09a1	13040
SEQUENCE677	johOf032g07a1	13041
SEQUENCE678	johOf028g08a1	13042
SEQUENCE679	johOf032h03a1	13043
SEQUENCE680	johOf039a09a1	13044
SEQUENCE681	johOf038g01a1	13045
SEQUENCE684	johOf035f09a1	13046
SEQUENCE685	johOf035b06a1	13047
SEQUENCE686	johOf037e04a1	13048
SEQUENCE688	johOf035g02a1	13049
SEQUENCE689	johOf037c04a1	13050
SEQUENCE690	johOf029h12a1	13051
SEQUENCE694	johOf019h10a2	13052
SEQUENCE695	johOf019c08a2	13053
SEQUENCE700	johOf037h09a1	13054
SEQUENCE703	johOf022e12a2	13055
SEQUENCE704	johOf022c06a2	13056
SEQUENCE705	johOf023h07a2	13057
SEQUENCE708	johOf022b09a2	13058
SEQUENCE711	johOf023a10a2	13059
SEQUENCE712	johOf022g01a2	13060
SEQUENCE713	johOf020b08a2	13061
SEQUENCE714	johOf057a07a1	13062
SEQUENCE718	johOf056b06a1	13063
SEQUENCE720	johOf056e02a1	13064
SEQUENCE722	johOf068g02a1	13065
SEQUENCE723	johOf068a02a1	13066
SEQUENCE725	johOf068h02a1	13067
SEQUENCE728	johOf068f11a1	13068
SEQUENCE730	johOf066g03a1	13069
SEQUENCE733	johOf069f10a1	13070
SEQUENCE735	johOf069c12a1	13071
SEQUENCE736	johOf067f10a1	13072
SEQUENCE739	johOf067a06a1	13073
SEQUENCE740	johOf067c01a1	13074
SEQUENCE742	johOf067f07a1	13075
SEQUENCE743	johOf067c04a1	13076
SEQUENCE745	johOf067b02a1	13077
SEQUENCE747	johOf067e01a1	13078
SEQUENCE749	johOf058h02a1	13079
SEQUENCE752	johOf062c04a1	13080
SEQUENCE755	johOf058f04a1	13081
SEQUENCE758	johOf069b05a1	13082
SEQUENCE759	johOf069d07a1	13083
SEQUENCE760	johOf069a01a1	13084
SEQUENCE764	johOf017e07a1	13085
SEQUENCE766	johOf014e04a1	13086
SEQUENCE767	johOf017b03a1	13087
SEQUENCE768	johOf014f03a1	13088
SEQUENCE774	johOf017g08a1	13089
SEQUENCE776	johOf017h05a1	13090

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SEQUENCE777	johOf017e10a1	13091
SEQUENCE778	johOf017h01a1	13092
SEQUENCE780	johOf014f09a1	13093
SEQUENCE783	johOf078g06a1	13094
SEQUENCE785	johOf078e05a1	13095
SEQUENCE786	johOf082d03a1	13096
SEQUENCE788	johOf078a12a1	13097
SEQUENCE789	johOf082c10a1	13098
SEQUENCE790	johOf077c05a1	13099
SEQUENCE795	johOf097a12a1	13100
SEQUENCE798	johOf096f11a1	13101
SEQUENCE800	johOf087g01a1	13102
SEQUENCE802	johOf083b08a1	13103
SEQUENCE804	johOf085a06a1	13104
SEQUENCE805	johOf087b05a1	13105
SEQUENCE806	johOf087a04a1	13106
SEQUENCE810	johOf081b04a1	13107
SEQUENCE812	johOf090a05a1	13108
SEQUENCE814	johOf099d03a1	13109
SEQUENCE815	johOf081d03a1	13110
SEQUENCE816	johOf079d12a1	13111
SEQUENCE819	johOf099g10a1	13112
SEQUENCE823	johOf091g08a1	13113
SEQUENCE827	johOf083h01a1	13114
SEQUENCE829	johOf084a03a1	13115
SEQUENCE831	johOf084f06a1	13116
SEQUENCE839	johOf016h06a2	13117
SEQUENCE842	johOf070e12a1	13118
SEQUENCE843	johOf070f07a1	13119
SEQUENCE845	johOf070g11a1	13120
SEQUENCE847	johOf082a01a1	13121
SEQUENCE848	johOf070c04a1	13122
SEQUENCE853	johOf087d06a1	13123
SEQUENCE855	johOf088d07a1	13124
SEQUENCE856	johOf088h06a1	13125
SEQUENCE857	johOf088c05a1	13126
SEQUENCE863	johOf045g08a1	13127
SEQUENCE864	johOf045a04a1	13128
SEQUENCE866	johOf045a02a1	13129
SEQUENCE867	johOf045c04a1	13130
SEQUENCE869	johOf045g01a1	13131
SEQUENCE875	johOf042g06a1	13132
SEQUENCE876	johOf040c05a1	13133
SEQUENCE879	johOf040a02a1	13134
SEQUENCE881	johOf041g06a1	13135
SEQUENCE882	johOf041c06a1	13136
SEQUENCE883	johOf042b07a1	13137
SEQUENCE884	johOf042a08a1	13138
SEQUENCE885	johOf040e09a1	13139
SEQUENCE886	johOf040e07a1	13140
SEQUENCE887	johOf042g05a1	13141
SEQUENCE888	johOf040h04a1	13142
SEQUENCE889	johOf042a03a1	13143

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SEQUENCE890	johOf040d04a1	13144
SEQUENCE891	johOf042d01a1	13145
SEQUENCE892	johOf041c12a1	13146
SEQUENCE893	johOf041g09a1	13147
SEQUENCE895	johOf041c08a1	13148
SEQUENCE896	johOf041e07a1	13149
SEQUENCE897	johOf041e06a1	13150
SEQUENCE899	johOf071c02a1	13151
SEQUENCE900	johOf074e06a1	13152
SEQUENCE901	johOf074b05a1	13153
SEQUENCE902	johOf074c04a1	13154
SEQUENCE903	johOf071g12a1	13155
SEQUENCE905	johOf072g05a1	13156
SEQUENCE907	johOf071g06a1	13157
SEQUENCE912	johOfReA003d04a1	13158
SEQUENCE916	johOa001c11t2	13159
SEQUENCE917	johOa004c01t1	13160
SEQUENCE918	johOa003f09t1	13161
SEQUENCE920	johOa004h10t1	13162
SEQUENCE921	johOa004b04t1	13163
SEQUENCE922	johOa004d02t1	13164
SEQUENCE923	johOa011d01t1	13165
SEQUENCE924	johOa012g01t1	13166
SEQUENCE925	johOa012a04t1	13167
SEQUENCE926	johOa012e03t1	13168
SEQUENCE927	johOa002a02t1	13169
SEQUENCE928	johOa005b01t2	13170
SEQUENCE929	johOa011b10t1	13171
SEQUENCE930	johOa011d11t1	13172
SEQUENCE931	johOa013d05t1	13173
SEQUENCE932	johOa013c05t1	13174
SEQUENCE933	johOa013a03t1	13175
SEQUENCE934	johOa013e04t1	13176
SEQUENCE935	johOa014h02t1	13177
SEQUENCE936	johOa014a03t1	13178
SEQUENCE937	johOa015c11t1	13179
SEQUENCE938	johOa016e06t1	13180
SEQUENCE939	johOa014f05t1	13181
SEQUENCE940	johOa015f08t1	13182
SEQUENCE942	johOa014b06t1	13183
SEQUENCE943	johOa010a04t2	13184
SEQUENCE944	johOa010e04t2	13185
SEQUENCE945	johOa010f05t2	13186
SEQUENCE946	johOa009a08t2	13187
SEQUENCE947	johOa009b08t2	13188
SEQUENCE949	johOa009h10t2	13189
SEQUENCE950	johOa007h10t2	13190
SEQUENCE951	johOa009d06t2	13191
SEQUENCE952	johOa031f02t1	13192
SEQUENCE953	johOa031f01t1	13193
SEQUENCE954	johOa030f01t1	13194
SEQUENCE955	johOa029d06t1	13195
SEQUENCE956	johOa029d04t1	13196

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SEQUENCE957	johOa029e02t1	13197
SEQUENCE958	johOa028d12t1	13198
SEQUENCE959	johOa029c05t1	13199
SEQUENCE960	johOa029b02t1	13200
SEQUENCE961	johOa025h12t1	13201
SEQUENCE962	johOa025f01t1	13202
SEQUENCE963	johOa025g07t1	13203
SEQUENCE964	johOa025c07t1	13204
SEQUENCE965	johOa025c01t1	13205
SEQUENCE967	johOa018g06t1	13206
SEQUENCE968	johOa018g05t1	13207
SEQUENCE969	johOa018c01t1	13208
SEQUENCE970	johOa018d06t1	13209
SEQUENCE971	johOa020g04t1	13210
SEQUENCE972	johOa038b01t1	13211
SEQUENCE973	johOa037d01t1	13212
SEQUENCE974	johOa058c11t1	13213
SEQUENCE975	johOa040b12t1	13214
SEQUENCE976	johOa039f06t1	13215
SEQUENCE977	johOa058d06t1	13216
SEQUENCE978	johOa039a04t1	13217
SEQUENCE979	johOa058e05t1	13218
SEQUENCE980	johOa039h01t1	13219
SEQUENCE981	johOa039g01t1	13220
SEQUENCE982	johOa057h03t1	13221
SEQUENCE983	johOa058b04t1	13222
SEQUENCE984	johOa057f09t1	13223
SEQUENCE985	johOa057h08t1	13224
SEQUENCE986	johOa057e03t1	13225
SEQUENCE987	johOa052e11t1	13226
SEQUENCE988	johOa051b11t1	13227
SEQUENCE989	johOa052d01t1	13228
SEQUENCE990	johOa051d02t1	13229
SEQUENCE991	johOa054b02t1	13230
SEQUENCE993	johOa060a11t1	13231
SEQUENCE994	johOa051e06t1	13232
SEQUENCE995	johOa051b05t1	13233
SEQUENCE996	johOa053g12t1	13234
SEQUENCE997	johOa053h11t1	13235
SEQUENCE998	johOa050e12t1	13236
SEQUENCE999	johOa050b02t1	13237
SEQUENCE1000	johOa048a06t1	13238
SEQUENCE1001	johOa045f01t1	13239
SEQUENCE1002	johOa050d02t1	13240
SEQUENCE1003	johOa044h05t1	13241
SEQUENCE1004	johOa048f12t1	13242
SEQUENCE1005	johOa048g05t1	13243
SEQUENCE1006	johOa044h09t1	13244
SEQUENCE1007	johOa056a12t1	13245
SEQUENCE1008	johOa044h04t1	13246
SEQUENCE1009	johOa054g10t1	13247
SEQUENCE1010	johOa056a07t1	13248
SEQUENCE1011	johOa054c09t1	13249

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SEQUENCE1012	johOa054b04t1	13250
SEQUENCE1013	johOa054e02t1	13251
SEQUENCE1014	johOa056d02t1	13252
SEQUENCE1015	johOa054b10t1	13253
SEQUENCE1016	johOa054c04t1	13254
SEQUENCE1017	johOa067h12t1	13255
SEQUENCE1018	johOa067g08t1	13256
SEQUENCE1019	johOa067h06t1	13257
SEQUENCE1020	johOa067a10t1	13258
SEQUENCE1021	johOa070g04t1	13259
SEQUENCE1022	johOa070b10t1	13260
SEQUENCE1023	johOa067f01t1	13261
SEQUENCE1024	johOa067a02t1	13262
SEQUENCE1025	johOa070d09t1	13263
SEQUENCE1026	johOa070c09t1	13264
SEQUENCE1027	johOa068b03t1	13265
SEQUENCE1028	johOa068a11t1	13266
SEQUENCE1029	johOa068a03t1	13267
SEQUENCE1030	johOb001h04t1	13268
SEQUENCE1031	johOb001d04t1	13269
SEQUENCE1032	johOb001e10t1	13270
SEQUENCE1034	johOb001h07t1	13271
SEQUENCE1035	johOb003c09t1	13272
SEQUENCE1036	johOb003f07t1	13273
SEQUENCE1037	johOb003f06t1	13274
SEQUENCE1038	johOb003b06t1	13275
SEQUENCE1039	johOb004c10t1	13276
SEQUENCE1040	johOb004e06t1	13277
SEQUENCE1041	johOb004e02t1	13278
SEQUENCE1043	johOb004f09t1	13279
SEQUENCE1044	johOb004h04t1	13280
SEQUENCE1046	johOb002c11t1	13281
SEQUENCE1047	johOb002e01t1	13282
SEQUENCE1048	johOb002b11t1	13283
SEQUENCE1049	johOb006d03t1	13284
SEQUENCE1051	johOb005e04t1	13285
SEQUENCE1052	johOb006a11t1	13286
SEQUENCE1053	johOb012h05t1	13287
SEQUENCE1054	johOb005c06t1	13288
SEQUENCE1055	johOb006g10t1	13289
SEQUENCE1056	johOb012c03t1	13290
SEQUENCE1057	johOb013h10t1	13291
SEQUENCE1058	johOb007b05t2	13292
SEQUENCE1059	johOb010h12t1	13293
SEQUENCE1060	johOb010e09t1	13294
SEQUENCE1061	johOb016h05t1	13295
SEQUENCE1062	johOb016b01t1	13296
SEQUENCE1065	johOb018g12t1	13297
SEQUENCE1066	johOb018d10t1	13298
SEQUENCE1068	johOb018h07t1	13299
SEQUENCE1070	johOb025c02t1	13300
SEQUENCE1071	johOb020d07t1	13301
SEQUENCE1072	johOb021c12t1	13302

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SEQUENCE1073	johOb020b07t1	13303
SEQUENCE1074	johOb020b02t1	13304
SEQUENCE1075	johOb023g09t1	13305
SEQUENCE1076	johOb019e04t1	13306
SEQUENCE1077	johOb015a05t1	13307
SEQUENCE1078	johOb015c07t1	13308
SEQUENCE1079	johOb014a12t1	13309
SEQUENCE1080	johOb014e12t1	13310
SEQUENCE1081	johOb014b12t1	13311
SEQUENCE1083	johOc001a05t1	13312
SEQUENCE1084	johOc001c12t1	13313
SEQUENCE1085	johOc001g09t1	13314
SEQUENCE1086	johOc001g07t1	13315
SEQUENCE1088	johOc006e12t1	13316
SEQUENCE1090	johOc006c07t1	13317
SEQUENCE1091	johOc006b07t1	13318
SEQUENCE1092	johOc004g01t1	13319
SEQUENCE1093	johOc005d11t1	13320
SEQUENCE1094	johOc004a04t1	13321
SEQUENCE1095	johOc005b12t1	13322
SEQUENCE1096	johOc005a08t1	13323
SEQUENCE1097	johOc005c06t1	13324
SEQUENCE1098	johOc003b01t1	13325
SEQUENCE1099	johOc007g10t1	13326
SEQUENCE1100	johOc007b11t1	13327
SEQUENCE1101	johOc007b01t1	13328
SEQUENCE1103	johOc014a10t1	13329
SEQUENCE1104	johOc014d02t1	13330
SEQUENCE1105	johOc014c02t1	13331
SEQUENCE1106	johOc008g07t1	13332
SEQUENCE1107	johOc012a11t1	13333
SEQUENCE1108	johOc010h01t1	13334
SEQUENCE1109	johOc009h12t1	13335
SEQUENCE1110	johOc011d06t1	13336
SEQUENCE1111	johOc009g03t1	13337
SEQUENCE1112	johOc011d03t1	13338
SEQUENCE1113	johOc012g02t1	13339
SEQUENCE1114	johOc011f11t1	13340
SEQUENCE1115	johOc011a10t1	13341
SEQUENCE1116	johOc011a06t1	13342
SEQUENCE1117	johOc008c06t1	13343
SEQUENCE1118	johOc010b09t1	13344
SEQUENCE1119	johOc010h12t1	13345
SEQUENCE1120	johOc010e12t1	13346
SEQUENCE1121	johOd004d03a1	13347
SEQUENCE1123	johOd004b02b1	13348
SEQUENCE1128	johOd001d03b1	13349
SEQUENCE1131	johOd003e03a1	13350
SEQUENCE1139	johOd031b06t2	13351
SEQUENCE1143	johOd052f07a1	13352
SEQUENCE1144	johOd052h06a1	13353
SEQUENCE1146	johOd047a10a1	13354
SEQUENCE1152	johOd045c06a1	13355

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SEQUENCE1156	johOd041f07a1	13356
SEQUENCE1165	johOd051a01a1	13357
SEQUENCE1167	johOd057g05a1	13358
SEQUENCE1168	johOd057e03a1	13359
SEQUENCE1177	johOd064d04a2	13360
SEQUENCE1180	johOd064c01a2	13361
SEQUENCE1190	johOd055e07a2	13362
SEQUENCE1195	johOd050e12a2	13363
SEQUENCE1196	johOd048e01a2	13364
SEQUENCE1198	johOd049h01a2	13365
SEQUENCE1201	johOd048a09a2	13366
SEQUENCE1203	johOd049g08a2	13367
SEQUENCE1204	johOd007h04t2	13368
SEQUENCE1206	johOd006a08t2	13369
SEQUENCE1219	johOd067f11a1	13370
SEQUENCE1232	johOd069h05a2	13371
SEQUENCE1236	johOd063a10a2	13372
SEQUENCE1241	johOd062h12a2	13373
SEQUENCE1252	johOd094f11a1	13374
SEQUENCE1259	johOd095d08a1	13375
SEQUENCE1260	johOd096c03a1	13376
SEQUENCE1263	johOd085b09a1	13377
SEQUENCE1264	johOd085d07a1	13378
SEQUENCE1266	johOd091e08a1	13379
SEQUENCE1269	johOd091d02a1	13380
SEQUENCE1271	johOd091e04a1	13381
SEQUENCE1276	johOd090b07a1	13382
SEQUENCE1278	johOd090h03a1	13383
SEQUENCE1281	johOd090c05a1	13384
SEQUENCE1283	johOd083g04a1	13385
SEQUENCE1286	johOd092c07a1	13386
SEQUENCE1296	johOd083f08a1	13387
SEQUENCE1301	johOd090d12a1	13388
SEQUENCE1308	johOe003e03a1	13389
SEQUENCE1310	johOe004f05a2	13390
SEQUENCE1312	johOe004d03a2	13391
SEQUENCE1313	johOe004a06a2	13392
SEQUENCE1315	johOe004d01a2	13393
SEQUENCE1316	johOe008h10a2	13394
SEQUENCE1319	johOe005f01a2	13395
SEQUENCE1323	johOe010c04a2	13396
SEQUENCE1325	johOe008a03a2	13397
SEQUENCE1326	johOe009g12a2	13398
SEQUENCE1327	johOe006g06a2	13399
SEQUENCE1330	johOe004g10a2	13400
SEQUENCE1332	johOe011d05a2	13401
SEQUENCE1333	johOe009d06a2	13402
SEQUENCE1334	johOe009h05a2	13403
SEQUENCE1335	johOe009f04a2	13404
SEQUENCE1337	johOe009b04a2	13405
SEQUENCE1340	johOe011e01a2	13406
SEQUENCE1341	johOe011h01a2	13407
SEQUENCE1344	johOe007e04a2	13408

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SEQUENCE1347	johOe006c01a2	13409
SEQUENCE1349	johOe016f06a1	13410
SEQUENCE1353	johOe016f12a1	13411
SEQUENCE1357	johOe017c03a1	13412
SEQUENCE1363	johOe014h06a1	13413
SEQUENCE1366	johOe032a01a1	13414
SEQUENCE1371	johOe035b10a1	13415
SEQUENCE1373	johOe035e06a1	13416
SEQUENCE1375	johOe035b03a1	13417
SEQUENCE1377	johOe034h06a1	13418
SEQUENCE1378	johOe034d05a1	13419
SEQUENCE1381	johOe034g02a1	13420
SEQUENCE1382	johOe034g01a1	13421
SEQUENCE1383	johOe033b01a1	13422
SEQUENCE1386	johOe034h01a1	13423
SEQUENCE1390	johOe032e10a1	13424
SEQUENCE1393	johOe036d10a1	13425
SEQUENCE1398	johOe022f09a1	13426
SEQUENCE1406	johOe028d05a1	13427
SEQUENCE1407	johOe028h01a1	13428
SEQUENCE1408	johOe025e12a1	13429
SEQUENCE1409	johOe025a12a1	13430
SEQUENCE1416	johOe038d03a1	13431
SEQUENCE1418	johOf006g09a1	13432
SEQUENCE1420	johOf011e12a1	13433
SEQUENCE1421	johOf013a06a1	13434
SEQUENCE1422	johOf001g10b1	13435
SEQUENCE1423	johOf001h04b1	13436
SEQUENCE1424	johOf001f07b1	13437
SEQUENCE1425	johOf010d07a1	13438
SEQUENCE1426	johOf012c08a1	13439
SEQUENCE1428	johOf005b02a1	13440
SEQUENCE1429	johOf004f07a1	13441
SEQUENCE1430	johOf002h06a1	13442
SEQUENCE1431	johOf030g07a1	13443
SEQUENCE1432	johOf030b05a1	13444
SEQUENCE1433	johOf026a11a1	13445
SEQUENCE1434	johOf026b02a1	13446
SEQUENCE1436	johOf032h11a1	13447
SEQUENCE1437	johOf032d10a1	13448
SEQUENCE1438	johOf032e07a1	13449
SEQUENCE1440	johOf032e11a1	13450
SEQUENCE1443	johOf029g08a1	13451
SEQUENCE1444	johOf019c10a2	13452
SEQUENCE1445	johOf019d09a2	13453
SEQUENCE1446	johOf019h05a2	13454
SEQUENCE1448	johOf037a10a1	13455
SEQUENCE1453	johOf023h04a2	13456
SEQUENCE1454	johOf021b09a2	13457
SEQUENCE1459	johOf021f01a2	13458
SEQUENCE1460	johOf024g12a2	13459
SEQUENCE1461	johOf057c12a1	13460
SEQUENCE1478	johOf056d12a1	13461

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SEQUENCE1479	johOf056h03a1	13462
SEQUENCE1480	johOf068h09a1	13463
SEQUENCE1482	johOf068f04a1	13464
SEQUENCE1483	johOf068d05a1	13465
SEQUENCE1484	johOf064c02a1	13466
SEQUENCE1485	johOf065b08a1	13467
SEQUENCE1486	johOf069g12a1	13468
SEQUENCE1488	johOf065d10a1	13469
SEQUENCE1491	johOf069a10a1	13470
SEQUENCE1492	johOf067h12a1	13471
SEQUENCE1493	johOf067a05a1	13472
SEQUENCE1494	johOf067e12a1	13473
SEQUENCE1495	johOf067b07a1	13474
SEQUENCE1496	johOf060a02a1	13475
SEQUENCE1497	johOf061d05a1	13476
SEQUENCE1499	johOf069e06a1	13477
SEQUENCE1502	johOf018h05a1	13478
SEQUENCE1504	johOf017e08a1	13479
SEQUENCE1506	johOf014g07a1	13480
SEQUENCE1507	johOf017f11a1	13481
SEQUENCE1508	johOf014h12a1	13482
SEQUENCE1509	johOf018d11a1	13483
SEQUENCE1510	johOf079e02a1	13484
SEQUENCE1511	johOf084g02a1	13485
SEQUENCE1514	johOf077e10a1	13486
SEQUENCE1515	johOf098g07a1	13487
SEQUENCE1516	johOf098d03a1	13488
SEQUENCE1519	johOf086f10a1	13489
SEQUENCE1522	johOf085h05a1	13490
SEQUENCE1523	johOf085d04a1	13491
SEQUENCE1524	johOf085b01a1	13492
SEQUENCE1525	johOf086c09a1	13493
SEQUENCE1526	johOf086e07a1	13494
SEQUENCE1527	johOf085c07a1	13495
SEQUENCE1528	johOf083c05a1	13496
SEQUENCE1533	johOf099e12a1	13497
SEQUENCE1534	johOf081h06a1	13498
SEQUENCE1535	johOf080d02a1	13499
SEQUENCE1536	johOf099g04a1	13500
SEQUENCE1537	johOf079c11a1	13501
SEQUENCE1538	johOf099a03a1	13502
SEQUENCE1542	johOf084f11a1	13503
SEQUENCE1543	johOf081g12a1	13504
SEQUENCE1545	johOf092a05a1	13505
SEQUENCE1547	johOf016d08a2	13506
SEQUENCE1549	johOf070h11a1	13507
SEQUENCE1550	johOf087g09a1	13508
SEQUENCE1552	johOf088d09a1	13509
SEQUENCE1553	johOf045a05a1	13510
SEQUENCE1554	johOf040c11a1	13511
SEQUENCE1555	johOf042c06a1	13512
SEQUENCE1556	johOf041g07a1	13513
SEQUENCE1557	johOf041c02a1	13514

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SEQUENCE1559	johOf042c03a1	13515
SEQUENCE1560	johOf041f06a1	13516
SEQUENCE1561	johOf074g09a1	13517
SEQUENCE1562	johOf072b03a1	13518
SEQUENCE1566	johOa001b01t1	13519
SEQUENCE1567	johOa004g12t1	13520
SEQUENCE1568	johOa015b07t1	13521
SEQUENCE1569	johOa031c06t1	13522
SEQUENCE1570	johOa019a09t1	13523
SEQUENCE1572	johOb013g03t1	13524
SEQUENCE1573	johOb023h10t1	13525
SEQUENCE1575	johOc006d07t1	13526
SEQUENCE1576	johOc005c01t1	13527
SEQUENCE1589	johOd031c02t2	13528
SEQUENCE1592	johOd096d03a1	13529
SEQUENCE1594	johOe037g09a1	13530
SEQUENCE1595	johOe037c01a1	13531
SEQUENCE1598	johOf002b08a1	13532
SEQUENCE1599	johOf028d01a1	13533
SEQUENCE1600	johOf020f10a2	13534
SEQUENCE1608	johOa001b10t2	13535
SEQUENCE1609	johOa001c09t2	13536
SEQUENCE1610	johOa001c10t2	13537
SEQUENCE1612	johOa001f11t2	13538
SEQUENCE1613	johOa002a04t1	13539
SEQUENCE1615	johOa002c11t1	13540
SEQUENCE1617	johOa002g09t1	13541
SEQUENCE1619	johOa003a09t1	13542
SEQUENCE1620	johOa003b03t1	13543
SEQUENCE1622	johOa003e12t1	13544
SEQUENCE1623	johOa003f02t1	13545
SEQUENCE1624	johOa003f07t1	13546
SEQUENCE1625	johOa003f08t1	13547
SEQUENCE1626	johOa003g08t1	13548
SEQUENCE1627	johOa003g11t1	13549
SEQUENCE1628	johOa003h06t1	13550
SEQUENCE1629	johOa003h08t1	13551
SEQUENCE1630	johOa003h12t1	13552
SEQUENCE1631	johOa004a07t1	13553
SEQUENCE1632	johOa004b01t1	13554
SEQUENCE1633	johOa004b10t1	13555
SEQUENCE1634	johOa004c03t1	13556
SEQUENCE1636	johOa004e03t1	13557
SEQUENCE1637	johOa004f01t1	13558
SEQUENCE1640	johOa004g07t1	13559
SEQUENCE1641	johOa004h01t1	13560
SEQUENCE1642	johOa004h04t1	13561
SEQUENCE1643	johOa005a02t2	13562
SEQUENCE1644	johOa005a06t2	13563
SEQUENCE1645	johOa005b06t2	13564
SEQUENCE1647	johOa005d03t2	13565
SEQUENCE1648	johOa005e03t2	13566
SEQUENCE1649	johOa005e07t2	13567

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SEQUENCE1650	johOa005f01t2	13568
SEQUENCE1652	johOa005g05t2	13569
SEQUENCE1654	johOa006a02t2	13570
SEQUENCE1655	johOa006d02t2	13571
SEQUENCE1656	johOa006e04t2	13572
SEQUENCE1657	johOa006h03t2	13573
SEQUENCE1658	johOa006h04t2	13574
SEQUENCE1659	johOa006h06t2	13575
SEQUENCE1660	johOa007c05t2	13576
SEQUENCE1661	johOa007d09t2	13577
SEQUENCE1662	johOa007f01t2	13578
SEQUENCE1664	johOa007g09t2	13579
SEQUENCE1665	johOa007h03t2	13580
SEQUENCE1666	johOa007h08t2	13581
SEQUENCE1667	johOa009a10t2	13582
SEQUENCE1668	johOa009a11t2	13583
SEQUENCE1670	johOa009d10t2	13584
SEQUENCE1671	johOa009e10t2	13585
SEQUENCE1672	johOa009e12t2	13586
SEQUENCE1673	johOa009f06t2	13587
SEQUENCE1674	johOa009g11t2	13588
SEQUENCE1675	johOa010a10t2	13589
SEQUENCE1676	johOa010c04t2	13590
SEQUENCE1678	johOa010d11t2	13591
SEQUENCE1680	johOa010e07t2	13592
SEQUENCE1681	johOa010f04t2	13593
SEQUENCE1682	johOa010g04t2	13594
SEQUENCE1685	johOa011e10t1	13595
SEQUENCE1686	johOa011f11t1	13596
SEQUENCE1687	johOa011g11t1	13597
SEQUENCE1689	johOa012a07t1	13598
SEQUENCE1690	johOa012b02t1	13599
SEQUENCE1692	johOa012e02t1	13600
SEQUENCE1693	johOa012f02t1	13601
SEQUENCE1694	johOa012f03t1	13602
SEQUENCE1695	johOa012f05t1	13603
SEQUENCE1696	johOa012f10t1	13604
SEQUENCE1697	johOa012g12t1	13605
SEQUENCE1698	johOa012h02t1	13606
SEQUENCE1699	johOa012h03t1	13607
SEQUENCE1700	johOa012h06t1	13608
SEQUENCE1702	johOa013b03t1	13609
SEQUENCE1703	johOa013b05t1	13610
SEQUENCE1704	johOa013b06t1	13611
SEQUENCE1705	johOa013c02t1	13612
SEQUENCE1707	johOa013d03t1	13613
SEQUENCE1708	johOa013d04t1	13614
SEQUENCE1709	johOa013e09t1	13615
SEQUENCE1710	johOa013f01t1	13616
SEQUENCE1711	johOa013g11t1	13617
SEQUENCE1712	johOa014a08t1	13618
SEQUENCE1713	johOa014d02t1	13619
SEQUENCE1714	johOa014d10t1	13620

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SEQUENCE1715	johOa014f02t1	13621
SEQUENCE1717	johOa014h03t1	13622
SEQUENCE1718	johOa015e03t1	13623
SEQUENCE1719	johOa015f09t1	13624
SEQUENCE1720	johOa015h04t1	13625
SEQUENCE1721	johOa015h06t1	13626
SEQUENCE1722	johOa016a09t1	13627
SEQUENCE1723	johOa016b11t1	13628
SEQUENCE1724	johOa016d08t1	13629
SEQUENCE1725	johOa016f03t1	13630
SEQUENCE1726	johOa016g12t1	13631
SEQUENCE1727	johOa016h05t1	13632
SEQUENCE1728	johOa016h09t1	13633
SEQUENCE1731	johOa019c05t1	13634
SEQUENCE1732	johOa019e08t1	13635
SEQUENCE1733	johOa019g01t1	13636
SEQUENCE1735	johOa019h08t1	13637
SEQUENCE1736	johOa020b09t1	13638
SEQUENCE1737	johOa020b11t1	13639
SEQUENCE1738	johOa020c09t1	13640
SEQUENCE1739	johOa020e08t1	13641
SEQUENCE1740	johOa020e09t1	13642
SEQUENCE1742	johOa024d01t1	13643
SEQUENCE1743	johOa025a09t1	13644
SEQUENCE1744	johOa025b05t1	13645
SEQUENCE1745	johOa025b08t1	13646
SEQUENCE1746	johOa025b09t1	13647
SEQUENCE1747	johOa025d02t1	13648
SEQUENCE1748	johOa025d11t1	13649
SEQUENCE1749	johOa025e11t1	13650
SEQUENCE1750	johOa025e12t1	13651
SEQUENCE1752	johOa025h02t1	13652
SEQUENCE1753	johOa027a04t1	13653
SEQUENCE1754	johOa027b09t1	13654
SEQUENCE1756	johOa027f01t1	13655
SEQUENCE1757	johOa027f11t1	13656
SEQUENCE1758	johOa028a08t1	13657
SEQUENCE1759	johOa028b11t1	13658
SEQUENCE1760	johOa028f04t1	13659
SEQUENCE1761	johOa028f10t1	13660
SEQUENCE1762	johOa028h01t1	13661
SEQUENCE1764	johOa029b04t1	13662
SEQUENCE1766	johOa029c07t1	13663
SEQUENCE1768	johOa029g09t1	13664
SEQUENCE1770	johOa030b01t1	13665
SEQUENCE1771	johOa030h02t1	13666
SEQUENCE1772	johOa030h05t1	13667
SEQUENCE1773	johOa031a01t1	13668
SEQUENCE1777	johOa031d11t1	13669
SEQUENCE1778	johOa031e09t1	13670
SEQUENCE1779	johOa031h06t1	13671
SEQUENCE1780	johOa037a09t1	13672
SEQUENCE1782	johOa038e07t1	13673

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SEQUENCE1783	johOa038e12t1	13674
SEQUENCE1784	johOa038h09t1	13675
SEQUENCE1785	johOa039a03t1	13676
SEQUENCE1786	johOa039g07t1	13677
SEQUENCE1787	johOa039g08t1	13678
SEQUENCE1788	johOa039h02t1	13679
SEQUENCE1789	johOa039h04t1	13680
SEQUENCE1790	johOa040b09t1	13681
SEQUENCE1791	johOa040c12t1	13682
SEQUENCE1792	johOa040e09t1	13683
SEQUENCE1793	johOa040e11t1	13684
SEQUENCE1795	johOa044a01t1	13685
SEQUENCE1796	johOa044a04t1	13686
SEQUENCE1798	johOa047a04t1	13687
SEQUENCE1799	johOa047h03t1	13688
SEQUENCE1800	johOa048b06t1	13689
SEQUENCE1801	johOa048c08t1	13690
SEQUENCE1802	johOa048g07t1	13691
SEQUENCE1803	johOa050b04t1	13692
SEQUENCE1804	johOa050b06t1	13693
SEQUENCE1806	johOa051d10t1	13694
SEQUENCE1807	johOa051d12t1	13695
SEQUENCE1808	johOa051e12t1	13696
SEQUENCE1809	johOa052c04t1	13697
SEQUENCE1810	johOa052c09t1	13698
SEQUENCE1811	johOa052g02t1	13699
SEQUENCE1812	johOa052h03t1	13700
SEQUENCE1815	johOa053f06t1	13701
SEQUENCE1816	johOa054a04t1	13702
SEQUENCE1817	johOa054a10t1	13703
SEQUENCE1818	johOa054b07t1	13704
SEQUENCE1819	johOa054e01t1	13705
SEQUENCE1820	johOa054e09t1	13706
SEQUENCE1822	johOa054f06t1	13707
SEQUENCE1823	johOa054f07t1	13708
SEQUENCE1824	johOa054g08t1	13709
SEQUENCE1825	johOa056a02t1	13710
SEQUENCE1826	johOa056e05t1	13711
SEQUENCE1828	johOa056g12t1	13712
SEQUENCE1830	johOa057e07t1	13713
SEQUENCE1831	johOa058a03t1	13714
SEQUENCE1832	johOa058b02t1	13715
SEQUENCE1833	johOa058b11t1	13716
SEQUENCE1834	johOa058c05t1	13717
SEQUENCE1835	johOa058c07t1	13718
SEQUENCE1837	johOa058e08t1	13719
SEQUENCE1840	johOa060h07t1	13720
SEQUENCE1841	johOa062c03t1	13721
SEQUENCE1842	johOa067a09t1	13722
SEQUENCE1843	johOa067b02t1	13723
SEQUENCE1844	johOa067c02t1	13724
SEQUENCE1846	johOa067g01t1	13725
SEQUENCE1848	johOa068c07t1	13726

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SEQUENCE1849	johOa068e10t1	13727
SEQUENCE1850	johOa068f08t1	13728
SEQUENCE1851	johOa068g05t1	13729
SEQUENCE1852	johOa068h04t1	13730
SEQUENCE1853	johOa070a11t1	13731
SEQUENCE1854	johOa070b01t1	13732
SEQUENCE1855	johOa070b05t1	13733
SEQUENCE1856	johOa070b08t1	13734
SEQUENCE1858	johOa070c01t1	13735
SEQUENCE1859	johOa070c12t1	13736
SEQUENCE1860	johOa070e05t1	13737
SEQUENCE1861	johOa070e08t1	13738
SEQUENCE1862	johOa070f09t1	13739
SEQUENCE1865	johOa070h11t1	13740
SEQUENCE1867	johOb001c07t1	13741
SEQUENCE1868	johOb001e12t1	13742
SEQUENCE1869	johOb001g06t1	13743
SEQUENCE1870	johOb001h03t1	13744
SEQUENCE1871	johOb001h11t1	13745
SEQUENCE1872	johOb002c09t1	13746
SEQUENCE1873	johOb002f03t1	13747
SEQUENCE1874	johOb002f10t1	13748
SEQUENCE1875	johOb002h05t1	13749
SEQUENCE1876	johOb003a05t1	13750
SEQUENCE1877	johOb003a12t1	13751
SEQUENCE1878	johOb003b07t1	13752
SEQUENCE1879	johOb003c06t1	13753
SEQUENCE1880	johOb003d03t1	13754
SEQUENCE1881	johOb003d09t1	13755
SEQUENCE1882	johOb003f03t1	13756
SEQUENCE1884	johOb003f11t1	13757
SEQUENCE1885	johOb004c09t1	13758
SEQUENCE1886	johOb004c12t1	13759
SEQUENCE1888	johOb004g04t1	13760
SEQUENCE1889	johOb004g05t1	13761
SEQUENCE1890	johOb004g09t1	13762
SEQUENCE1891	johOb004h12t1	13763
SEQUENCE1893	johOb005h02t1	13764
SEQUENCE1894	johOb006a05t1	13765
SEQUENCE1896	johOb006f11t1	13766
SEQUENCE1897	johOb006g05t1	13767
SEQUENCE1899	johOb007d05t2	13768
SEQUENCE1900	johOb008f10t1	13769
SEQUENCE1901	johOb008g06t1	13770
SEQUENCE1902	johOb008h12t1	13771
SEQUENCE1903	johOb010a07t1	13772
SEQUENCE1905	johOb011b09t1	13773
SEQUENCE1906	johOb011e04t1	13774
SEQUENCE1907	johOb011e10t1	13775
SEQUENCE1908	johOb011e12t1	13776
SEQUENCE1911	johOb012c09t1	13777
SEQUENCE1912	johOb012f06t1	13778
SEQUENCE1913	johOb012h11t1	13779

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SEQUENCE1914	johOb013b08t1	13780
SEQUENCE1915	johOb013c04t1	13781
SEQUENCE1916	johOb013c09t1	13782
SEQUENCE1917	johOb013f01t1	13783
SEQUENCE1918	johOb014b09t1	13784
SEQUENCE1919	johOb014c02t1	13785
SEQUENCE1920	johOb014c03t1	13786
SEQUENCE1922	johOb014g07t1	13787
SEQUENCE1923	johOb014h11t1	13788
SEQUENCE1925	johOb015d01t1	13789
SEQUENCE1926	johOb015d05t1	13790
SEQUENCE1927	johOb015f07t1	13791
SEQUENCE1928	johOb015g01t1	13792
SEQUENCE1930	johOb015h05t1	13793
SEQUENCE1931	johOb016g09t1	13794
SEQUENCE1932	johOb016h02t1	13795
SEQUENCE1933	johOb017c07t1	13796
SEQUENCE1935	johOb018f01t1	13797
SEQUENCE1936	johOb018f04t1	13798
SEQUENCE1939	johOb018h04t1	13799
SEQUENCE1940	johOb019a08t1	13800
SEQUENCE1941	johOb019e03t1	13801
SEQUENCE1942	johOb019h02t1	13802
SEQUENCE1943	johOb020a02t1	13803
SEQUENCE1944	johOb020c01t1	13804
SEQUENCE1945	johOb020e04t1	13805
SEQUENCE1946	johOb020f02t1	13806
SEQUENCE1947	johOb021a11t1	13807
SEQUENCE1948	johOb021f01t1	13808
SEQUENCE1949	johOb021g03t1	13809
SEQUENCE1950	johOb021g06t1	13810
SEQUENCE1951	johOb021h11t1	13811
SEQUENCE1952	johOb021h12t1	13812
SEQUENCE1953	johOb022a04t1	13813
SEQUENCE1954	johOb022a05t1	13814
SEQUENCE1955	johOb022b11t1	13815
SEQUENCE1956	johOb022d02t1	13816
SEQUENCE1957	johOb022d04t1	13817
SEQUENCE1958	johOb022e09t1	13818
SEQUENCE1959	johOb022f03t1	13819
SEQUENCE1960	johOb023a04t1	13820
SEQUENCE1961	johOb023e08t1	13821
SEQUENCE1963	johOb023g07t1	13822
SEQUENCE1964	johOb024b11t1	13823
SEQUENCE1965	johOb024d11t1	13824
SEQUENCE1966	johOb024e11t1	13825
SEQUENCE1967	johOb024g12t1	13826
SEQUENCE1970	johOb025e04t1	13827
SEQUENCE1971	johOb025f02t1	13828
SEQUENCE1972	johOb025f05t1	13829
SEQUENCE1976	johOc001a06t1	13830
SEQUENCE1977	johOc001b02t1	13831
SEQUENCE1979	johOc001c10t1	13832

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SEQUENCE1980	johOc001d04t1	13833
SEQUENCE1981	johOc001d10t1	13834
SEQUENCE1984	johOc001e08t1	13835
SEQUENCE1985	johOc001f08t1	13836
SEQUENCE1986	johOc001g05t1	13837
SEQUENCE1987	johOc001h02t1	13838
SEQUENCE1989	johOc002b11t1	13839
SEQUENCE1991	johOc002h10t1	13840
SEQUENCE1992	johOc003c01t1	13841
SEQUENCE1994	johOc003e08t1	13842
SEQUENCE1995	johOc003f01t1	13843
SEQUENCE1997	johOc004b10t1	13844
SEQUENCE1998	johOc004c08t1	13845
SEQUENCE1999	johOc005a05t1	13846
SEQUENCE2000	johOc005f11t1	13847
SEQUENCE2001	johOc005g03t1	13848
SEQUENCE2002	johOc006a12t1	13849
SEQUENCE2003	johOc006c10t1	13850
SEQUENCE2005	johOc006e08t1	13851
SEQUENCE2006	johOc006f05t1	13852
SEQUENCE2007	johOc006h02t1	13853
SEQUENCE2008	johOc007a08t1	13854
SEQUENCE2009	johOc007c02t1	13855
SEQUENCE2011	johOc007e10t1	13856
SEQUENCE2012	johOc007f05t1	13857
SEQUENCE2014	johOc008a11t1	13858
SEQUENCE2015	johOc008d05t1	13859
SEQUENCE2016	johOc008d07t1	13860
SEQUENCE2019	johOc008e11t1	13861
SEQUENCE2020	johOc008f06t1	13862
SEQUENCE2021	johOc008g09t1	13863
SEQUENCE2022	johOc008h01t1	13864
SEQUENCE2023	johOc009c04t1	13865
SEQUENCE2026	johOc009e05t1	13866
SEQUENCE2027	johOc009f11t1	13867
SEQUENCE2028	johOc009h05t1	13868
SEQUENCE2029	johOc010a04t1	13869
SEQUENCE2031	johOc010f12t1	13870
SEQUENCE2033	johOc011a02t1	13871
SEQUENCE2035	johOc011b08t1	13872
SEQUENCE2038	johOc011e07t1	13873
SEQUENCE2039	johOc011g09t1	13874
SEQUENCE2040	johOc011h06t1	13875
SEQUENCE2041	johOc012g07t1	13876
SEQUENCE2043	johOc013e03t1	13877
SEQUENCE2044	johOc013f05t1	13878
SEQUENCE2045	johOc013g05t1	13879
SEQUENCE2046	johOc013g09t1	13880
SEQUENCE2047	johOc014b08t1	13881
SEQUENCE2048	johOc014b10t1	13882
SEQUENCE2051	johOc014e09t1	13883
SEQUENCE2052	johOc014g11t1	13884
SEQUENCE2055	johOc015h09t1	13885

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SEQUENCE2057	johOc016b12t1	13886
SEQUENCE2058	johOc016c02t1	13887
SEQUENCE2059	johOc016d10t1	13888
SEQUENCE2060	johOc016f10t1	13889
SEQUENCE2064	johOd001d10a1	13890
SEQUENCE2067	johOd001e04b1	13891
SEQUENCE2068	johOd001e09b1	13892
SEQUENCE2069	johOd001f07b1	13893
SEQUENCE2074	johOd001h05a1	13894
SEQUENCE2079	johOd002e06a1	13895
SEQUENCE2080	johOd002e10a1	13896
SEQUENCE2081	johOd002e12a1	13897
SEQUENCE2086	johOd003d06b1	13898
SEQUENCE2087	johOd003f03a1	13899
SEQUENCE2091	johOd004d01b1	13900
SEQUENCE2093	johOd005c07t1	13901
SEQUENCE2094	johOd005g01t1	13902
SEQUENCE2096	johOd006f07t2	13903
SEQUENCE2100	johOd013c04t2	13904
SEQUENCE2103	johOd015g08t2	13905
SEQUENCE2104	johOd015h01t2	13906
SEQUENCE2105	johOd015h06t2	13907
SEQUENCE2107	johOd031e04t2	13908
SEQUENCE2108	johOd031e09t2	13909
SEQUENCE2110	johOd031f01t2	13910
SEQUENCE2115	johOd035e04a1	13911
SEQUENCE2121	johOd037h08a1	13912
SEQUENCE2125	johOd045c04a1	13913
SEQUENCE2127	johOd046a05a1	13914
SEQUENCE2129	johOd046g02a1	13915
SEQUENCE2131	johOd047a01a1	13916
SEQUENCE2132	johOd047d01a1	13917
SEQUENCE2136	johOd048h04a2	13918
SEQUENCE2140	johOd050d12a2	13919
SEQUENCE2142	johOd052c12a1	13920
SEQUENCE2143	johOd053a04a2	13921
SEQUENCE2144	johOd053f02a2	13922
SEQUENCE2145	johOd054c02a1	13923
SEQUENCE2147	johOd054d10a1	13924
SEQUENCE2148	johOd055b07a2	13925
SEQUENCE2150	johOd056b06a1	13926
SEQUENCE2153	johOd056g03a1	13927
SEQUENCE2156	johOd060c06a2	13928
SEQUENCE2157	johOd060d03a2	13929
SEQUENCE2158	johOd060f01a2	13930
SEQUENCE2159	johOd060f06a2	13931
SEQUENCE2166	johOd062h04a2	13932
SEQUENCE2167	johOd063c02a2	13933
SEQUENCE2168	johOd063d05a2	13934
SEQUENCE2170	johOd064b08a2	13935
SEQUENCE2171	johOd064b09a2	13936
SEQUENCE2173	johOd064d11a2	13937
SEQUENCE2179	johOd068h11a1	13938

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SEQUENCE2182	johOd069b06a2	13939
SEQUENCE2187	johOd070f08a2	13940
SEQUENCE2188	johOd071b09a2	13941
SEQUENCE2189	johOd071b12a2	13942
SEQUENCE2190	johOd071d07a2	13943
SEQUENCE2192	johOd072b05a1	13944
SEQUENCE2194	johOd083b06a1	13945
SEQUENCE2196	johOd083e04a1	13946
SEQUENCE2200	johOd085e12a1	13947
SEQUENCE2202	johOd086b01a2	13948
SEQUENCE2205	johOd087h05a2	13949
SEQUENCE2208	johOd088a07a2	13950
SEQUENCE2212	johOd090a06a1	13951
SEQUENCE2213	johOd090b05a1	13952
SEQUENCE2214	johOd090c01a1	13953
SEQUENCE2216	johOd090d10a1	13954
SEQUENCE2220	johOd091e10a1	13955
SEQUENCE2222	johOd092c06a1	13956
SEQUENCE2223	johOd092c09a1	13957
SEQUENCE2224	johOd092d07a1	13958
SEQUENCE2225	johOd092f10a1	13959
SEQUENCE2228	johOd093e04a1	13960
SEQUENCE2231	johOd094e04a1	13961
SEQUENCE2232	johOd094g08a1	13962
SEQUENCE2235	johOd095a08a1	13963
SEQUENCE2237	johOd095c08a1	13964
SEQUENCE2244	johOdReA002d07a1	13965
SEQUENCE2247	johOe001c07a1	13966
SEQUENCE2254	johOe001g03a1	13967
SEQUENCE2255	johOe001g06a1	13968
SEQUENCE2257	johOe002a01a1	13969
SEQUENCE2258	johOe002a05a1	13970
SEQUENCE2260	johOe002b06a1	13971
SEQUENCE2270	johOe004b07a2	13972
SEQUENCE2274	johOe004d05a2	13973
SEQUENCE2280	johOe004h01a2	13974
SEQUENCE2283	johOe005c01a2	13975
SEQUENCE2284	johOe005c08a2	13976
SEQUENCE2289	johOe005g12a2	13977
SEQUENCE2290	johOe006a02a2	13978
SEQUENCE2294	johOe006d06a2	13979
SEQUENCE2295	johOe006e08a2	13980
SEQUENCE2300	johOe007c02a2	13981
SEQUENCE2306	johOe008d05a2	13982
SEQUENCE2310	johOe009a08a2	13983
SEQUENCE2319	johOe010b10a2	13984
SEQUENCE2321	johOe010e03a2	13985
SEQUENCE2322	johOe010e11a2	13986
SEQUENCE2323	johOe010f07a2	13987
SEQUENCE2326	johOe011b11a2	13988
SEQUENCE2328	johOe011d04a2	13989
SEQUENCE2329	johOe011f07a2	13990
SEQUENCE2334	johOe012f04a2	13991

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SEQUENCE2335	johOe012g04a2	13992
SEQUENCE2337	johOe012h06a2	13993
SEQUENCE2338	johOe014a08a1	13994
SEQUENCE2340	johOe014a11a1	13995
SEQUENCE2341	johOe014b06a1	13996
SEQUENCE2343	johOe014b12a1	13997
SEQUENCE2349	johOe015a08a1	13998
SEQUENCE2350	johOe015c12a1	13999
SEQUENCE2353	johOe015e10a1	14000
SEQUENCE2355	johOe015f08a1	14001
SEQUENCE2357	johOe016b03a1	14002
SEQUENCE2360	johOe016c03a1	14003
SEQUENCE2361	johOe016d12a1	14004
SEQUENCE2362	johOe016f03a1	14005
SEQUENCE2366	johOe016h12a1	14006
SEQUENCE2367	johOe017d02a1	14007
SEQUENCE2369	johOe017f06a1	14008
SEQUENCE2374	johOe018d01a1	14009
SEQUENCE2375	johOe018d12a1	14010
SEQUENCE2377	johOe019d06a1	14011
SEQUENCE2379	johOe022c04a1	14012
SEQUENCE2383	johOe022g11a1	14013
SEQUENCE2386	johOe024b10a1	14014
SEQUENCE2389	johOe024f07a1	14015
SEQUENCE2390	johOe024f11a1	14016
SEQUENCE2399	johOe028c08a1	14017
SEQUENCE2410	johOe029c06a1	14018
SEQUENCE2413	johOe030a08a1	14019
SEQUENCE2414	johOe030b10a1	14020
SEQUENCE2424	johOe030h03a1	14021
SEQUENCE2429	johOe031e06a1	14022
SEQUENCE2431	johOe032b03a1	14023
SEQUENCE2434	johOe032b11a1	14024
SEQUENCE2439	johOe032f04a1	14025
SEQUENCE2442	johOe032g09a1	14026
SEQUENCE2444	johOe032h03a1	14027
SEQUENCE2446	johOe032h12a1	14028
SEQUENCE2447	johOe033c10a1	14029
SEQUENCE2468	johOe036e01a1	14030
SEQUENCE2469	johOe036f05a1	14031
SEQUENCE2471	johOe037a10a1	14032
SEQUENCE2474	johOe037d03a1	14033
SEQUENCE2478	johOe037g07a1	14034
SEQUENCE2482	johOe038b11a1	14035
SEQUENCE2484	johOe038f01a1	14036
SEQUENCE2485	johOe038h01a1	14037
SEQUENCE2488	johOf001b05b1	14038
SEQUENCE2492	johOf001g05b1	14039
SEQUENCE2493	johOf002a12a1	14040
SEQUENCE2494	johOf002d09a1	14041
SEQUENCE2499	johOf003e05a1	14042
SEQUENCE2503	johOf005b04a1	14043
SEQUENCE2505	johOf006c03a1	14044

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SEQUENCE2506	johOf006d01a1	14045
SEQUENCE2507	johOf006d03a1	14046
SEQUENCE2509	johOf007a05a1	14047
SEQUENCE2510	johOf009a11a1	14048
SEQUENCE2511	johOf009b08a1	14049
SEQUENCE2512	johOf009c06a1	14050
SEQUENCE2513	johOf010a03a1	14051
SEQUENCE2515	johOf010b02a1	14052
SEQUENCE2520	johOf010e10a1	14053
SEQUENCE2521	johOf011b04a1	14054
SEQUENCE2522	johOf011c08a1	14055
SEQUENCE2524	johOf011h11a1	14056
SEQUENCE2525	johOf012a05a1	14057
SEQUENCE2526	johOf012c01a1	14058
SEQUENCE2527	johOf013b04a1	14059
SEQUENCE2530	johOf013f03a1	14060
SEQUENCE2531	johOf013f10a1	14061
SEQUENCE2532	johOf013g06a1	14062
SEQUENCE2536	johOf014g03a1	14063
SEQUENCE2537	johOf014g10a1	14064
SEQUENCE2539	johOf014h03a1	14065
SEQUENCE2540	johOf014h08a1	14066
SEQUENCE2541	johOf016a07a2	14067
SEQUENCE2542	johOf016c12a2	14068
SEQUENCE2543	johOf016f09a2	14069
SEQUENCE2548	johOf017e03a1	14070
SEQUENCE2550	johOf018a06a1	14071
SEQUENCE2551	johOf018b07a1	14072
SEQUENCE2552	johOf018b08a1	14073
SEQUENCE2557	johOf018d07a1	14074
SEQUENCE2558	johOf018d08a1	14075
SEQUENCE2559	johOf018d10a1	14076
SEQUENCE2566	johOf018h03a1	14077
SEQUENCE2567	johOf019b05a2	14078
SEQUENCE2568	johOf019c02a2	14079
SEQUENCE2570	johOf019d11a2	14080
SEQUENCE2572	johOf019h04a2	14081
SEQUENCE2573	johOf020b09a2	14082
SEQUENCE2574	johOf020d06a2	14083
SEQUENCE2575	johOf020f07a2	14084
SEQUENCE2576	johOf021a11a2	14085
SEQUENCE2578	johOf021c05a2	14086
SEQUENCE2580	johOf021d08a2	14087
SEQUENCE2581	johOf021d09a2	14088
SEQUENCE2588	johOf022c11a2	14089
SEQUENCE2589	johOf022e01a2	14090
SEQUENCE2590	johOf022e03a2	14091
SEQUENCE2591	johOf022e09a2	14092
SEQUENCE2592	johOf022e10a2	14093
SEQUENCE2593	johOf022f10a2	14094
SEQUENCE2594	johOf022f12a2	14095
SEQUENCE2597	johOf023f10a2	14096
SEQUENCE2598	johOf024a04a2	14097

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SEQUENCE2600	johOf024d09a2	14098
SEQUENCE2601	johOf024e03a2	14099
SEQUENCE2603	johOf024e08a2	14100
SEQUENCE2605	johOf024g02a2	14101
SEQUENCE2606	johOf024h11a2	14102
SEQUENCE2607	johOf024h12a2	14103
SEQUENCE2608	johOf026a04a1	14104
SEQUENCE2614	johOf026g03a1	14105
SEQUENCE2616	johOf027a05a1	14106
SEQUENCE2619	johOf027e05a1	14107
SEQUENCE2622	johOf027g03a1	14108
SEQUENCE2625	johOf027h05a1	14109
SEQUENCE2628	johOf028f01a1	14110
SEQUENCE2629	johOf028f04a1	14111
SEQUENCE2630	johOf028g12a1	14112
SEQUENCE2632	johOf029b10a1	14113
SEQUENCE2634	johOf029d03a1	14114
SEQUENCE2635	johOf030a03a1	14115
SEQUENCE2637	johOf030b09a1	14116
SEQUENCE2640	johOf030d07a1	14117
SEQUENCE2643	johOf030e12a1	14118
SEQUENCE2644	johOf030f09a1	14119
SEQUENCE2646	johOf030h04a1	14120
SEQUENCE2647	johOf030h09a1	14121
SEQUENCE2649	johOf032a08a1	14122
SEQUENCE2650	johOf032a10a1	14123
SEQUENCE2651	johOf032a11a1	14124
SEQUENCE2653	johOf032f12a1	14125
SEQUENCE2654	johOf032h08a1	14126
SEQUENCE2655	johOf033a02a1	14127
SEQUENCE2656	johOf033a10a1	14128
SEQUENCE2660	johOf033h02a1	14129
SEQUENCE2661	johOf033h04a1	14130
SEQUENCE2662	johOf034a02a1	14131
SEQUENCE2665	johOf034f01a1	14132
SEQUENCE2666	johOf034h01a1	14133
SEQUENCE2669	johOf035c10a1	14134
SEQUENCE2670	johOf035d03a1	14135
SEQUENCE2671	johOf035e08a1	14136
SEQUENCE2676	johOf039a02a1	14137
SEQUENCE2677	johOf039b07a1	14138
SEQUENCE2678	johOf039c10a1	14139
SEQUENCE2679	johOf039d01a1	14140
SEQUENCE2680	johOf039d04a1	14141
SEQUENCE2682	johOf039g05a1	14142
SEQUENCE2694	johOf041d02a1	14143
SEQUENCE2697	johOf041f05a1	14144
SEQUENCE2699	johOf042a07a1	14145
SEQUENCE2701	johOf042d04a1	14146
SEQUENCE2702	johOf042d05a1	14147
SEQUENCE2706	johOf045b05a1	14148
SEQUENCE2707	johOf045b07a1	14149
SEQUENCE2708	johOf045c05a1	14150

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SEQUENCE2710	johOf056b10a1	14151
SEQUENCE2719	johOf060d05a1	14152
SEQUENCE2720	johOf060e05a1	14153
SEQUENCE2723	johOf064a12a1	14154
SEQUENCE2724	johOf064c03a1	14155
SEQUENCE2737	johOf067e06a1	14156
SEQUENCE2739	johOf067e10a1	14157
SEQUENCE2740	johOf067e11a1	14158
SEQUENCE2741	johOf067f12a1	14159
SEQUENCE2746	johOf068e09a1	14160
SEQUENCE2749	johOf069f03a1	14161
SEQUENCE2753	johOf069h03a1	14162
SEQUENCE2755	johOf070a06a1	14163
SEQUENCE2757	johOf070f08a1	14164
SEQUENCE2758	johOf070g02a1	14165
SEQUENCE2759	johOf070h10a1	14166
SEQUENCE2760	johOf071c12a1	14167
SEQUENCE2762	johOf072b09a1	14168
SEQUENCE2766	johOf074a03a1	14169
SEQUENCE2772	johOf074f01a1	14170
SEQUENCE2775	johOf077a08a1	14171
SEQUENCE2778	johOf077e11a1	14172
SEQUENCE2779	johOf077g02a1	14173
SEQUENCE2782	johOf078d09a1	14174
SEQUENCE2783	johOf079g07a1	14175
SEQUENCE2787	johOf081a10a1	14176
SEQUENCE2791	johOf081h08a1	14177
SEQUENCE2794	johOf082h05a1	14178
SEQUENCE2798	johOf084g07a1	14179
SEQUENCE2799	johOf085g01a1	14180
SEQUENCE2800	johOf085h07a1	14181
SEQUENCE2803	johOf086e05a1	14182
SEQUENCE2805	johOf086g12a1	14183
SEQUENCE2806	johOf087a10a1	14184
SEQUENCE2810	johOf088e07a1	14185
SEQUENCE2815	johOf089d05a1	14186
SEQUENCE2819	johOf089h01a1	14187
SEQUENCE2823	johOf090b01a1	14188
SEQUENCE2826	johOf090f09a1	14189
SEQUENCE2828	johOf090f12a1	14190
SEQUENCE2831	johOf091b09a1	14191
SEQUENCE2835	johOf091d12a1	14192
SEQUENCE2837	johOf091h05a1	14193
SEQUENCE2840	johOf094e12a1	14194
SEQUENCE2841	johOf095a08a1	14195
SEQUENCE2845	johOf096f05a1	14196
SEQUENCE2846	johOf096h09a1	14197
SEQUENCE2847	johOf097b03a1	14198
SEQUENCE2849	johOf097f11a1	14199
SEQUENCE2852	johOf098a03a1	14200
SEQUENCE2853	johOf098a05a1	14201
SEQUENCE2855	johOf099b02a1	14202
SEQUENCE2856	johOf099b10a1	14203

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SEQUENCE2859	johOf099d11a1	14204
SEQUENCE2861	johOf099f10a1	14205
SEQUENCE2864	johOf099h08a1	14206
SEQUENCE2865	johOfReA002c11a1	14207
SEQUENCE2876	cMhOg048g09a1	14208
SEQUENCE2879	cMhOg011d05a1	14209
SEQUENCE2880	cMhOg020c08a1	14210
SEQUENCE2888	cMhOg045b01a1	14211
SEQUENCE2890	cMhOg048a07a1	14212
SEQUENCE2891	cMhOg051e05a1	14213
SEQUENCE2893	cMhOg033b09a1	14214
SEQUENCE2897	cMhOg024g02a1	14215
SEQUENCE2898	cMhOg033c10a1	14216
SEQUENCE2906	cMhOg043d09a1	14217
SEQUENCE2910	cMhOg048h09a1	14218
SEQUENCE2913	cMhOg022e03a1	14219
SEQUENCE2915	cMhOg020e09a1	14220
SEQUENCE2917	cMhOg046e12a2	14221
SEQUENCE2918	cMhOg051h11a1	14222
SEQUENCE2920	cMhOg003b10a2	14223
SEQUENCE2929	cMhOg039d08a1	14224
SEQUENCE2930	cMhOg031d07a1	14225
SEQUENCE2933	cMhOg022g01a1	14226
SEQUENCE2934	cMhOg033f11a1	14227
SEQUENCE2935	cMhOg001h09a2	14228
SEQUENCE2939	cMhOg018g05a1	14229
SEQUENCE2942	cMhOg050b10a1	14230
SEQUENCE2943	cMhOg015a06a1	14231
SEQUENCE2947	cMhOg053h12a1	14232
SEQUENCE2950	cMhOg008c12a1	14233
SEQUENCE2953	cMhOg048g08a1	14234
SEQUENCE2954	cMhOg010a04a1	14235
SEQUENCE2955	cMhOg031a04a1	14236
SEQUENCE2956	cMhOg001f07a2	14237
SEQUENCE2957	cMhOg021e05a1	14238
SEQUENCE2958	cMhOg041h05a1	14239
SEQUENCE2960	cMhOg032d02a1	14240
SEQUENCE2961	cMhOg005g04a1	14241
SEQUENCE2962	cMhOg046h08a2	14242
SEQUENCE2963	cMhOg032a09a1	14243
SEQUENCE2964	cMhOg044h03a1	14244
SEQUENCE2967	cMhOg051b08a1	14245
SEQUENCE2968	cMhOg002b02a2	14246
SEQUENCE2971	cMhOg005f05a1	14247
SEQUENCE2972	cMhOg050h05a1	14248
SEQUENCE2976	cMhOg010a03a1	14249
SEQUENCE2979	cMhOh072a08a3	14250
SEQUENCE2980	cMhOh084d12a1	14251
SEQUENCE2983	cMhOh014e07a2	14252
SEQUENCE2984	cMhOh011b09a1	14253
SEQUENCE2985	cMhOh013d10a1	14254
SEQUENCE2986	cMhOh118b12a2	14255
SEQUENCE2991	cMhOh098c03a2	14256

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SEQUENCE2993	cMhOh128g06a2	14257
SEQUENCE2994	cMhOh104f01a2	14258
SEQUENCE2996	cMhOh093g12a2	14259
SEQUENCE2997	cMhOh126g09a2	14260
SEQUENCE3002	cMhOh013f05a2	14261
SEQUENCE3005	cMhOh011g07a2	14262
SEQUENCE3007	cMhOh013b12a2	14263
SEQUENCE3008	cMhOh013e12a2	14264
SEQUENCE3009	cMhOh073a01a3	14265
SEQUENCE3013	cMhOh013e06a2	14266
SEQUENCE3017	cMhOh002a08a1	14267
SEQUENCE3018	cMhOh044e01a2	14268
SEQUENCE3027	cMhOh120g06a2	14269
SEQUENCE3031	cMhOh053d11a1	14270
SEQUENCE3033	cMhOh013g11a2	14271
SEQUENCE3034	cMhOh011d06a2	14272
SEQUENCE3039	cMhOh048e10a1	14273
SEQUENCE3045	cMhOh013g05a2	14274
SEQUENCE3047	cMhOh077f03a1	14275
SEQUENCE3049	cMhOh069a03a1	14276
SEQUENCE3050	cMhOh086g03a2	14277
SEQUENCE3054	cMhOh086c02a2	14278
SEQUENCE3060	cMhOh004h02a1	14279
SEQUENCE3061	cMhOh030c05a1	14280
SEQUENCE3062	cMhOh123h12a2	14281
SEQUENCE3063	cMhOh089f11a2	14282
SEQUENCE3064	cMhOh123d08a2	14283
SEQUENCE3065	cMhOh025b01a1	14284
SEQUENCE3066	cMhOh089f01a2	14285
SEQUENCE3068	cMhOh022a03a2	14286
SEQUENCE3070	cMhOh088b10a2	14287
SEQUENCE3071	cMhOh115g08a2	14288
SEQUENCE3077	cMhOh110h07a2	14289
SEQUENCE3080	cMhOh120c07a2	14290
SEQUENCE3088	cMhOh082g09a3	14291
SEQUENCE3091	cMhOh082c02a3	14292
SEQUENCE3094	cMhOh017f08a1	14293
SEQUENCE3101	cMhOh069a10a1	14294
SEQUENCE3104	cMhOh002b08a1	14295
SEQUENCE3109	cMhOh030a07a1	14296
SEQUENCE3111	cMhOh041b03a1	14297
SEQUENCE3114	cMhOh014f04a1	14298
SEQUENCE3122	cMhOh124b07a1	14299
SEQUENCE3125	cMhOh011a06a2	14300
SEQUENCE3126	cMhOh060a02a1	14301
SEQUENCE3127	cMhOh117b08a3	14302
SEQUENCE3128	cMhOh014b08a2	14303
SEQUENCE3130	cMhOh107e02a2	14304
SEQUENCE3134	cMhOh023h07a2	14305
SEQUENCE3138	cMhOh029a11a1	14306
SEQUENCE3140	cMhOh022d11a2	14307
SEQUENCE3141	cMhOh083e01a3	14308
SEQUENCE3142	cMhOh090b02a2	14309

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SEQUENCE3146	cMhOh019h04a2	14310
SEQUENCE3147	cMhOh105g03a2	14311
SEQUENCE3148	cMhOh094a01a3	14312
SEQUENCE3152	cMhOh013a04a2	14313
SEQUENCE3161	cMhOh109f01a2	14314
SEQUENCE3165	cMhOh108b12a2	14315
SEQUENCE3166	cMhOh014f07a2	14316
SEQUENCE3176	cMhOh017g06a1	14317
SEQUENCE3177	cMhOh121c12a2	14318
SEQUENCE3178	cMhOh122h01a2	14319
SEQUENCE3179	cMhOh083b01a3	14320
SEQUENCE3182	cMhOh017f12a1	14321
SEQUENCE3187	cMhOh129e05a2	14322
SEQUENCE3191	cMhOh128g10a2	14323
SEQUENCE3207	cMhOh011g01a2	14324
SEQUENCE3214	cMhOh013d12a1	14325
SEQUENCE3216	cMhOh044h11a2	14326
SEQUENCE3218	cMhOh044c03a2	14327
SEQUENCE3220	cMhOh016g06a1	14328
SEQUENCE3226	cMhOh120f05a2	14329
SEQUENCE3227	cMhOh008g06a2	14330
SEQUENCE3228	cMhOh015d04a1	14331
SEQUENCE3233	cMhOh052f08a2	14332
SEQUENCE3236	cMhOh052d12a2	14333
SEQUENCE3239	cMhOh048g01a1	14334
SEQUENCE3245	cMhOh122a08a2	14335
SEQUENCE3247	cMhOh031f04a2	14336
SEQUENCE3251	cMhOh087a04a2	14337
SEQUENCE3257	cMhOh086d08a2	14338
SEQUENCE3269	cMhOh089f02a2	14339
SEQUENCE3273	cMhOh116e01a2	14340
SEQUENCE3275	cMhOh120e06a2	14341
SEQUENCE3277	cMhOh011f05a2	14342
SEQUENCE3279	cMhOh115g04a2	14343
SEQUENCE3280	cMhOh120c11a2	14344
SEQUENCE3291	cMhOh009a12a1	14345
SEQUENCE3298	cMhOh082b10a3	14346
SEQUENCE3322	cMhOh124e02a2	14347
SEQUENCE3330	cMhOh059h07a2	14348
SEQUENCE3332	cMhOh113f05a2	14349
SEQUENCE3341	cMhOh084b10a1	14350
SEQUENCE3344	cMhOh095d03a2	14351
SEQUENCE3345	cMhOh019h10a2	14352
SEQUENCE3352	cMhOh119f08a2	14353
SEQUENCE3354	cMhOh015c06a1	14354
SEQUENCE3359	cMhOh108c11a2	14355
SEQUENCE3360	cMhOh012g02a2	14356
SEQUENCE3362	cMhOh011c09a2	14357
SEQUENCE3377	cMhOi022d03a2	14358
SEQUENCE3379	cMhOi081b10a1	14359
SEQUENCE3380	cMhOi047c06a3	14360
SEQUENCE3381	cMhOi005e03a1	14361
SEQUENCE3384	cMhOi055h07a1	14362

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SEQUENCE3385	cMhOi023a12a2	14363
SEQUENCE3388	cMhOi043h11a3	14364
SEQUENCE3391	cMhOi013f08a1	14365
SEQUENCE3392	cMhOi007f01a1	14366
SEQUENCE3394	cMhOi026d09a1	14367
SEQUENCE3401	cMhOi012b06a1	14368
SEQUENCE3402	cMhOi014g05a1	14369
SEQUENCE3405	cMhOi003d09a1	14370
SEQUENCE3407	cMhOi017c11a1	14371
SEQUENCE3409	cMhOi057d01a1	14372
SEQUENCE3413	cMhOi019f03a1	14373
SEQUENCE3415	cMhOi047c07a3	14374
SEQUENCE3417	cMhOi005e08a1	14375
SEQUENCE3419	cMhOi028b01a1	14376
SEQUENCE3420	cMhOi034b11a1	14377
SEQUENCE3425	cMhOi044a04a1	14378
SEQUENCE3430	cMhOi029f05a1	14379
SEQUENCE3434	cMhOi041c10a2	14380
SEQUENCE3436	cMhOi012f09a1	14381
SEQUENCE3437	cMhOi009b09a1	14382
SEQUENCE3438	cMhOi003g08a1	14383
SEQUENCE3442	cMhOi060f03a2	14384
SEQUENCE3443	cMhOi041f10a2	14385
SEQUENCE3445	cMhOi036f09a2	14386
SEQUENCE3450	cMhOi021a01a1	14387
SEQUENCE3459	cMhOi079d02a1	14388
SEQUENCE3464	cMhOi005d01a1	14389
SEQUENCE3468	cMhOi023a05a2	14390
SEQUENCE3475	cMhOi031c12a1	14391
SEQUENCE3477	cMhOi029c12a1	14392
SEQUENCE3478	cMhOi077h08a1	14393
SEQUENCE3480	cMhOi070e06a1	14394
SEQUENCE3482	cMhOi055h12a1	14395
SEQUENCE3485	cMhOi014f01a1	14396
SEQUENCE3486	cMhOi026b01a1	14397
SEQUENCE3495	cMhOi068d09a1	14398
SEQUENCE3496	cMhOj058c10a1	14399
SEQUENCE3497	cMhOj056g09a1	14400
SEQUENCE3498	cMhOj102e04a1	14401
SEQUENCE3503	cMhOj099f07a1	14402
SEQUENCE3505	cMhOj003g09a2	14403
SEQUENCE3506	cMhOj074b06a1	14404
SEQUENCE3509	cMhOj043a10a1	14405
SEQUENCE3516	cMhOj064d04a1	14406
SEQUENCE3517	cMhOj039b05a1	14407
SEQUENCE3522	cMhOj088a10a1	14408
SEQUENCE3523	cMhOj088h08a1	14409
SEQUENCE3527	cMhOj109c08a1	14410
SEQUENCE3530	cMhOj017f03a1	14411
SEQUENCE3531	cMhOj062f04a1	14412
SEQUENCE3533	cMhOj018h06a1	14413
SEQUENCE3534	cMhOj107f12a1	14414
SEQUENCE3536	cMhOj078f09a1	14415

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SEQUENCE3538	cMhOj059a06a1	14416
SEQUENCE3540	cMhOj057a03a1	14417
SEQUENCE3541	cMhOj016e11a1	14418
SEQUENCE3544	cMhOj088b10a1	14419
SEQUENCE3548	cMhOj113b02a1	14420
SEQUENCE3549	cMhOj003c04a2	14421
SEQUENCE3555	cMhOj107h04a1	14422
SEQUENCE3558	cMhOj040h10a1	14423
SEQUENCE3559	cMhOj057e07a1	14424
SEQUENCE3564	cMhOj037h08a1	14425
SEQUENCE3566	cMhOj104h05a1	14426
SEQUENCE3567	cMhOj007c11a2	14427
SEQUENCE3575	cMhOj038e12a1	14428
SEQUENCE3581	cMhOj105c09a1	14429
SEQUENCE3585	cMhOj048g01a1	14430
SEQUENCE3589	cMhOj038h02a1	14431
SEQUENCE3591	cMhOj073e07a1	14432
SEQUENCE3598	cMhOj108g03a1	14433
SEQUENCE3599	cMhOj045c12a1	14434
SEQUENCE3604	cMhOj039a05a1	14435
SEQUENCE3605	cMhOj064b08a1	14436
SEQUENCE3607	cMhOj009c10a1	14437
SEQUENCE3608	cMhOj047b08a1	14438
SEQUENCE3615	cMhOj107d12a1	14439
SEQUENCE3617	cMhOj036d09a1	14440
SEQUENCE3619	cMhOj017a01a1	14441
SEQUENCE3629	cMhOj034e04a1	14442
SEQUENCE3631	cMhOj079e02a1	14443
SEQUENCE3637	cMhOj052a03a1	14444
SEQUENCE3641	cMhOj064d12a1	14445
SEQUENCE3642	cMhOj095g08a1	14446
SEQUENCE3649	cMhOj067e03a1	14447
SEQUENCE3651	cMhOj079g04a1	14448
SEQUENCE3658	cMhOj076a02a1	14449
SEQUENCE3661	cMhOj064g08a1	14450
SEQUENCE3663	cMhOj022d03a1	14451
SEQUENCE3667	cMhOj070f06a1	14452
SEQUENCE3668	cMhOj099g08a1	14453
SEQUENCE3670	cMhOj079h06a1	14454
SEQUENCE3671	cMhOj067h10a1	14455
SEQUENCE3674	cMhOj017g10a1	14456
SEQUENCE3678	cMhOj087b05a1	14457
SEQUENCE3680	cMhOj065b11a1	14458
SEQUENCE3681	cMhOj054f08a1	14459
SEQUENCE3682	cMhOj035a03a1	14460
SEQUENCE3683	cMhOj096e03a1	14461
SEQUENCE3687	cMhOj088g02a1	14462
SEQUENCE3688	cMhOj112d12a1	14463
SEQUENCE3689	cMhOj080a03a1	14464
SEQUENCE3695	cMhOj048f03a1	14465
SEQUENCE3701	cMhOj054h04a1	14466
SEQUENCE3706	cMhOj088g08a1	14467
SEQUENCE3709	cMhOj112f09a1	14468

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SEQUENCE3713	cMhOj042e04a1	14469
SEQUENCE3715	cMhOj061b01a1	14470
SEQUENCE3718	cMhOj077f06a1	14471
SEQUENCE3721	cMhOj102b03a1	14472
SEQUENCE3722	cMhOj056c04a1	14473
SEQUENCE3723	cMhOj108g09a1	14474
SEQUENCE3725	cMhOj090e11a1	14475
SEQUENCE3726	cMhOj098f10a1	14476
SEQUENCE3727	cMhOj072d10a1	14477
SEQUENCE3734	cMhOj061g05a1	14478
SEQUENCE3735	cMhOj043a02a1	14479
SEQUENCE3738	cMhOj095c05a1	14480
SEQUENCE3749	cMhOk098f07a1	14481
SEQUENCE3752	cMhOk051e09a2	14482
SEQUENCE3754	cMhOk014h11a1	14483
SEQUENCE3755	cMhOk099e08a1	14484
SEQUENCE3757	cMhOk003f05a3	14485
SEQUENCE3760	cMhOk005e04a2	14486
SEQUENCE3762	cMhOk068c07a3	14487
SEQUENCE3763	cMhOk087h09a1	14488
SEQUENCE3769	cMhOk076b09a1	14489
SEQUENCE3771	cMhOk039h10a1	14490
SEQUENCE3772	cMhOk108c11a2	14491
SEQUENCE3773	cMhOk092f07a1	14492
SEQUENCE3781	cMhOk047e04a2	14493
SEQUENCE3787	cMhOk087f03a1	14494
SEQUENCE3793	cMhOk095b06a1	14495
SEQUENCE3795	cMhOk080a11a1	14496
SEQUENCE3797	cMhOk096h04a1	14497
SEQUENCE3799	cMhOk091c06a1	14498
SEQUENCE3800	cMhOk048h03a2	14499
SEQUENCE3802	cMhOk099d05a1	14500
SEQUENCE3803	cMhOk095c02a1	14501
SEQUENCE3804	cMhOk002g08a2	14502
SEQUENCE3817	cMhOg038h12a1	14503
SEQUENCE3818	cMhOg022a09a1	14504
SEQUENCE3819	cMhOg020a01a1	14505
SEQUENCE3821	cMhOg008h07a1	14506
SEQUENCE3822	cMhOg024c05a1	14507
SEQUENCE3823	cMhOg040g01a1	14508
SEQUENCE3824	cMhOg019h06a1	14509
SEQUENCE3825	cMhOg011c05a1	14510
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SEQUENCE3829	cMhOg040h12a1	14512
SEQUENCE3830	cMhOg008h05a1	14513
SEQUENCE3831	cMhOg019a03a1	14514
SEQUENCE3834	cMhOg046f03a2	14515
SEQUENCE3836	cMhOg051f03a1	14516
SEQUENCE3837	cMhOg054e04a1	14517
SEQUENCE3840	cMhOg020d04a1	14518
SEQUENCE3842	cMhOg039d12a1	14519
SEQUENCE3843	cMhOg008b08a1	14520
SEQUENCE3844	cMhOg038c11a1	14521

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SEQUENCE3845	cMhOg052a07a1	14522
SEQUENCE3847	cMhOg009b05a1	14523
SEQUENCE3849	cMhOg024f04a1	14524
SEQUENCE3851	cMhOg006b08a1	14525
SEQUENCE3853	cMhOg050a04a1	14526
SEQUENCE3854	cMhOg024a03a1	14527
SEQUENCE3856	cMhOg041d01a1	14528
SEQUENCE3857	cMhOg032h10a1	14529
SEQUENCE3858	cMhOg019c09a1	14530
SEQUENCE3859	cMhOg050a06a1	14531
SEQUENCE3861	cMhOg008d01a1	14532
SEQUENCE3862	cMhOg051g08a1	14533
SEQUENCE3865	cMhOg015e01a1	14534
SEQUENCE3867	cMhOg001e11a2	14535
SEQUENCE3871	cMhOg020f09a1	14536
SEQUENCE3872	cMhOg023a08a1	14537
SEQUENCE3874	cMhOg051b04a1	14538
SEQUENCE3875	cMhOg052h07a1	14539
SEQUENCE3876	cMhOg009c05a1	14540
SEQUENCE3877	cMhOg038e09a1	14541
SEQUENCE3878	cMhOg031d11a1	14542
SEQUENCE3879	cMhOg021g04a1	14543
SEQUENCE3880	cMhOg043g06a1	14544
SEQUENCE3881	cMhOg034e10a1	14545
SEQUENCE3882	cMhOg041f06a1	14546
SEQUENCE3883	cMhOg033b10a1	14547
SEQUENCE3886	cMhOg054b06a1	14548
SEQUENCE3889	cMhOg021d03a1	14549
SEQUENCE3894	cMhOg054a01a1	14550
SEQUENCE3895	cMhOg010c12a1	14551
SEQUENCE3897	cMhOg008c04a1	14552
SEQUENCE3898	cMhOg053f11a1	14553
SEQUENCE3899	cMhOh129a11a2	14554
SEQUENCE3900	cMhOh025c02a1	14555
SEQUENCE3902	cMhOh014g09a1	14556
SEQUENCE3904	cMhOh039h06a1	14557
SEQUENCE3905	cMhOh001c07a2	14558
SEQUENCE3906	cMhOh090e03a2	14559
SEQUENCE3908	cMhOh106g01a2	14560
SEQUENCE3909	cMhOh126b08a2	14561
SEQUENCE3914	cMhOh091h03a2	14562
SEQUENCE3915	cMhOh116f03a2	14563
SEQUENCE3916	cMhOh106g10a2	14564
SEQUENCE3920	cMhOh019d12a1	14565
SEQUENCE3921	cMhOh073e03a1	14566
SEQUENCE3922	cMhOh052f02a2	14567
SEQUENCE3923	cMhOh110e01a2	14568
SEQUENCE3926	cMhOh092d02a2	14569
SEQUENCE3927	cMhOh001b07a2	14570
SEQUENCE3929	cMhOh034g06a1	14571
SEQUENCE3930	cMhOh106d08a2	14572
SEQUENCE3931	cMhOh114b03a2	14573
SEQUENCE3932	cMhOh076d07a1	14574

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SEQUENCE3933	cMhOh013g04a1	14575
SEQUENCE3936	cMhOh123d07a2	14576
SEQUENCE3939	cMhOh001b08a2	14577
SEQUENCE3942	cMhOh035d03a1	14578
SEQUENCE3943	cMhOh106d12a2	14579
SEQUENCE3945	cMhOh069c03a1	14580
SEQUENCE3946	cMhOh077e10a1	14581
SEQUENCE3947	cMhOh074c01a2	14582
SEQUENCE3948	cMhOh053b11a1	14583
SEQUENCE3950	cMhOh123e04a2	14584
SEQUENCE3952	cMhOh083c03a3	14585
SEQUENCE3953	cMhOh014c03a1	14586
SEQUENCE3954	cMhOh121c04a2	14587
SEQUENCE3955	cMhOh035d07a1	14588
SEQUENCE3956	cMhOh106f11a2	14589
SEQUENCE3957	cMhOh039d12a1	14590
SEQUENCE3958	cMhOh069f03a1	14591
SEQUENCE3959	cMhOh079e08a1	14592
SEQUENCE3960	cMhOh119h02a2	14593
SEQUENCE3961	cMhOh074c02a2	14594
SEQUENCE3962	cMhOh125e10a2	14595
SEQUENCE3964	cMhOh123e05a2	14596
SEQUENCE3965	cMhOh060h07a1	14597
SEQUENCE3971	cMhOh069f11a1	14598
SEQUENCE3972	cMhOh079g11a1	14599
SEQUENCE3974	cMhOh074h03a2	14600
SEQUENCE3976	cMhOh120a07a2	14601
SEQUENCE3977	cMhOh089g09a2	14602
SEQUENCE3978	cMhOh094d08a3	14603
SEQUENCE3979	cMhOh123h05a2	14604
SEQUENCE3980	cMhOh053e11a1	14605
SEQUENCE3981	cMhOh013a08a2	14606
SEQUENCE3982	cMhOh064a10a1	14607
SEQUENCE3983	cMhOh083f08a3	14608
SEQUENCE3986	cMhOh036b05a1	14609
SEQUENCE3987	cMhOh014h06a1	14610
SEQUENCE3988	cMhOh069h04a1	14611
SEQUENCE3989	cMhOh011g09a2	14612
SEQUENCE3992	cMhOh120a12a2	14613
SEQUENCE3994	cMhOh054a03a1	14614
SEQUENCE3995	cMhOh013b01a1	14615
SEQUENCE3996	cMhOh025c01a1	14616
SEQUENCE4000	cMhOh017f02a1	14617
SEQUENCE4002	cMhOh015d06a1	14618
SEQUENCE4005	cMhOh029h08a1	14619
SEQUENCE4007	cMhOh093b11a2	14620
SEQUENCE4008	cMhOh055b03a1	14621
SEQUENCE4009	cMhOh013f02a1	14622
SEQUENCE4011	cMhOh034e03a1	14623
SEQUENCE4015	cMhOh008e03a2	14624
SEQUENCE4016	cMhOh018a09a1	14625
SEQUENCE4020	cMhOh129e11a2	14626
SEQUENCE4021	cMhOh005f03a1	14627

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SEQUENCE4023	cMhOh100e06a2	14628
SEQUENCE4024	cMhOh093f06a2	14629
SEQUENCE4027	cMhOh059f02a2	14630
SEQUENCE4028	cMhOh038g10a1	14631
SEQUENCE4029	cMhOh081f04a1	14632
SEQUENCE4031	cMhOh018e06a1	14633
SEQUENCE4037	cMhOh005g04a1	14634
SEQUENCE4039	cMhOh104c02a2	14635
SEQUENCE4041	cMhOh094d02a3	14636
SEQUENCE4042	cMhOh019e01a2	14637
SEQUENCE4044	cMhOh119c02a2	14638
SEQUENCE4046	cMhOh131a12a3	14639
SEQUENCE4047	cMhOh045b01a2	14640
SEQUENCE4048	cMhOh031a09a2	14641
SEQUENCE4051	cMhOh128b10a2	14642
SEQUENCE4052	cMhOh113a07a2	14643
SEQUENCE4055	cMhOh131d08a3	14644
SEQUENCE4056	cMhOh048c01a1	14645
SEQUENCE4058	cMhOh031d10a2	14646
SEQUENCE4061	cMhOh128c01a2	14647
SEQUENCE4063	cMhOh113c01a2	14648
SEQUENCE4067	cMhOh131g07a3	14649
SEQUENCE4068	cMhOh052e09a2	14650
SEQUENCE4069	cMhOh110d06a2	14651
SEQUENCE4074	cMhOi034h11a1	14652
SEQUENCE4075	cMhOi074b09a1	14653
SEQUENCE4077	cMhOi068h07a1	14654
SEQUENCE4079	cMhOi046h12a1	14655
SEQUENCE4080	cMhOi017c04a1	14656
SEQUENCE4083	cMhOi038b10a2	14657
SEQUENCE4085	cMhOi028b07a1	14658
SEQUENCE4086	cMhOi071c06a1	14659
SEQUENCE4088	cMhOi009g11a1	14660
SEQUENCE4089	cMhOi013c06a1	14661
SEQUENCE4090	cMhOi055g03a1	14662
SEQUENCE4093	cMhOi045h11a1	14663
SEQUENCE4095	cMhOi027e07a1	14664
SEQUENCE4097	cMhOi035e07a1	14665
SEQUENCE4098	cMhOi077d05a1	14666
SEQUENCE4099	cMhOi007d06a1	14667
SEQUENCE4100	cMhOi069f01a1	14668
SEQUENCE4105	cMhOi031g04a1	14669
SEQUENCE4108	cMhOi071d02a1	14670
SEQUENCE4109	cMhOi072b01a1	14671
SEQUENCE4111	cMhOi010e08a1	14672
SEQUENCE4113	cMhOi013g12a1	14673
SEQUENCE4114	cMhOi056f04a1	14674
SEQUENCE4115	cMhOi040d08a2	14675
SEQUENCE4116	cMhOi029c03a1	14676
SEQUENCE4120	cMhOi009a02a1	14677
SEQUENCE4121	cMhOi001h10a1	14678
SEQUENCE4123	cMhOi077g05a1	14679
SEQUENCE4126	cMhOi012d05a1	14680

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SEQUENCE4128	cMhOi047d07a3	14681
SEQUENCE4130	cMhOi060a10a2	14682
SEQUENCE4131	cMhOi045c07a1	14683
SEQUENCE4132	cMhOi031h10a1	14684
SEQUENCE4134	cMhOi072f11a1	14685
SEQUENCE4135	cMhOi071e05a1	14686
SEQUENCE4136	cMhOi068c04a1	14687
SEQUENCE4137	cMhOi022c02a2	14688
SEQUENCE4138	cMhOi014g07a1	14689
SEQUENCE4142	cMhOi037h08a1	14690
SEQUENCE4145	cMhOi071c01a1	14691
SEQUENCE4146	cMhOi072a03a1	14692
SEQUENCE4147	cMhOi009f05a1	14693
SEQUENCE4148	cMhOi081e04a1	14694
SEQUENCE4149	cMhOi055f06a1	14695
SEQUENCE4151	cMhOi004g01a1	14696
SEQUENCE4153	cMhOi078d12a1	14697
SEQUENCE4156	cMhOi012g12a1	14698
SEQUENCE4157	cMhOi025f06a2	14699
SEQUENCE4159	cMhOj092a07a1	14700
SEQUENCE4161	cMhOj061g09a1	14701
SEQUENCE4162	cMhOj088a05a1	14702
SEQUENCE4163	cMhOj090a04a1	14703
SEQUENCE4165	cMhOj037d10a1	14704
SEQUENCE4168	cMhOj067b06a1	14705
SEQUENCE4172	cMhOj068e01a1	14706
SEQUENCE4177	cMhOj088a12a1	14707
SEQUENCE4178	cMhOj049g05a1	14708
SEQUENCE4181	cMhOj037e05a1	14709
SEQUENCE4183	cMhOj084b06a1	14710
SEQUENCE4184	cMhOj079b10a1	14711
SEQUENCE4187	cMhOj068e07a1	14712
SEQUENCE4188	cMhOj048e11a1	14713
SEQUENCE4190	cMhOj007b03a2	14714
SEQUENCE4191	cMhOj058h03a1	14715
SEQUENCE4192	cMhOj113c01a1	14716
SEQUENCE4195	cMhOj093g10a1	14717
SEQUENCE4198	cMhOj073c04a1	14718
SEQUENCE4200	cMhOj072c10a1	14719
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SEQUENCE4202	cMhOj056e02a1	14721
SEQUENCE4204	cMhOj082a02a1	14722
SEQUENCE4205	cMhOj067c11a1	14723
SEQUENCE4206	cMhOj069b02a1	14724
SEQUENCE4212	cMhOj093h07a1	14725
SEQUENCE4215	cMhOj073f06a1	14726
SEQUENCE4217	cMhOj072c11a1	14727
SEQUENCE4218	cMhOj076a05a1	14728
SEQUENCE4221	cMhOj083a08a1	14729
SEQUENCE4223	cMhOj069c05a1	14730
SEQUENCE4228	cMhOj113c10a1	14731
SEQUENCE4229	cMhOj109f04a1	14732
SEQUENCE4231	cMhOj003c02a2	14733

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SEQUENCE4232	cMhOj062a03a1	14734
SEQUENCE4235	cMhOj056f12a1	14735
SEQUENCE4239	cMhOj038h11a1	14736
SEQUENCE4246	cMhOj113d01a1	14737
SEQUENCE4250	cMhOj052c12a1	14738
SEQUENCE4258	cMhOj023f11a1	14739
SEQUENCE4263	cMhOj072d04a1	14740
SEQUENCE4264	cMhOj111h09a1	14741
SEQUENCE4266	cMhOj052e03a1	14742
SEQUENCE4267	cMhOj083e09a1	14743
SEQUENCE4270	cMhOj088a01a1	14744
SEQUENCE4272	cMhOj072b07a1	14745
SEQUENCE4277	cMhOj094d10a1	14746
SEQUENCE4278	cMhOj102g02a1	14747
SEQUENCE4280	cMhOj070e08a1	14748
SEQUENCE4284	cMhOj074f12a1	14749
SEQUENCE4285	cMhOj052g10a1	14750
SEQUENCE4286	cMhOj056c01a1	14751
SEQUENCE4288	cMhOj043a03a1	14752
SEQUENCE4290	cMhOj039g02a1	14753
SEQUENCE4291	cMhOj046b05a1	14754
SEQUENCE4292	cMhOj099e08a1	14755
SEQUENCE4294	cMhOj018b11a1	14756
SEQUENCE4296	cMhOj102g06a1	14757
SEQUENCE4298	cMhOj070g04a1	14758
SEQUENCE4299	cMhOj076f07a1	14759
SEQUENCE4303	cMhOj075b02a1	14760
SEQUENCE4304	cMhOj053b04a1	14761
SEQUENCE4306	cMhOj108g02a1	14762
SEQUENCE4310	cMhOj099f04a1	14763
SEQUENCE4312	cMhOj104e12a1	14764
SEQUENCE4313	cMhOj035h08a1	14765
SEQUENCE4314	cMhOj072c07a1	14766
SEQUENCE4315	cMhOj096d09a1	14767
SEQUENCE4317	cMhOj077b05a1	14768
SEQUENCE4319	cMhOj053b05a1	14769
SEQUENCE4320	cMhOj086a09a1	14770
SEQUENCE4321	cMhOj045b12a1	14771
SEQUENCE4323	cMhOj041g01a1	14772
SEQUENCE4324	cMhOj047d01a1	14773
SEQUENCE4327	cMhOj099h02a1	14774
SEQUENCE4330	cMhOj105c02a1	14775
SEQUENCE4331	cMhOj079f09a1	14776
SEQUENCE4332	cMhOj054e05a1	14777
SEQUENCE4334	cMhOj065f03a1	14778
SEQUENCE4336	cMhOj049g09a1	14779
SEQUENCE4340	cMhOj107b10a1	14780
SEQUENCE4341	cMhOj067d11a1	14781
SEQUENCE4346	cMhOj105c11a1	14782
SEQUENCE4349	cMhOj036h08a1	14783
SEQUENCE4351	cMhOj054e11a1	14784
SEQUENCE4355	cMhOj049h02a1	14785
SEQUENCE4360	cMhOj049b06a1	14786

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SEQUENCE4363	cMhOj091c01a1	14787
SEQUENCE4368	cMhOj054f05a1	14788
SEQUENCE4369	cMhOj018h11a1	14789
SEQUENCE4370	cMhOj066h12a1	14790
SEQUENCE4371	cMhOj007a04a2	14791
SEQUENCE4376	cMhOj049f10a1	14792
SEQUENCE4379	cMhOj061d08a1	14793
SEQUENCE4386	cMhOj007a10a2	14794
SEQUENCE4387	cMhOj022f12a1	14795
SEQUENCE4388	cMhOj108a03a1	14796
SEQUENCE4390	cMhOj046a08a1	14797
SEQUENCE4392	cMhOk081d11a1	14798
SEQUENCE4393	cMhOk016g03a1	14799
SEQUENCE4398	cMhOk045b09a2	14800
SEQUENCE4399	cMhOk073c06a1	14801
SEQUENCE4400	cMhOk090g11a1	14802
SEQUENCE4403	cMhOk082c03a1	14803
SEQUENCE4404	cMhOk088f05a1	14804
SEQUENCE4406	cMhOk092g06a1	14805
SEQUENCE4407	cMhOk054e01a1	14806
SEQUENCE4409	cMhOk045c12a2	14807
SEQUENCE4412	cMhOk100h10a1	14808
SEQUENCE4415	cMhOk018f07a2	14809
SEQUENCE4416	cMhOk029d07a1	14810
SEQUENCE4417	cMhOk097a01a1	14811
SEQUENCE4426	cMhOk086c03a1	14812
SEQUENCE4427	cMhOk021d05a1	14813
SEQUENCE4428	cMhOk030h07a5	14814
SEQUENCE4431	cMhOk056a12a3	14815
SEQUENCE4432	cMhOk071g09a2	14816
SEQUENCE4434	cMhOk072h06a1	14817
SEQUENCE4438	cMhOg001h12a2	14818
SEQUENCE4439	cMhOg046f02a2	14819
SEQUENCE4440	cMhOg048d06a1	14820
SEQUENCE4441	cMhOg045f03a1	14821
SEQUENCE4442	cMhOg051f11a1	14822
SEQUENCE4447	cMhOh084b12a1	14823
SEQUENCE4449	cMhOh072a09a1	14824
SEQUENCE4452	cMhOh117e08a3	14825
SEQUENCE4461	cMhOj067b05a1	14826
SEQUENCE4466	cMhOj112g02a1	14827
SEQUENCE4472	cMhOk003g01a3	14828
SEQUENCE4474	cMhOg010d12a1	14829
SEQUENCE4475	cMhOg010g06a1	14830
SEQUENCE4476	cMhOg001d11a2	14831
SEQUENCE4478	cMhOg009b01a1	14832
SEQUENCE4480	cMhOg031c03a1	14833
SEQUENCE4482	cMhOg010e05a1	14834
SEQUENCE4483	cMhOg033a08a1	14835
SEQUENCE4493	cMhOg043e01a1	14836
SEQUENCE4494	cMhOg031e05a1	14837
SEQUENCE4496	cMhOg033b06a1	14838
SEQUENCE4498	cMhOg011a06a1	14839

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SEQUENCE4499	cMhOg006a05a1	14840
SEQUENCE4500	cMhOg032g12a1	14841
SEQUENCE4502	cMhOg054c06a1	14842
SEQUENCE4506	cMhOg001g05a2	14843
SEQUENCE4507	cMhOg043e08a1	14844
SEQUENCE4508	cMhOg031g04a1	14845
SEQUENCE4513	cMhOg020h11a1	14846
SEQUENCE4514	cMhOg033h01a1	14847
SEQUENCE4515	cMhOg054c07a1	14848
SEQUENCE4517	cMhOg002g04a2	14849
SEQUENCE4518	cMhOg022h01a1	14850
SEQUENCE4519	cMhOg010c06a1	14851
SEQUENCE4520	cMhOg024d07a1	14852
SEQUENCE4521	cMhOg043h11a1	14853
SEQUENCE4524	cMhOg041a03a1	14854
SEQUENCE4525	cMhOg049g09a1	14855
SEQUENCE4528	cMhOg015c10a1	14856
SEQUENCE4532	cMhOg039b12a1	14857
SEQUENCE4535	cMhOg010d01a1	14858
SEQUENCE4539	cMhOg048a02a1	14859
SEQUENCE4540	cMhOg050d12a1	14860
SEQUENCE4541	cMhOg041a06a1	14861
SEQUENCE4542	cMhOg050b05a1	14862
SEQUENCE4543	cMhOg051g09a1	14863
SEQUENCE4549	cMhOg046h04a2	14864
SEQUENCE4550	cMhOg044h12a1	14865
SEQUENCE4553	cMhOg023a06a1	14866
SEQUENCE4554	cMhOg002d08a2	14867
SEQUENCE4555	cMhOg053g10a1	14868
SEQUENCE4556	cMhOg044d03a1	14869
SEQUENCE4558	cMhOg003b02a2	14870
SEQUENCE4560	cMhOg041c04a1	14871
SEQUENCE4561	cMhOg039c11a1	14872
SEQUENCE4562	cMhOg051g11a1	14873
SEQUENCE4563	cMhOg054f07a1	14874
SEQUENCE4565	cMhOg034c04a1	14875
SEQUENCE4569	cMhOg053c12a1	14876
SEQUENCE4571	cMhOg054b02a1	14877
SEQUENCE4572	cMhOg050g03a1	14878
SEQUENCE4577	cMhOg008b10a1	14879
SEQUENCE4578	cMhOg034c06a1	14880
SEQUENCE4579	cMhOg039g09a1	14881
SEQUENCE4582	cMhOg009h02a1	14882
SEQUENCE4585	cMhOg051a11a1	14883
SEQUENCE4591	cMhOg018h04a1	14884
SEQUENCE4592	cMhOg020g09a1	14885
SEQUENCE4593	cMhOg054c05a1	14886
SEQUENCE4598	cMhOg015g05a1	14887
SEQUENCE4600	cMhOg005a04a1	14888
SEQUENCE4604	cMhOg041d04a1	14889
SEQUENCE4607	cMhOg003c07a2	14890
SEQUENCE4608	cMhOg019b05a1	14891
SEQUENCE4609	cMhOg010e10a1	14892

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SEQUENCE4611	cMhOg033g12a1	14893
SEQUENCE4612	cMhOg008f08a1	14894
SEQUENCE4613	cMhOg034f03a1	14895
SEQUENCE4614	cMhOg024b04a1	14896
SEQUENCE4617	cMhOg038a08a1	14897
SEQUENCE4619	cMhOg005e07a1	14898
SEQUENCE4621	cMhOg050d02a1	14899
SEQUENCE4623	cMhOg003g05a2	14900
SEQUENCE4624	cMhOg019c11a1	14901
SEQUENCE4625	cMhOg033b07a1	14902
SEQUENCE4630	cMhOg046c12a2	14903
SEQUENCE4631	cMhOg043d08a1	14904
SEQUENCE4632	cMhOg011b07a1	14905
SEQUENCE4635	cMhOg044g08a1	14906
SEQUENCE4636	cMhOg003g09a2	14907
SEQUENCE4637	cMhOg010f06a1	14908
SEQUENCE4644	cMhOg052f07a1	14909
SEQUENCE4646	cMhOg046f12a2	14910
SEQUENCE4648	cMhOg034f06a1	14911
SEQUENCE4649	cMhOg011d07a1	14912
SEQUENCE4651	cMhOg024f06a1	14913
SEQUENCE4652	cMhOg003g10a2	14914
SEQUENCE4653	cMhOg019g05a1	14915
SEQUENCE4658	cMhOg040d01a1	14916
SEQUENCE4659	cMhOg021a07a1	14917
SEQUENCE4663	cMhOg051c06a1	14918
SEQUENCE4664	cMhOg024h05a1	14919
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SEQUENCE4666	cMhOg010g01a1	14921
SEQUENCE4672	cMhOg013c01a1	14922
SEQUENCE4674	cMhOg031b04a1	14923
SEQUENCE4679	cMhOh081a09a1	14924
SEQUENCE4681	cMhOh041c02a1	14925
SEQUENCE4683	cMhOh086g08a2	14926
SEQUENCE4685	cMhOh082d09a3	14927
SEQUENCE4686	cMhOh076a08a1	14928
SEQUENCE4687	cMhOh013e07a1	14929
SEQUENCE4689	cMhOh096a12a2	14930
SEQUENCE4690	cMhOh016e12a1	14931
SEQUENCE4691	cMhOh098f03a2	14932
SEQUENCE4692	cMhOh106f06a2	14933
SEQUENCE4693	cMhOh015f08a2	14934
SEQUENCE4696	cMhOh079c03a1	14935
SEQUENCE4702	cMhOh118g02a2	14936
SEQUENCE4705	cMhOh014e11a1	14937
SEQUENCE4706	cMhOh126g06a2	14938
SEQUENCE4707	cMhOh060a07a1	14939
SEQUENCE4709	cMhOh094a10a3	14940
SEQUENCE4713	cMhOh036f01a1	14941
SEQUENCE4714	cMhOh030e11a1	14942
SEQUENCE4716	cMhOh115b12a2	14943
SEQUENCE4719	cMhOh129h06a2	14944
SEQUENCE4723	cMhOh084h03a1	14945

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SEQUENCE4724	cMhOh024a04a1	14946
SEQUENCE4727	cMhOh089a09a2	14947
SEQUENCE4731	cMhOh114a04a2	14948
SEQUENCE4732	cMhOh127c05a2	14949
SEQUENCE4736	cMhOh127g12a2	14950
SEQUENCE4741	cMhOh077d05a1	14951
SEQUENCE4744	cMhOh057e10a1	14952
SEQUENCE4747	cMhOh102g10a2	14953
SEQUENCE4748	cMhOh013b03a1	14954
SEQUENCE4749	cMhOh123f11a2	14955
SEQUENCE4751	cMhOh080e06a1	14956
SEQUENCE4759	cMhOh005a02a1	14957
SEQUENCE4760	cMhOh011a11a1	14958
SEQUENCE4761	cMhOh054a01a1	14959
SEQUENCE4763	cMhOh020c01a1	14960
SEQUENCE4769	cMhOh094f12a3	14961
SEQUENCE4772	cMhOh069h10a1	14962
SEQUENCE4774	cMhOh011g06a2	14963
SEQUENCE4775	cMhOh108d12a2	14964
SEQUENCE4777	cMhOh049g04a3	14965
SEQUENCE4779	cMhOh022a01a1	14966
SEQUENCE4784	cMhOh044c10a2	14967
SEQUENCE4785	cMhOh012b04a2	14968
SEQUENCE4786	cMhOh109b01a2	14969
SEQUENCE4788	cMhOh078f03a1	14970
SEQUENCE4790	cMhOh092d01a2	14971
SEQUENCE4791	cMhOh073d01a3	14972
SEQUENCE4793	cMhOh048b06a1	14973
SEQUENCE4794	cMhOh048h12a1	14974
SEQUENCE4795	cMhOh002d01a1	14975
SEQUENCE4797	cMhOh100e09a2	14976
SEQUENCE4800	cMhOh126d03a2	14977
SEQUENCE4804	cMhOh023d05a2	14978
SEQUENCE4805	cMhOh073a05a3	14979
SEQUENCE4807	cMhOh076d12a1	14980
SEQUENCE4808	cMhOh014a07a1	14981
SEQUENCE4812	cMhOh114f09a2	14982
SEQUENCE4814	cMhOh015a08a1	14983
SEQUENCE4815	cMhOh056c12a1	14984
SEQUENCE4816	cMhOh011e07a2	14985
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SEQUENCE4821	cMhOh073g08a3	14988
SEQUENCE4824	cMhOh048f10a1	14989
SEQUENCE4826	cMhOh118c01a2	14990
SEQUENCE4830	cMhOh091h12a2	14991
SEQUENCE4835	cMhOh076b11a1	14992
SEQUENCE4838	cMhOh125b07a2	14993
SEQUENCE4839	cMhOh017a06a1	14994
SEQUENCE4840	cMhOh098h08a2	14995
SEQUENCE4841	cMhOh015f09a2	14996
SEQUENCE4843	cMhOh057h08a1	14997
SEQUENCE4845	cMhOh079d05a1	14998

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SEQUENCE4854	cMhOh118g03a2	14999
SEQUENCE4856	cMhOh113d08a2	15000
SEQUENCE4859	cMhOh014g11a2	15001
SEQUENCE4860	cMhOh126g07a2	15002
SEQUENCE4861	cMhOh060d04a1	15003
SEQUENCE4864	cMhOh094a11a3	15004
SEQUENCE4865	cMhOh001f08a2	15005
SEQUENCE4868	cMhOh019d04a1	15006
SEQUENCE4870	cMhOh036f07a1	15007
SEQUENCE4871	cMhOh030e12a1	15008
SEQUENCE4874	cMhOh117d04a3	15009
SEQUENCE4875	cMhOh131a02a3	15010
SEQUENCE4876	cMhOh069a05a1	15011
SEQUENCE4877	cMhOh114c07a2	15012
SEQUENCE4878	cMhOh084h10a1	15013
SEQUENCE4879	cMhOh024b05a1	15014
SEQUENCE4888	cMhOh053c02a1	15015
SEQUENCE4892	cMhOh127d01a2	15016
SEQUENCE4893	cMhOh048a02a1	15017
SEQUENCE4896	cMhOh052e05a2	15018
SEQUENCE4897	cMhOh060g09a1	15019
SEQUENCE4915	cMhOh040a02a1	15020
SEQUENCE4918	cMhOh095e06a2	15021
SEQUENCE4920	cMhOh012c11a2	15022
SEQUENCE4921	cMhOh128f06a2	15023
SEQUENCE4929	cMhOh023e11a2	15024
SEQUENCE4935	cMhOh072a04a3	15025
SEQUENCE4936	cMhOh073c09a3	15026
SEQUENCE4940	cMhOh093e09a2	15027
SEQUENCE4941	cMhOh012e04a2	15028
SEQUENCE4947	cMhOh044d02a2	15029
SEQUENCE4948	cMhOh034e04a1	15030
SEQUENCE4953	cMhOh073d06a3	15031
SEQUENCE4957	cMhOh100g04a2	15032
SEQUENCE4958	cMhOh116f10a2	15033
SEQUENCE4959	cMhOh068d01a1	15034
SEQUENCE4964	cMhOh029f10a1	15035
SEQUENCE4965	cMhOh020b12a1	15036
SEQUENCE4966	cMhOh023d11a2	15037
SEQUENCE4972	cMhOh081e03a1	15038
SEQUENCE4977	cMhOh056d10a1	15039
SEQUENCE4979	cMhOh074a06a2	15040
SEQUENCE4981	cMhOh113f02a2	15041
SEQUENCE4985	cMhOh026g10a1	15042
SEQUENCE4987	cMhOh092a06a2	15043
SEQUENCE4988	cMhOh041d09a1	15044
SEQUENCE5001	cMhOh120b05a2	15045
SEQUENCE5003	cMhOh022d06a2	15046
SEQUENCE5005	cMhOh088f01a2	15047
SEQUENCE5006	cMhOh118h08a2	15048
SEQUENCE5007	cMhOh087f08a2	15049
SEQUENCE5011	cMhOh021e05a1	15050
SEQUENCE5014	cMhOh053d06a1	15051

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SEQUENCE5018	cMhOh109e06a2	15052
SEQUENCE5023	cMhOh057g07a1	15053
SEQUENCE5024	cMhOh069a11a1	15054
SEQUENCE5026	cMhOh114d03a2	15055
SEQUENCE5028	cMhOh086e03a2	15056
SEQUENCE5029	cMhOh024b06a1	15057
SEQUENCE5033	cMhOh095f02a2	15058
SEQUENCE5039	cMhOh078b07a1	15059
SEQUENCE5041	cMhOh011c11a1	15060
SEQUENCE5043	cMhOh131c01a3	15061
SEQUENCE5046	cMhOh064a02a1	15062
SEQUENCE5047	cMhOh054g06a1	15063
SEQUENCE5049	cMhOh072f06a1	15064
SEQUENCE5050	cMhOh048e07a1	15065
SEQUENCE5051	cMhOh001f06a2	15066
SEQUENCE5056	cMhOh089d07a2	15067
SEQUENCE5059	cMhOh030c01a1	15068
SEQUENCE5061	cMhOh074g06a2	15069
SEQUENCE5062	cMhOh015d12a2	15070
SEQUENCE5064	cMhOh117a07a3	15071
SEQUENCE5067	cMhOh011c01a2	15072
SEQUENCE5070	cMhOh023g02a2	15073
SEQUENCE5076	cMhOh082a07a3	15074
SEQUENCE5079	cMhOh012e08a2	15075
SEQUENCE5084	cMhOh057c12a1	15076
SEQUENCE5085	cMhOh045b09a2	15077
SEQUENCE5086	cMhOh034e11a1	15078
SEQUENCE5095	cMhOh116g08a2	15079
SEQUENCE5096	cMhOh068e03a1	15080
SEQUENCE5097	cMhOh123f01a2	15081
SEQUENCE5100	cMhOh029f12a1	15082
SEQUENCE5101	cMhOh078e01a1	15083
SEQUENCE5107	cMhOh015a11a2	15084
SEQUENCE5110	cMhOh019f10a1	15085
SEQUENCE5112	cMhOh107a07a2	15086
SEQUENCE5114	cMhOh057a06a1	15087
SEQUENCE5119	cMhOh021g12a1	15088
SEQUENCE5121	cMhOh119a12a2	15089
SEQUENCE5122	cMhOh131b07a3	15090
SEQUENCE5124	cMhOh074b07a2	15091
SEQUENCE5130	cMhOh031g08a2	15092
SEQUENCE5136	cMhOh129b10a2	15093
SEQUENCE5137	cMhOh087e09a2	15094
SEQUENCE5140	cMhOh125f06a2	15095
SEQUENCE5147	cMhOh108c09a2	15096
SEQUENCE5152	cMhOh019a02a2	15097
SEQUENCE5154	cMhOh105b06a2	15098
SEQUENCE5156	cMhOh045e06a2	15099
SEQUENCE5158	cMhOh055f02a1	15100
SEQUENCE5162	cMhOh109h01a2	15101
SEQUENCE5163	cMhOh073e04a1	15102
SEQUENCE5168	cMhOh114e09a2	15103
SEQUENCE5173	cMhOh075e11a2	15104

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SEQUENCE5176	cMhOh124f08a2	15105
SEQUENCE5177	cMhOh116f01a2	15106
SEQUENCE5179	cMhOh015f08a1	15107
SEQUENCE5182	cMhOh011d04a1	15108
SEQUENCE5183	cMhOh121c02a2	15109
SEQUENCE5184	cMhOh131c12a3	15110
SEQUENCE5185	cMhOh088c08a2	15111
SEQUENCE5187	cMhOh064b04a1	15112
SEQUENCE5191	cMhOh022d07a2	15113
SEQUENCE5193	cMhOh089f03a2	15114
SEQUENCE5194	cMhOh057e11a1	15115
SEQUENCE5197	cMhOh041a10a1	15116
SEQUENCE5198	cMhOh035e09a1	15117
SEQUENCE5199	cMhOh030e02a1	15118
SEQUENCE5204	cMhOh128g03a2	15119
SEQUENCE5209	cMhOh089a06a2	15120
SEQUENCE5210	cMhOh023h10a2	15121
SEQUENCE5211	cMhOh110e03a2	15122
SEQUENCE5215	cMhOh014a12a2	15123
SEQUENCE5216	cMhOh012g03a2	15124
SEQUENCE5217	cMhOh045f08a2	15125
SEQUENCE5223	cMhOh129g10a2	15126
SEQUENCE5225	cMhOh102f05a2	15127
SEQUENCE5229	cMhOh017e09a2	15128
SEQUENCE5230	cMhOh115f09a2	15129
SEQUENCE5235	cMhOh029g09a1	15130
SEQUENCE5236	cMhOh095c01a2	15131
SEQUENCE5238	cMhOh128e09a2	15132
SEQUENCE5240	cMhOh053e03a1	15133
SEQUENCE5241	cMhOh038g06a1	15134
SEQUENCE5245	cMhOh064d02a1	15135
SEQUENCE5247	cMhOh107c07a2	15136
SEQUENCE5252	cMhOh021h02a1	15137
SEQUENCE5254	cMhOh119d09a2	15138
SEQUENCE5256	cMhOh074c09a2	15139
SEQUENCE5257	cMhOh065b06a1	15140
SEQUENCE5260	cMhOh031h12a2	15141
SEQUENCE5261	cMhOh078e10a1	15142
SEQUENCE5263	cMhOh092a12a2	15143
SEQUENCE5264	cMhOh048a10a1	15144
SEQUENCE5269	cMhOh126b11a2	15145
SEQUENCE5272	cMhOh090e07a2	15146
SEQUENCE5273	cMhOh034f06a1	15147
SEQUENCE5279	cMhOh072h04a1	15148
SEQUENCE5280	cMhOh082f02a3	15149
SEQUENCE5287	cMhOh106h03a2	15150
SEQUENCE5288	cMhOh105b07a2	15151
SEQUENCE5291	cMhOh009g06a1	15152
SEQUENCE5293	cMhOh042b08a2	15153
SEQUENCE5295	cMhOh076h08a1	15154
SEQUENCE5298	cMhOh110e07a2	15155
SEQUENCE5300	cMhOh020g04a1	15156
SEQUENCE5301	cMhOh048f05a1	15157

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SEQUENCE5305	cMhOi031f10a1	15158
SEQUENCE5307	cMhOi068f10a1	15159
SEQUENCE5309	cMhOi074h04a1	15160
SEQUENCE5311	cMhOi034a09a1	15161
SEQUENCE5312	cMhOi075d12a2	15162
SEQUENCE5313	cMhOi013e06a1	15163
SEQUENCE5318	cMhOi025e07a2	15164
SEQUENCE5325	cMhOi038e11a2	15165
SEQUENCE5326	cMhOi032b07a1	15166
SEQUENCE5329	cMhOi027h05a1	15167
SEQUENCE5330	cMhOi037b07a1	15168
SEQUENCE5332	cMhOi027g06a1	15169
SEQUENCE5333	cMhOi045b04a1	15170
SEQUENCE5339	cMhOi069c09a1	15171
SEQUENCE5340	cMhOi044g04a1	15172
SEQUENCE5341	cMhOi069e12a1	15173
SEQUENCE5342	cMhOi014e07a1	15174
SEQUENCE5346	cMhOi035h10a1	15175
SEQUENCE5348	cMhOi014d10a1	15176
SEQUENCE5353	cMhOi035f02a1	15177
SEQUENCE5354	cMhOi077g07a1	15178
SEQUENCE5355	cMhOi014d07a1	15179
SEQUENCE5356	cMhOi034h03a1	15180
SEQUENCE5357	cMhOi077d01a1	15181
SEQUENCE5360	cMhOi008b05a1	15182
SEQUENCE5364	cMhOi045d08a1	15183
SEQUENCE5366	cMhOi060a09a2	15184
SEQUENCE5369	cMhOi008f10a1	15185
SEQUENCE5372	cMhOi056f08a1	15186
SEQUENCE5373	cMhOi070a12a1	15187
SEQUENCE5374	cMhOi008e05a1	15188
SEQUENCE5375	cMhOi039d04a2	15189
SEQUENCE5376	cMhOi056d06a1	15190
SEQUENCE5378	cMhOi069h03a1	15191
SEQUENCE5382	cMhOi046e07a1	15192
SEQUENCE5384	cMhOi036b02a2	15193
SEQUENCE5385	cMhOi028f12a1	15194
SEQUENCE5388	cMhOi020b12a1	15195
SEQUENCE5389	cMhOi045g07a1	15196
SEQUENCE5391	cMhOi005h07a1	15197
SEQUENCE5394	cMhOi054a02a1	15198
SEQUENCE5396	cMhOi079a11a1	15199
SEQUENCE5397	cMhOi004e08a1	15200
SEQUENCE5398	cMhOi049f03a1	15201
SEQUENCE5399	cMhOi002d03a1	15202
SEQUENCE5400	cMhOi078h12a1	15203
SEQUENCE5404	cMhOi001a03a1	15204
SEQUENCE5408	cMhOi001b03a1	15205
SEQUENCE5409	cMhOi047b11a3	15206
SEQUENCE5411	cMhOi072a08a1	15207
SEQUENCE5413	cMhOi007h07a1	15208
SEQUENCE5414	cMhOi023e01a2	15209
SEQUENCE5418	cMhOi017d09a1	15210

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SEQUENCE5420	cMhOi007c08a1	15211
SEQUENCE5422	cMhOi071b10a1	15212
SEQUENCE5425	cMhOi015c08a1	15213
SEQUENCE5426	cMhOi008b07a1	15214
SEQUENCE5427	cMhOi070g12a1	15215
SEQUENCE5428	cMhOi022f03a2	15216
SEQUENCE5429	cMhOi080b04a1	15217
SEQUENCE5433	cMhOi013d09a1	15218
SEQUENCE5434	cMhOi040h12a2	15219
SEQUENCE5435	cMhOi024e07a2	15220
SEQUENCE5437	cMhOi040c07a2	15221
SEQUENCE5438	cMhOi042c10a1	15222
SEQUENCE5444	cMhOi068c03a1	15223
SEQUENCE5445	cMhOi080f10a1	15224
SEQUENCE5446	cMhOi055h03a1	15225
SEQUENCE5448	cMhOi007a01a1	15226
SEQUENCE5449	cMhOi067h05a1	15227
SEQUENCE5451	cMhOi055f04a1	15228
SEQUENCE5452	cMhOi030d05a1	15229
SEQUENCE5453	cMhOi054f03a1	15230
SEQUENCE5454	cMhOi060g05a2	15231
SEQUENCE5455	cMhOi055b07a1	15232
SEQUENCE5457	cMhOi054b06a1	15233
SEQUENCE5461	cMhOi041f04a2	15234
SEQUENCE5462	cMhOi025d11a2	15235
SEQUENCE5464	cMhOi019c06a1	15236
SEQUENCE5467	cMhOi017g03a1	15237
SEQUENCE5469	cMhOi017d10a1	15238
SEQUENCE5471	cMhOi012h10a1	15239
SEQUENCE5473	cMhOi073b01a1	15240
SEQUENCE5476	cMhOi031h06a1	15241
SEQUENCE5477	cMhOi043d11a3	15242
SEQUENCE5478	cMhOi041h05a2	15243
SEQUENCE5479	cMhOi031g03a1	15244
SEQUENCE5482	cMhOi031f01a1	15245
SEQUENCE5484	cMhOi014a06a1	15246
SEQUENCE5486	cMhOi075e02a2	15247
SEQUENCE5490	cMhOi013e04a1	15248
SEQUENCE5491	cMhOi025e12a2	15249
SEQUENCE5492	cMhOi033g03a1	15250
SEQUENCE5493	cMhOi039d01a2	15251
SEQUENCE5496	cMhOi032c02a1	15252
SEQUENCE5502	cMhOi037e08a1	15253
SEQUENCE5504	cMhOi027g08a1	15254
SEQUENCE5506	cMhOi075b02a2	15255
SEQUENCE5507	cMhOi026e05a1	15256
SEQUENCE5508	cMhOi045a01a1	15257
SEQUENCE5512	cMhOi042a10a1	15258
SEQUENCE5517	cMhOi035h03a1	15259
SEQUENCE5518	cMhOi078c06a1	15260
SEQUENCE5521	cMhOi035d01a1	15261
SEQUENCE5531	cMhOi045d09a1	15262
SEQUENCE5534	cMhOi034c05a1	15263

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SEQUENCE5535	cMhOi009a08a1	15264
SEQUENCE5536	cMhOi045c05a1	15265
SEQUENCE5537	cMhOi043f06a3	15266
SEQUENCE5538	cMhOi056h02a1	15267
SEQUENCE5539	cMhOi070b09a1	15268
SEQUENCE5540	cMhOi008f01a1	15269
SEQUENCE5542	cMhOi056e11a1	15270
SEQUENCE5545	cMhOi036b07a2	15271
SEQUENCE5547	cMhOi036b03a2	15272
SEQUENCE5551	cMhOi021d03a1	15273
SEQUENCE5557	cMhOi069e03a1	15274
SEQUENCE5560	cMhOi004f02a1	15275
SEQUENCE5561	cMhOi049g10a1	15276
SEQUENCE5562	cMhOi002f05a1	15277
SEQUENCE5564	cMhOi004a10a1	15278
SEQUENCE5565	cMhOi049e06a1	15279
SEQUENCE5566	cMhOi001g12a1	15280
SEQUENCE5568	cMhOi003g11a1	15281
SEQUENCE5571	cMhOi072b03a1	15282
SEQUENCE5573	cMhOi007h11a1	15283
SEQUENCE5574	cMhOi023e05a2	15284
SEQUENCE5576	cMhOi021e06a1	15285
SEQUENCE5580	cMhOi023c01a2	15286
SEQUENCE5581	cMhOi071f06a1	15287
SEQUENCE5582	cMhOi010b09a1	15288
SEQUENCE5585	cMhOi071b03a1	15289
SEQUENCE5588	cMhOi014g02a1	15290
SEQUENCE5593	cMhOi024h02a2	15291
SEQUENCE5596	cMhOi042d09a1	15292
SEQUENCE5597	cMhOi024c08a2	15293
SEQUENCE5599	cMhOi081a03a1	15294
SEQUENCE5601	cMhOi031c07a1	15295
SEQUENCE5602	cMhOi068f03a1	15296
SEQUENCE5603	cMhOi040a06a2	15297
SEQUENCE5605	cMhOi030g02a1	15298
SEQUENCE5606	cMhOi068b10a1	15299
SEQUENCE5608	cMhOi055g08a1	15300
SEQUENCE5609	cMhOi030d11a1	15301
SEQUENCE5610	cMhOi006d10a1	15302
SEQUENCE5615	cMhOi054b08a1	15303
SEQUENCE5616	cMhOi074b08a1	15304
SEQUENCE5618	cMhOi026a03a1	15305
SEQUENCE5620	cMhOi025e05a2	15306
SEQUENCE5623	cMhOi009h05a1	15307
SEQUENCE5624	cMhOi025b11a2	15308
SEQUENCE5625	cMhOi019a03a1	15309
SEQUENCE5627	cMhOi021f03a1	15310
SEQUENCE5628	cMhOi017e05a1	15311
SEQUENCE5629	cMhOi036g11a2	15312
SEQUENCE5631	cMhOi073b04a1	15313
SEQUENCE5632	cMhOi012g10a1	15314
SEQUENCE5635	cMhOi072c11a1	15315
SEQUENCE5636	cMhOi008a02a1	15316

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SEQUENCE5640	cMhOj096c02a1	15317
SEQUENCE5642	cMhOj059c08a1	15318
SEQUENCE5644	cMhOj100g07a1	15319
SEQUENCE5649	cMhOj066f12a1	15320
SEQUENCE5650	cMhOj109b11a1	15321
SEQUENCE5654	cMhOj061c10a1	15322
SEQUENCE5660	cMhOj098d04a1	15323
SEQUENCE5663	cMhOj052d11a1	15324
SEQUENCE5665	cMhOj094e09a1	15325
SEQUENCE5666	cMhOj084d09a1	15326
SEQUENCE5668	cMhOj077c05a1	15327
SEQUENCE5674	cMhOj045b10a1	15328
SEQUENCE5677	cMhOj073h03a1	15329
SEQUENCE5678	cMhOj060e01a1	15330
SEQUENCE5680	cMhOj093h08a1	15331
SEQUENCE5681	cMhOj095b12a1	15332
SEQUENCE5683	cMhOj034c07a1	15333
SEQUENCE5685	cMhOj013f11a1	15334
SEQUENCE5695	cMhOj043c04a1	15335
SEQUENCE5699	cMhOj049c05a1	15336
SEQUENCE5700	cMhOj107h05a1	15337
SEQUENCE5702	cMhOj063g09a1	15338
SEQUENCE5705	cMhOj060d04a1	15339
SEQUENCE5706	cMhOj085h08a1	15340
SEQUENCE5707	cMhOj060g12a1	15341
SEQUENCE5714	cMhOj074e09a1	15342
SEQUENCE5716	cMhOj072b11a1	15343
SEQUENCE5722	cMhOj043c01a1	15344
SEQUENCE5725	cMhOj052g09a1	15345
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SEQUENCE5729	cMhOj093b04a1	15347
SEQUENCE5730	cMhOj022g07a1	15348
SEQUENCE5733	cMhOj049e10a1	15349
SEQUENCE5734	cMhOj007g01a1	15350
SEQUENCE5743	cMhOj075d08a1	15351
SEQUENCE5744	cMhOj088f02a1	15352
SEQUENCE5745	cMhOj054d05a1	15353
SEQUENCE5752	cMhOj100d08a1	15354
SEQUENCE5758	cMhOj081f03a1	15355
SEQUENCE5759	cMhOj085d10a1	15356
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SEQUENCE5764	cMhOj041e02a1	15358
SEQUENCE5765	cMhOj054c04a1	15359
SEQUENCE5767	cMhOj091d07a1	15360
SEQUENCE5768	cMhOj059d02a1	15361
SEQUENCE5771	cMhOj067c02a1	15362
SEQUENCE5773	cMhOj046f08a1	15363
SEQUENCE5774	cMhOj054a03a1	15364
SEQUENCE5775	cMhOj087e12a1	15365
SEQUENCE5778	cMhOj098g05a1	15366
SEQUENCE5779	cMhOj091h06a1	15367
SEQUENCE5780	cMhOj109a03a1	15368
SEQUENCE5782	cMhOj098d07a1	15369

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SEQUENCE5783	cMhOj107b06a1	15370
SEQUENCE5784	cMhOj102c09a1	15371
SEQUENCE5785	cMhOj052g01a1	15372
SEQUENCE5786	cMhOj037g12a1	15373
SEQUENCE5791	cMhOj076g05a1	15374
SEQUENCE5794	cMhOj036c03a1	15375
SEQUENCE5795	cMhOj040h11a1	15376
SEQUENCE5796	cMhOj084c06a1	15377
SEQUENCE5799	cMhOj060e03a1	15378
SEQUENCE5803	cMhOj061a11a1	15379
SEQUENCE5805	cMhOj095d07a1	15380
SEQUENCE5809	cMhOj071e03a1	15381
SEQUENCE5812	cMhOj065b06a1	15382
SEQUENCE5814	cMhOj040c08a1	15383
SEQUENCE5816	cMhOj043d04a1	15384
SEQUENCE5819	cMhOj108a05a1	15385
SEQUENCE5822	cMhOj105e12a1	15386
SEQUENCE5823	cMhOj111g09a1	15387
SEQUENCE5825	cMhOj086c01a1	15388
SEQUENCE5830	cMhOj059a09a1	15389
SEQUENCE5833	cMhOj035a07a1	15390
SEQUENCE5834	cMhOj074e11a1	15391
SEQUENCE5839	cMhOj077c09a1	15392
SEQUENCE5841	cMhOj075e04a1	15393
SEQUENCE5844	cMhOj043c02a1	15394
SEQUENCE5845	cMhOj013b10a1	15395
SEQUENCE5848	cMhOj068a01a1	15396
SEQUENCE5850	cMhOj046e09a1	15397
SEQUENCE5851	cMhOj098a04a1	15398
SEQUENCE5854	cMhOj056c07a1	15399
SEQUENCE5858	cMhOj046c08a1	15400
SEQUENCE5862	cMhOj048e12a1	15401
SEQUENCE5865	cMhOj085g07a1	15402
SEQUENCE5869	cMhOj007h12a2	15403
SEQUENCE5870	cMhOj046a09a1	15404
SEQUENCE5873	cMhOj083d08a1	15405
SEQUENCE5874	cMhOj003c08a2	15406
SEQUENCE5876	cMhOj060b09a1	15407
SEQUENCE5879	cMhOj089a10a1	15408
SEQUENCE5880	cMhOj043a07a1	15409
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SEQUENCE5884	cMhOj099e03a1	15411
SEQUENCE5887	cMhOj100d11a1	15412
SEQUENCE5889	cMhOj101a02a1	15413
SEQUENCE5892	cMhOj081f04a1	15414
SEQUENCE5896	cMhOj045g05a1	15415
SEQUENCE5897	cMhOj043h04a1	15416
SEQUENCE5901	cMhOj102g05a1	15417
SEQUENCE5906	cMhOj075f12a1	15418
SEQUENCE5910	cMhOj070c10a1	15419
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SEQUENCE5919	cMhOj101g01a1	15421
SEQUENCE5924	cMhOj098d10a1	15422

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SEQUENCE5941	cMhOj084c01a1	15427
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SEQUENCE5952	cMhOj081b07a1	15430
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SEQUENCE5959	cMhOj108a12a1	15433
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SEQUENCE6067	cMhOj060a07a1	15474
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SEQUENCE6224	cMhOk084b03a1	15542
SEQUENCE6227	cMhOk076e06a1	15543
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SEQUENCE6233	cMhOk055h07a2	15545
SEQUENCE6234	cMhOk090c12a1	15546
SEQUENCE6235	cMhOk042b12a2	15547
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SEQUENCE6239	cMhOk098d12a1	15549
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SEQUENCE6292	cMhOk088g06a1	15567
SEQUENCE6293	cMhOk097f02a1	15568
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SEQUENCE6301	cMhOk062a12a3	15572
SEQUENCE6305	cMhOk037h04a2	15573
SEQUENCE6309	cMhOk052a09a2	15574
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SEQUENCE6315	cMhOk047b04a2	15576
SEQUENCE6321	cMhOk014a09a1	15577
SEQUENCE6323	cMhOk038a08a2	15578
SEQUENCE6327	cMhOk052a10a2	15579
SEQUENCE6329	cMhOk098a01a1	15580
SEQUENCE6333	cMhOk080f07a1	15581

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SEQUENCE6354	cMhOk052g07a2	15586
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SEQUENCE6357	cMhOk030d04a5	15589
SEQUENCE6365	cMhOk039f07a1	15590
SEQUENCE6366	cMhOk037b03a2	15591
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SEQUENCE6394	cMhOk069h09a2	15597
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SEQUENCE266	fohOc008g03s1,	15604
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SEQUENCE1684	johOa010h04t2,	15619
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SEQUENCE1767	johOa029f08t1,	15624
SEQUENCE1814	johOa053a03t1,	15625
SEQUENCE1962	johOb023e10t1,	15626
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SEQUENCE2809	johOf088d03a1,	15628
SEQUENCE3072	cbhdd014e01b1,	15629
SEQUENCE3382	cMhOi027g01a1,	15630
SEQUENCE3650	cMhOj075d01a1,	15631
SEQUENCE3692	cMhOj041g03a1,	15632
SEQUENCE4241	cMhOj069c10a1,	15633
SEQUENCE4410	cMhOk078g04a1,	15634

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SEQUENCE4894	cMhOh088b02a2,	15635
SEQUENCE5126	cMhqse010h07a1,	15636
SEQUENCE5202	cMhOh106d10a2,	15637
SEQUENCE5637	cMhOi031h05a1,	15638
SEQUENCE5675	cMhOj072a07a1,	15639
SEQUENCE1	johOa001a01t2	15640 phred calls

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 01/09126

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N15/12 C07K14/47 C12Q1/68 C07K16/18 G01N33/68
G01N33/574 //A61P15/08,35/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
BIOSIS, EPO-Internal, WPI Data, PAJ, SEQUENCE SEARCH

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EBI [Online] Hinxton, UK; 17 March 1999 (1999-03-17) Database accession no. AI494514; XP002188635 See nucleotides 1-277 ---	1-4
X	DATABASE EBI [Online] Hinxton, UK; 3 August 1999 (1999-08-03) Database accession no. AI934649 XP002188636 See nucleotides: 3-274 ---	1-4
A	DATABASE EBI [Online] Hinxton, UK; 14 February 2000 (2000-02-14) ABOLA ET AL.: Database accession no. AC023176 XP002188634 See nucleotides: 37515-37990 --- -/--	1-4

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
31 January 2002	08. 05. 2002

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Aslund, J

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 01 54472 A (HUMAN GENOME SCIENCES INC ;ROSEN CRAIG A (US); BARASH STEVEN C (US) 2 August 2001 (2001-08-02) Seq Id 23220 -& DATABASE EBI [Online] Hinxton, UK; 6 November 2001 (2001-11-06) Database accession no. AAK68408 XP002188671	1-4
A	WO 00 04149 A (CORIXA CORP) 27 January 2000 (2000-01-27) the whole document	5-66
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A	WANG K ET AL: "Monitoring gene expression profile changes in ovarian carcinomas using cDNA microarray" GENE, ELSEVIER BIOMEDICAL PRESS. AMSTERDAM, NL, vol. 229, no. 1-2, 18 March 1999 (1999-03-18), pages 101-108, XP004161163 ISSN: 0378-1119 the whole document	
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 01/09126

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. [X] Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 45, 54-56 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

2. [ ] Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. [ ] Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. [ ] As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. [ ] As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. [ ] As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. [X] No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

claims 1-66 partly

Remark on Protest

[ ] The additional search fees were accompanied by the applicant's protest.

[ ] No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: Claims 1-66 partly

An isolated nucleic acid molecule comprising the nucleotide sequence shown in SEQ.ID.No. 1 of Table 1; a vector and host comprising said nucleic acid; an isolated peptide encoded by said nucleic acid; an antibody which binds to said polypeptide; a method for producing said polypeptide; a method for detecting said polypeptide or said nucleic acid and their use in the diagnosis and treatment of ovarian cancer and for the screening of compounds which inhibit ovarian cancer.

Inventions 2-15640: Claims 1-66 partly

Idem invention 1, but for SEQ.ID.No. 2 to 15640 respectively, as set forth in Tables 1,2,3, wherein each sequence represents an individual invention, i.e. invention 2 relates to SEQ.ID.No.2,through to invention 15640 representing SEQ.ID.No.15640 based on the numbering given in Table 3.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inter[redacted]nal Application No
PCT/US 01/09126

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Information on patent family members

International Application No
PCT/US 01/09126

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